



**DMX Protocol Map**

LuxBeam RGB / LuxBeam P12

Appendix I

Macro

Appendix II

GEL Filter

| MODE 1      |  | CCT 8 Bit - 5 CH   |  |
|-------------|--|--|--|
| DMX Channel | DMX Value  | Range  | Function   |
| 1           | 0-51<br>51-102<br>102-153<br>153-204<br>204-255          | 0-20%<br>20-40%<br>40-60%<br>60-80%<br>80-100%                                   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392   |
| 2           | 0-255  | 2700-10000K  | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+DMX_value *28.627<br><br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
| 3           | 0-20<br>21-30<br>31-129<br>130-140<br>141-240<br>241-255 | 0<br>Full Magenta(100%)<br>Magenta(99%-1%)<br>0%<br>Green(1%-99%)<br>Green(100%) | <b>Green / Magenta</b>   |
| 4           | 0-9<br>10-45<br>46-255                                   | N/A<br>10°-45°<br>N/A  | <b>Zoom Lens Angle 10°-45°</b>   |
| 5           | 0-20<br>21-40<br>41-60<br>61-80<br>81-100<br>101-255     | N/A<br>Low speed<br>Medium speed<br>High speed<br>Temperature control<br>N/A     | <b>Fan Speed</b>   |

| MODE 2      |           | CCT 16 Bit - 8 CH |   |
|-------------|-----------|-------------------|---|
| DMX Channel | DMX Value | Range             | Function  |
| 1           | 0-65535   | 0-100%            | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value /655.35                                 |
| 2           |           |                   |   |
| 3           | 0-65535   | 2700-10000K       | <b>Color Temperature</b><br>Closed - Open<br>Formular: Color Temperature<br>=2700+DMX_value*0.11139 |
| 4           |           |                   |   |

|   |  |  |                                |
|---|--|--|--------------------------------|
| 5 | 0-5000<br>5000-10000<br>10001-29999                  | 0%<br>Full Magenta(100%)<br>Magenta(99%-1%)                                  | <b>Green / Magenta</b>         |
| 6 | 30000-40000<br>40001-59999<br>60000-65535            | 0%<br>Green(1%-99%)<br>Green(100%)   |                                |
| 7 | 0-9<br>10-45<br>46-255                               | N/A<br>10°-45°<br>N/A  | <b>Zoom Lens Angle 10°-45°</b> |
| 8 | 0-20<br>21-40<br>41-60<br>61-80<br>81-100<br>101-255 | N/A<br>Low speed<br>Medium speed<br>High speed<br>Temperature control<br>N/A | <b>Fan Speed</b>               |

|               |                         |
|---------------|-------------------------|
| <b>MODE 3</b> | <b>HSI 8 Bit - 5 CH</b> |
|---------------|-------------------------|

| DMX Channel | DMX Value  | Range  | Function  |
|-------------|--|--|---|
| 1           | 0-51<br>51-102<br>102-153<br>153-204<br>204-255      | 0-20%<br>20-40%<br>40-60%<br>60-80%<br>80-100%                               | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value * 0.392     |
| 2           | 0-255  | 0-360  | <b>Hue</b><br>Closed - Open<br>Formular: HUE = DMX_value * 1.4118       |
| 3           | 0-255  | 0-100%   | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value * 0.392 |
| 4           | 0-9<br>10-45<br>46-255                               | N/A<br>10°-45°<br>N/A  | <b>Zoom Lens Angle 10°-45°</b>  |
| 5           | 0-20<br>20-40<br>40-60<br>60-80<br>80-100<br>100-255 | N/A<br>Low speed<br>Medium speed<br>High speed<br>Temperature control<br>N/A | <b>Fan Speed</b>  |

|               |                          |
|---------------|--------------------------|
| <b>MODE 4</b> | <b>HSI 16 Bit - 8 CH</b> |
|---------------|--------------------------|

| DMX Channel | DMX Value              | Range                 | Function   |
|-------------|------------------------|-----------------------|--|
| 1           | 0-65535                | 0-100%                | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value / 655.35     |
| 2           |                        |                       |  |
| 3           | 0-65535                | 0-360                 | <b>Hue</b><br>Closed - Open<br>Formular: HUE = DMX_value * 0.005493      |
| 4           |                        |                       |  |
| 5           | 0-65535                | 0-100%                | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value / 655.35 |
| 6           |                        |                       |  |
| 7           | 0-9<br>10-45<br>46-255 | N/A<br>10°-45°<br>N/A | <b>Zoom Lens Angle 10°-45°</b>   |

|   |  |  |           |
|---|--|--|-----------|
| 8 | 0-20<br>21-40<br>41-60<br>61-80<br>81-100<br>101-255 | N/A<br>Low speed<br>Medium speed<br>High speed<br>Temperature control<br>N/A | Fan Speed |
|---|--|--|-----------|

**MODE 5 XY 8 Bit - 5 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |
| 2           | 0-255     | X*255   | <b>X Coordinate</b><br>Formular: X = DMX_value /255                |
| 3           | 0-255     | Y*255   | <b>Y Coordinate</b><br>Formular: Y = DMX_value /255                |
| 4           | 0-9       | N/A     | <b>Zoom Lens Angle 10°-45°</b>                                     |
|             | 10-45     | 10°-45° |  |
|             | 46-255    | N/A     |  |
| 5           | 0-20      | 0-20%   | <b>Fan Speed</b>   |
|             | 20-40     | 20-40%  |  |
|             | 40-60     | 40-60%  |  |
|             | 60-80     | 60-80%  |  |
|             | 80-100    | 80-100% |  |
|             | 100-255   | 100%    |  |

**MODE 6 XY 16 Bit - 8 CH**

| DMX Channel | DMX Value | Range               | Function   |
|-------------|-----------|---------------------|--|
| 1           | 0-65535   | 0-100%              | <b>Dimmer XY</b><br>Closed – Open<br>Formular: per = DMX_value /655.35 |
| 2           |           |                     |  |
| 3           |           |                     |  |
| 4           | 0-65535   | X*65535             | <b>X Coordinate</b><br>Formular: X = DMX_value /65535                  |
| 5           |           |                     |  |
| 6           | 0-65535   | Y*65535             | <b>Y Coordinate</b><br>Formular: Y = DMX_value /65535                  |
| 7           | 0-9       | N/A                 | <b>Zoom Lens Angle 10°-45°</b>   |
|             | 10-45     | 10°-45°             |  |
|             | 46-255    | N/A                 |  |
| 8           | 0-20      | N/A                 | <b>Fan Speed</b>   |
|             | 21-40     | Low speed           |  |
|             | 41-60     | Medium speed        |  |
|             | 61-80     | High speed          |  |
|             | 81-100    | Temperature control |  |
|             | 101-255   | N/A                 |  |

**MODE 7 RGBWW 8 Bit - 7 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |
| 2           | 0-255     | 0-100%  | <b>Red</b><br>Formular: per = DMX_value *0.392                     |
| 3           | 0-255     | 0-100%  | <b>Green</b><br>Formular: per = DMX_value *0.392                   |

|   |  |  |   |
|---|--|--|---|
| 4 | 0-255  | 0-100%   | <b>Blue</b><br>Formular: per = DMX_value *0.392       |
| 5 | 0-255  | 0-100%   | <b>Warm White</b><br>Formular: per = DMX_value *0.392 |
| 6 | 0-9<br>10-45<br>46-255                               | N/A<br>10°-45°<br>N/A  | <b>Zoom Lens Angle 10°-45°</b>                        |
| 7 | 0-20<br>21-40<br>41-60<br>61-80<br>81-100<br>101-255 | N/A<br>Low speed<br>Medium speed<br>High speed<br>Temperature control<br>N/A | <b>Fan Speed</b>                                      |

|               |                             |
|---------------|-----------------------------|
| <b>MODE 8</b> | <b>RGBWW 16 Bit - 12 CH</b> |
|---------------|-----------------------------|

| DMX Channel | DMX Value  | Range  | Function   |
|-------------|--|--|--|
| 1           | 0-65535  | 0-100%   | <b>Dimmer</b><br>Closed - Open                         |
| 2           |  |  | Formular: per = DMX_value /655.35                      |
| 3           | 0-65535  | 0-100%   | <b>Red</b><br>Formular: per = DMX_value /655.35        |
| 4           |  |  |  |
| 5           | 0-65535  | 0-100%   | <b>Green</b><br>Formular: per = DMX_value /655.35      |
| 6           |  |  |  |
| 7           | 0-65535  | 0-100%   | <b>Blue</b><br>Formular: per = DMX_value /655.35       |
| 8           |  |  |  |
| 9           | 0-65535  | 0-100%   | <b>Warm White</b><br>Formular: per = DMX_value /655.35 |
| 10          |  |  |  |
| 11          | 0-9<br>10-45<br>46-255                               | N/A<br>10°-45°<br>N/A  | <b>Zoom Lens Angle 10°-45°</b>                         |
| 12          | 0-20<br>21-40<br>41-60<br>61-80<br>81-100<br>101-255 | N/A<br>Low speed<br>Medium speed<br>High speed<br>Temperature control<br>N/A | <b>Fan Speed</b>                                       |

|               |                         |
|---------------|-------------------------|
| <b>MODE 9</b> | <b>GEL 8 Bit - 6 CH</b> |
|---------------|-------------------------|

| DMX Channel | DMX Value                                       | Range  | Function  |
|-------------|---|--|---|
| 1           | 0-51<br>51-102<br>102-153<br>153-204<br>204-255 | 0-20%<br>20-40%<br>40-60%<br>60-80%<br>80-100% | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392          |
| 2           | 0-127<br>128-255                                | 3200K<br>5600K                                 | <b>3200K</b><br><b>5600K</b>  |
| 3           | 0-127<br>128-255                                | Group I<br>Group II                            | <b>Select Group I</b><br><b>Select Group II</b>                             |
| 4           | 0-121<br>0-190                                  | 1-122<br>123-313                               | <b>GEL Filter Number in Group I</b><br><b>GEL Filter Number in Group II</b> |
| 5           | 0-9<br>10-45<br>46-255                          | N/A<br>10°-45°<br>N/A                          | <b>Zoom Lens Angle 10°-45°</b>  |

|   |         |                     |                  |
|---|---------|---------------------|------------------|
| 6 | 0-20    | N/A                 | <b>Fan Speed</b> |
|   | 21-40   | Low speed           |                  |
|   | 41-60   | Medium speed        |                  |
|   | 61-80   | High speed          |                  |
|   | 81-100  | Temperature control |                  |
|   | 101-255 | N/A                 |                  |

**MODE 10 CCT+RGBWW 8 Bit - 10 CH**

| DMX Channel | DMX Value | Range               | Function  |
|-------------|-----------|---------------------|---|
| 1           | 0-51      | 0-20%               | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value * 0.392   |
|             | 51-102    | 20-40%              |   |
|             | 102-153   | 40-60%              |   |
|             | 153-204   | 60-80%              |   |
|             | 204-255   | 80-100%             |   |
| 2           | 0-255     | 2700-10000K         | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+DMX_value * 28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
| 3           | 0-20      | 0%                  | <b>Green / Magenta</b>  |
|             | 21-30     | Full Magenta(100%)  |   |
|             | 31-129    | Magenta(99%-1%)     |   |
|             | 130-140   | 0%                  |   |
|             | 141-240   | Green(1%-99%)       |   |
|             | 241-255   | Green(100%)         |   |
| 4           | 0-255     | 0-100%              | <b>Crossfade</b><br>Formular: per = DMX_value * 0.392   |
| 5           | 0-255     | 0-100%              | <b>Red</b><br>Formular: per = DMX_value * 0.392   |
| 6           | 0-255     | 0-100%              | <b>Green</b><br>Formular: per = DMX_value * 0.392   |
| 7           | 0-255     | 0-100%              | <b>Blue</b><br>Formular: per = DMX_value * 0.392  |
| 8           | 0-255     | 0-100%              | <b>Warm White</b><br>Formular: per = DMX_value * 0.392  |
| 9           | 0-9       | N/A                 | <b>Zoom Lens Angle 10°-45°</b>  |
|             | 10-45     | 10°-45°             |   |
|             | 46-255    | N/A                 |   |
| 10          | 0-20      | N/A                 | <b>Fan Speed</b>  |
|             | 21-40     | Low speed           |   |
|             | 41-60     | Medium speed        |   |
|             | 61-80     | High speed          |   |
|             | 81-100    | Temperature control |   |
|             | 101-255   | N/A                 |   |

| MODE 11 CCT+RGBWW 16 Bit - 18 CH |             |                     |  |
|----------------------------------|-------------|---------------------|--|
| DMX Channel                      | DMX Value   | Range               | Function   |
| 1                                | 0-65535     | 0-100%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value /655.35                                      |
| 2                                |             |                     |  |
| 3                                | 0-65535     | 2700-10000K         | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+<br>DMX_value*0.11139 |
| 4                                |             |                     |  |
| 5                                | 0-5000      | 0%                  | <b>Green / Magenta</b>   |
|                                  | 5001-10000  | Full Magenta(100%)  |  |
|                                  | 10001-29999 | Magenta(99%-1%)     |  |
| 6                                | 30000-40000 | 0%                  |  |
|                                  | 40001-59999 | Green(1%-99%)       |  |
|                                  | 60000-65535 | Green(100%)         |  |
| 7                                | 0-65535     | 0-100%              | <b>Crossfade</b><br>Formular: per = DMX_value /655.35  |
| 8                                |             |                     |  |
| 9                                | 0-65535     | 0-100%              | <b>Red</b><br>Formular: per = DMX_value /655.35  |
| 10                               |             |                     |  |
| 11                               | 0-65535     | 0-100%              | <b>Green</b><br>Formular: per = DMX_value /655.35  |
| 12                               |             |                     |  |
| 13                               | 0-65535     | 0-100%              | <b>Blue</b><br>Formular: per = DMX_value /655.35   |
| 14                               |             |                     |  |
| 15                               | 0-65535     | 0-100%              | <b>Warm White</b><br>Formular: per = DMX_value /655.35   |
| 16                               |             |                     |  |
| 17                               | 0-9         | N/A                 | <b>Zoom Lens Angle 10°-45°</b>   |
|                                  | 10-45       | 10°-45°             |  |
|                                  | 46-255      | N/A                 |  |
| 18                               | 0-20        | N/A                 | <b>Fan Speed</b>   |
|                                  | 21-40       | Low speed           |  |
|                                  | 41-60       | Medium speed        |  |
|                                  | 61-80       | High speed          |  |
|                                  | 81-100      | Temperature control |  |
|                                  | 101-255     | N/A                 |  |

| MODE 12 CCT+HSI 8 Bit - 8 CH |           |             |   |
|------------------------------|-----------|-------------|---|
| DMX Channel                  | DMX Value | Range       | Function  |
| 1                            | 0-51      | 0-20%       | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392  |
|                              | 51-102    | 20-40%      |   |
|                              | 102-153   | 40-60%      |   |
|                              | 153-204   | 60-80%      |   |
|                              | 204-255   | 80-100%     |   |
| 2                            | 0-255     | 2700-10000K | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+DMX_value<br>*28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |

|   |         |                     |  |
|---|---------|---------------------|--|
| 3 | 0-20    | 0%                  | <b>Green / Magenta</b>   |
|   | 21-30   | Full Magenta(100%)  |  |
|   | 31-129  | Magenta(99%-1%)     |  |
|   | 130-140 | 0%                  |  |
|   | 141-240 | Green(1%-99%)       |  |
|   | 241-255 | Green(100%)         |  |
| 4 | 0-255   | 0-100%              | <b>Crossfade</b><br>Formular: per = DMX_value *0.392                   |
| 5 | 0-255   | 0-360               | <b>HUE</b><br>Formular: HUE = DMX_value *1.4118                        |
| 6 | 0-255   | 0-100%              | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
| 7 | 0-9     | N/A                 | <b>Zoom Lens Angle 10°-45°</b>   |
|   | 10-45   | 10°-45°             |  |
|   | 46-255  | N/A                 |  |
| 8 | 0-20    | N/A                 | <b>Fan Speed</b>   |
|   | 21-40   | Low speed           |  |
|   | 41-60   | Medium speed        |  |
|   | 61-80   | High speed          |  |
|   | 81-100  | Temperature control |  |
|   | 101-255 | N/A                 |  |

| MODE 13 CCT+HSI 16 Bit - 14 CH |             |                    |  |
|--------------------------------|-------------|--------------------|--|
| DMX Channel                    | DMX Value   | Range              | Function   |
| 1                              | 0-65535     | 0-100%             | <b>Dimmer</b><br>Closed – Open<br>Formular: per = DMX_value /655.35                                      |
| 2                              |             |                    |  |
| 3                              | 0-65535     | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+<br>DMX_value*0.11139 |
| 4                              |             |                    |  |
| 5                              | 0-5000      | 0%                 | <b>Green / Magenta</b>   |
|                                | 5001-10000  | Full Magenta(100%) |  |
|                                | 10001-29999 | Magenta(99%-1%)    |  |
| 6                              | 30000-40000 | 0%                 | <b>Green / Magenta</b>   |
|                                | 40001-59999 | Green(1%-99%)      |  |
|                                | 60000-65535 | Green(100%)        |  |
| 7                              | 0-65535     | 0-100%             | <b>Crossfade</b><br>Formular: per = DMX_value /655.35  |
| 8                              |             |                    |  |
| 9                              | 0-65535     | 0-360              | <b>HUE</b><br>Formular: HUE = DMX_value *0.005493  |
| 10                             |             |                    |  |
| 11                             | 0-65535     | 0-100%             | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value /655.35                                  |
| 12                             |             |                    |  |
| 13                             | 0-9         | N/A                | <b>Zoom Lens Angle 10°-45°</b>   |
|                                | 10-45       | 10°-45°            |  |
|                                | 46-255      | N/A                |  |

|    |         |                     |                  |
|----|---------|---------------------|------------------|
| 14 | 0-20    | N/A                 | <b>Fan Speed</b> |
|    | 21-40   | Low speed           |                  |
|    | 41-60   | Medium speed        |                  |
|    | 61-80   | High speed          |                  |
|    | 81-100  | Temperature control |                  |
|    | 101-255 | N/A                 |                  |

**MODE 14 CCT+XY 8 Bit - 8 CH**

| DMX Channel | DMX Value | Range               | Function  |
|-------------|-----------|---------------------|---|
| 1           | 0-51      | 0-20%               | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392  |
|             | 51-102    | 20-40%              |   |
|             | 102-153   | 40-60%              |   |
|             | 153-204   | 60-80%              |   |
|             | 204-255   | 80-100%             |   |
| 2           | 0-255     | 2700-10000K         | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+DMX_value *28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255 --> 10000K |
| 3           | 0-20      | 0%                  | <b>Green / Magenta</b>  |
|             | 21-30     | Full Magenta(100%)  |   |
|             | 31-129    | Magenta(99%-1%)     |   |
|             | 130-140   | 0%                  |   |
|             | 141-240   | Green(1%-99%)       |   |
|             | 241-255   | Green(100%)         |   |
| 4           | 0-255     | 0-100%              | <b>Crossfade</b><br>Formular: per = DMX_value *0.392  |
| 5           | 0-255     | X*255               | <b>X Coordinate</b><br>Formular: X = DMX_value /255   |
| 6           | 0-255     | Y*255               | <b>Y Coordinate</b><br>Formular: Y = DMX_value /255   |
| 7           | 0-9       | N/A                 | <b>Zoom Lens Angle 10°-45°</b>  |
|             | 10-45     | 10°-45°             |   |
|             | 46-255    | N/A                 |   |
| 8           | 0-20      | N/A                 | <b>Fan Speed</b>  |
|             | 21-40     | Low speed           |   |
|             | 41-60     | Medium speed        |   |
|             | 61-80     | High speed          |   |
|             | 81-100    | Temperature control |   |
|             | 101-255   | N/A                 |   |

**MODE 15 CCT+XY 16 Bit - 14 CH**

| DMX Channel | DMX Value | Range       | Function   |
|-------------|-----------|-------------|--|
| 1           | 0-65535   | 0-100%      | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value /655.35                                      |
| 2           |           |             |  |
| 3           | 0-65535   | 2700-10000K | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+<br>DMX_value*0.11139 |
| 4           |           |             |  |



|    |             |                     |                                   |
|----|-------------|---------------------|-----------------------------------|
| 5  | 0-5000      | 0-100%              | <b>Green / Magenta</b>            |
|    | 5001-10000  | 0-100%              |                                   |
|    | 10001-29999 | 0-100%              |                                   |
| 6  | 30000-40000 | 0%                  |                                   |
|    | 40001-59999 | 0-100%              |                                   |
|    | 60000-65535 | 0-100%              |                                   |
| 7  | 0-65535     | 0-100%              | <b>Crossfade</b>                  |
| 8  |             |                     | Formular: per = DMX_value /655.35 |
| 9  | 0-65535     | X*65535             | <b>X Coordinate</b>               |
| 10 |             |                     | Formular: X = DMX_value /65535    |
| 11 | 0-65535     | Y*65535             | <b>Y Coordinate</b>               |
| 12 |             |                     | Formular: Y = DMX_value /65535    |
| 13 | 0-9         | N/A                 | <b>Zoom Lens Angle 10°-45°</b>    |
|    | 10-45       | 10°-45°             |                                   |
|    | 46-255      | N/A                 |                                   |
| 14 | 0-20        | N/A                 | <b>Fan Speed</b>                  |
|    | 21-40       | Low speed           |                                   |
|    | 41-60       | Medium speed        |                                   |
|    | 61-80       | High speed          |                                   |
|    | 81-100      | Temperature control |                                   |
|    | 101-255     | N/A                 |                                   |

| <b>MODE 16 CCT+GEL 8 Bit - 9 CH</b> |                  |                    |  |
|-------------------------------------|------------------|--------------------|--|
| <b>DMX Channel</b>                  | <b>DMX Value</b> | <b>Range</b>       | <b>Function</b>  |
| 1                                   | 0-51             | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392   |
|                                     | 51-102           | 20-40%             |  |
|                                     | 102-153          | 40-60%             |  |
|                                     | 153-204          | 60-80%             |  |
|                                     | 204-255          | 80-100%            |  |
| 2                                   | 0-255            | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+DMX_value *28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
| 3                                   | 0-20             | 0%                 | <b>Green / Magenta</b>   |
|                                     | 21-30            | Full Magenta(100%) |  |
|                                     | 31-129           | Magenta(99%-1%)    |  |
|                                     | 130-140          | 0%                 |  |
|                                     | 141-240          | Green(1%-99%)      |  |
|                                     | 241-255          | Green(100%)        |  |
| 4                                   | 0-255            | 0-100%             | <b>Crossfade</b><br>Formular: per = DMX_value *0.392   |
| 5                                   | 0-127            | 3200K              | <b>3200K</b>   |
|                                     | 128-255          | 5600K              | <b>5600K</b>   |
| 6                                   | 0-127            | Group I            | <b>Select Group I</b>  |
|                                     | 128-255          | Group II           | <b>Select Group II</b>   |
| 7                                   | 0-121            | 1-122              | <b>GEL Filter Number in Group I</b>  |
|                                     | 0-190            | 123-313            | <b>GEL Filter Number in Group II</b>   |

|   |  |  |                                |
|---|--|--|--------------------------------|
| 8 | 0-9<br>10-45<br>46-255                               | N/A<br>10°-45°<br>N/A  | <b>Zoom Lens Angle 10°-45°</b> |
| 9 | 0-20<br>21-40<br>41-60<br>61-80<br>81-100<br>101-255 | N/A<br>Low speed<br>Medium speed<br>High speed<br>Temperature control<br>N/A | <b>Fan Speed</b>               |

**MODE 17 RGBWW+HSI 8 Bit - 10 CH**

| DMX Channel | DMX Value  | Range  | Function  |
|-------------|--|--|---|
| 1           | 0-51<br>51-102<br>102-153<br>153-204<br>204-255      | 0-20%<br>20-40%<br>40-60%<br>60-80%<br>80-100%                               | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value * 0.392     |
| 2           | 0-255  | 0-100%   | <b>Red</b><br>Formular: per = DMX_value * 0.392                         |
| 3           | 0-255  | 0-100%   | <b>Green</b><br>Formular: per = DMX_value * 0.392                       |
| 4           | 0-255  | 0-100%   | <b>Blue</b><br>Formular: per = DMX_value * 0.392                        |
| 5           | 0-255  | 0-100%   | <b>Warm White</b><br>Formular: per = DMX_value * 0.392                  |
| 6           | 0-255  | 0-100%   | <b>Crossfade</b><br>Formular: per = DMX_value * 0.392                   |
| 7           | 0-255  | 0-360  | <b>HUE</b><br>Formular: HUE = DMX_value * 1.4118                        |
| 8           | 0-255  | 0-100%   | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value * 0.392 |
| 9           | 0-9<br>10-45<br>46-255                               | N/A<br>10°-45°<br>N/A  | <b>Zoom Lens Angle 10°-45°</b>  |
| 10          | 0-20<br>21-40<br>41-60<br>61-80<br>81-100<br>101-255 | N/A<br>Low speed<br>Medium speed<br>High speed<br>Temperature control<br>N/A | <b>Fan Speed</b>  |

**MODE 18 RGBWW+HSI 16 Bit - 18 CH**

| DMX Channel | DMX Value | Range  | Function  |
|-------------|-----------|--------|---|
| 1           | 0-65535   | 0-100% | <b>Dimmer</b>                                       |
| 2           |           |        | Closed - Open<br>Formular: per = DMX_value / 655.35 |
| 3           | 0-65535   | 0-100% | <b>Red</b>  |
| 4           |           |        | Formular: per = DMX_value / 655.35                  |
| 5           | 0-65535   | 0-100% | <b>Green</b>  |
| 6           |           |        | Formular: per = DMX_value / 655.35                  |
| 7           | 0-65535   | 0-100% | <b>Blue</b>   |
| 8           |           |        | Formular: per = DMX_value / 655.35                  |
| 9           | 0-65535   | 0-100% | <b>Warm White</b>                                   |
| 10          |           |        | Formular: per = DMX_value / 655.35                  |
| 11          | 0-65535   | 0-100% | <b>Crossfade</b>                                    |
| 12          |           |        | Formular: per = DMX_value / 655.35                  |

|    |  |  |   |
|----|--|--|---|
| 13 | 0-65535  | 0-360  | <b>Hue</b><br>Formular: HUE = DMX_value *0.005493                       |
| 14 |  |  |   |
| 15 | 0-65535  | 0-100%   | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value /655.35 |
| 16 |  |  |   |
| 17 | 0-9<br>10-45<br>46-255                               | N/A<br>10°-45°<br>N/A  | <b>Zoom Lens Angle 10°-45°</b>  |
| 18 | 0-20<br>21-40<br>41-60<br>61-80<br>81-100<br>101-255 | N/A<br>Low speed<br>Medium speed<br>High speed<br>Temperature control<br>N/A |   |

| MODE 19 RGBWW+XY 8 Bit - 10 CH |  |  |  |
|--------------------------------|--|--|--|
| DMX Channel                    | DMX Value  | Range  | Function   |
| 1                              | 0-51   | 0-20%  | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|                                | 51-102   | 20-40%   |  |
|                                | 102-153  | 40-60%   |  |
|                                | 153-204  | 60-80%   |  |
|                                | 204-255  | 80-100%  |  |
| 2                              | 0-255  | 0-100%   | <b>Red</b><br>Formular: per = DMX_value *0.392                     |
| 3                              | 0-255  | 0-100%   | <b>Green</b><br>Formular: per = DMX_value *0.392                   |
| 4                              | 0-255  | 0-100%   | <b>Blue</b><br>Formular: per = DMX_value *0.392                    |
| 5                              | 0-255  | 0-100%   | <b>Warm White</b><br>Formular: per = DMX_value *0.392              |
| 6                              | 0-255  | 0-100%   | <b>Crossfade</b><br>Formular: per = DMX_value *0.392               |
| 7                              | 0-255  | X*255  | <b>X Coordinate</b><br>Formular: X = DMX_value /255                |
| 8                              | 0-255  | Y*255  | <b>Y Coordinate</b><br>Formular: Y = DMX_value /255                |
| 9                              | 0-9<br>10-45<br>46-255                               | N/A<br>10°-45°<br>N/A  | <b>Zoom Lens Angle 10°-45°</b>                                     |
| 10                             | 0-20<br>21-40<br>41-60<br>61-80<br>81-100<br>101-255 | N/A<br>Low speed<br>Medium speed<br>High speed<br>Temperature control<br>N/A |  |

| MODE 20 RGBWW+XY 16 Bit - 18 CH |           |        |   |
|---------------------------------|-----------|--------|---|
| DMX Channel                     | DMX Value | Range  | Function  |
| 1                               | 0-65535   | 0-100% | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value /655.35 |
| 2                               |           |        |   |
| 3                               | 0-65535   | 0-100% | <b>Red</b><br>Formular: per = DMX_value /655.35                     |
| 4                               |           |        |   |
| 5                               | 0-65535   | 0-100% | <b>Green</b><br>Formular: per = DMX_value /655.35                   |
| 6                               |           |        |   |

|    |  |  |  |
|----|--|--|--|
| 7  | 0-65535  | 0-100%   | <b>Blue</b><br>Formular: per = DMX_value /655.35       |
| 8  |  |  |  |
| 9  | 0-65535  | 0-100%   | <b>Warm White</b><br>Formular: per = DMX_value /655.35 |
| 10 |  |  |  |
| 11 | 0-65535  | 0-100%   | <b>Crossfade</b><br>Formular: per = DMX_value /655.35  |
| 12 |  |  |  |
| 13 | 0-65535  | X*65535  | <b>X Coordinate</b><br>Formular: X = DMX_value /65535  |
| 14 |  |  |  |
| 15 | 0-65535  | Y*65535  | <b>Y Coordinate</b><br>Formular: Y = DMX_value /655.35 |
| 16 |  |  |  |
| 17 | 0-9<br>10-45<br>46-255                               | N/A<br>10°-45°<br>N/A  | <b>Zoom Lens Angle 10°-45°</b>                         |
| 18 | 0-20<br>21-40<br>41-60<br>61-80<br>81-100<br>101-255 | N/A<br>Low speed<br>Medium speed<br>High speed<br>Temperature control<br>N/A |  |

**MODE 21 HSI+XY 8 Bit - 8 CH**

| DMX Channel | DMX Value  | Range  | Function   |
|-------------|--|--|--|
| 1           | 0-51<br>51-102<br>102-153<br>153-204<br>204-255      | 0-20%<br>20-40%<br>40-60%<br>60-80%<br>80-100%                               | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392     |
| 2           | 0-255  | 0-360  | <b>Hue</b><br>Closed - Open<br>Formular: HUE = DMX_value *1.4118       |
| 3           | 0-255  | 0-100%   | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
| 4           | 0-255  | 0-100%   | <b>Crossfade</b><br>Formular: per = DMX_value *0.392                   |
| 5           | 0-255  | X*255  | <b>X Coordinate</b><br>Formular: X = DMX_value /255                    |
| 6           | 0-255  | Y*255  | <b>Y Coordinate</b><br>Formular: Y = DMX_value /255                    |
| 7           | 0-9<br>10-45<br>46-255                               | N/A<br>10°-45°<br>N/A  | <b>Zoom Lens Angle 10°-45°</b>   |
| 8           | 0-20<br>21-40<br>41-60<br>61-80<br>81-100<br>101-255 | N/A<br>Low speed<br>Medium speed<br>High speed<br>Temperature control<br>N/A |  |

**MODE 22 HSI+XY 16 Bit - 14 CH**

| DMX Channel | DMX Value | Range  | Function  |
|-------------|-----------|--------|---|
| 1           | 0-65535   | 0-100% | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value /655.35 |
| 2           |           |        |   |

|    |  |  |   |
|----|--|--|---|
| 3  | 0-65535  | 0-360  | <b>Hue</b><br>Closed - Open<br>Formular: HUE = DMX_value *0.005493      |
| 4  |  |  |   |
| 5  | 0-65535  | 0-100%   | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value /655.35 |
| 6  |  |  |   |
| 7  | 0-65535  | 0-100%   | <b>Crossfade</b><br>Formular: per = DMX_value /655.35                   |
| 8  |  |  |   |
| 9  | 0-65535  | X*65535  | <b>X Coordinate</b><br>Formular: X = DMX_value /65535                   |
| 10 |  |  |   |
| 11 | 0-65535  | Y*65535  | <b>Y Coordinate</b><br>Formular: Y = DMX_value /65535                   |
| 12 |  |  |   |
| 13 | 0-9<br>10-45<br>46-255                               | N/A<br>10°-45°<br>N/A  | <b>Zoom Lens Angle 10°-45°</b>  |
| 14 | 0-20<br>21-40<br>41-60<br>61-80<br>81-100<br>101-255 | N/A<br>Low speed<br>Medium speed<br>High speed<br>Temperature control<br>N/A | <b>Fan Speed</b>  |

| MODE 23 EFFECT - CCT Chase 9 CH |           |                    |  |
|---------------------------------|-----------|--------------------|--|
| DMX Channel                     | DMX Value | Range              | Function   |
| 1                               | 0-51      | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392         |
|                                 | 51-102    | 20-40%             |  |
|                                 | 102-153   | 40-60%             |  |
|                                 | 153-204   | 60-80%             |  |
|                                 | 204-255   | 80-100%            |  |
| 2                               | 000-014   |                    | <b>CCT Chase</b>   |
| 3                               | 0-255     | 2700-10000K        | <b>CCT Start</b><br>Formular: Color Temperature = 2700 + DMX_value *28.627 |
| 4                               | 0-255     | 2700-10000K        | <b>CCT Stop</b><br>Formular: Color Temperature = 2700 + DMX_value *28.627  |
| 5                               | 0-20      | 0%                 | <b>Green / Magenta</b>   |
|                                 | 21-30     | Full Magenta(100%) |  |
|                                 | 31-129    | Magenta(99%-1%)    |  |
|                                 | 130-140   | 0%                 |  |
|                                 | 141-240   | Green(1%-99%)      |  |
|                                 | 241-255   | Green(100%)        |  |
| 6                               |           | Loop time increase | <b>Loop time (max 600 second)</b>  |
|                                 | 10-19     | 60 seconds         |  |
|                                 | 20-29     | 120 seconds        |  |
|                                 | 30-39     | 180 seconds        |  |
|                                 | 40-49     | 240 seconds        |  |
|                                 | 50-59     | 300 seconds        |  |
|                                 | 60-69     | 360 seconds        |  |
|                                 | 70-79     | 420 seconds        |  |
|                                 | 80-89     | 480 seconds        |  |
|                                 |           | 540 seconds        |  |

|   |  |   |                                |
|---|--|---|--------------------------------|
| 7 | 0-50<br>50-100<br>100-150<br>150-200<br>200-255      | 0-50 seconds<br>50-100 seconds<br>100-150 seconds<br>150-200 seconds<br>200-255 seconds | <b>Second/Loop</b>             |
| 8 | 0-9<br>10-45<br>46-255                               | N/A<br>10°-45°<br>N/A   | <b>Zoom Lens Angle 10°-45°</b> |
| 9 | 0-20<br>21-40<br>41-60<br>61-80<br>81-100<br>101-255 | N/A<br>Low speed<br>Medium speed<br>High speed<br>Temperature control<br>N/A            | <b>Fan Speed</b>               |

| <b>MODE 23 EFFECT - Color Chase 9 CH</b> |  |  |  |
|--|--|--|--|
| <b>DMX Channel</b>                       | <b>DMX Value</b>   | <b>Range</b>   | <b>Function</b>  |
| 1  | 0-255  | 0-100%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392     |
| 2  | 015-026  |  | <b>Color Chase</b>   |
| 3  | 0-42<br>42-85<br>85-127<br>127-170<br>170-212<br>212-255             | 0°-60°<br>60°-120°<br>120°-180°<br>180°-240°<br>240°-300°<br>300°-360°   | <b>HUE Start</b><br>Formular: HUE = DMX_value *1.4118                  |
| 4  | 0-42<br>42-85<br>85-127<br>127-170<br>170-212<br>212-255             | 0°-60°<br>60°-120°<br>120°-180°<br>180°-240°<br>240°-300°<br>300°-360°   | <b>HUE Stop</b><br>Formular: HUE = DMX_value *1.4118                   |
| 5  | 0-255  | 0-100%   | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
| 6  | 10-19<br>20-29<br>30-39<br>40-49<br>50-59<br>60-69<br>70-79<br>80-89 | 60 seconds<br>120 seconds<br>180 seconds<br>240 seconds<br>300 seconds<br>360 seconds<br>420 seconds<br>480 seconds<br>540 seconds | <b>Loop time (max 600 second)</b>                                      |
| 7  | 0-50<br>50-100<br>100-150<br>150-200<br>200-255                      | 0-50 seconds<br>50-100 seconds<br>100-150 seconds<br>150-200 seconds<br>200-255 seconds  | <b>Second/Loop (max 600 second)</b>                                    |
| 8  | 0-9<br>10-45<br>46-255   | N/A<br>10°-45°<br>N/A  | <b>Zoom Lens Angle 10°-45°</b>   |
| 9  | 0-20<br>20-40<br>40-60<br>60-80<br>80-100<br>100-255                 | N/A<br>Low speed<br>Medium speed<br>High speed<br>Temperature control<br>N/A   | <b>Fan Speed</b>   |

| MODE 23     |           | EFFECT - Fireworks  | 9 CH   |  |  |  |
|-------------|-----------|---------------------|--|--|--|--|
| DMX Channel | DMX Value | Range               | Function   |  |  |  |
| 1           | 0-51      | 0-20%               | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392     |  |  |  |
|             | 51-102    | 20-40%              |  |  |  |  |
|             | 102-153   | 40-60%              |  |  |  |  |
|             | 153-204   | 60-80%              |  |  |  |  |
|             | 204-255   | 80-100%             |  |  |  |  |
| 2           | 027-039   |                     | <b>Fireworks</b>   |  |  |  |
| 3           | 0-42      | 0°-60°              | <b>HUE Start</b><br>Formular: HUE = DMX_value *1.4118                  |  |  |  |
|             | 42-85     | 60°-120°            |  |  |  |  |
|             | 85-127    | 120°-180°           |  |  |  |  |
|             | 127-170   | 180°-240°           |  |  |  |  |
|             | 170-212   | 240°-300°           |  |  |  |  |
| 4           | 212-255   | 300°-360°           | <b>HUE Stop</b><br>Formular: HUE = DMX_value *1.4118                   |  |  |  |
|             | 0-42      | 0°-60°              |  |  |  |  |
|             | 42-85     | 60°-120°            |  |  |  |  |
|             | 85-127    | 120°-180°           |  |  |  |  |
|             | 127-170   | 180°-240°           |  |  |  |  |
| 5           | 170-212   | 240°-300°           | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |  |  |  |
|             | 212-255   | 300°-360°           |  |  |  |  |
|             | 0-255     | 0-100%              |  |  |  |  |
|             | 0-255     | 1-60                |  |  | <b>Explosion/min</b><br>Formular: speed = dmx_value/4.25 |  |
|             | 0-255     | 5-95                |  |  |  |  |
| 8           | 0-9       | N/A                 | <b>Zoom Lens Angle 10°-45°</b>   |  |  |  |
|             | 10-45     | 10°-45°             |  |  |  |  |
|             | 46-255    | N/A                 |  |  |  |  |
| 9           | 0-20      | N/A                 | <b>Fan Speed</b>   |  |  |  |
|             | 21-40     | Low speed           |  |  |  |  |
|             | 41-60     | Medium speed        |  |  |  |  |
|             | 61-80     | High speed          |  |  |  |  |
|             | 81-100    | Temperature control |  |  |  |  |
|             | 101-255   | N/A                 |  |  |  |  |

| MODE 23     |           | EFFECT - Fire | 6 CH   |  |
|-------------|-----------|---------------|--|--|
| DMX Channel | DMX Value | Range         | Function   |  |
| 1           | 0-51      | 0-20%         | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |  |
|             | 51-102    | 20-40%        |  |  |
|             | 102-153   | 40-60%        |  |  |
|             | 153-204   | 60-80%        |  |  |
|             | 204-255   | 80-100%       |  |  |
| 2           | 040-052   |               | <b>Fire</b>  |  |
| 3           | 0-255     | 0-100%        | <b>Wind Speed</b><br>Formular: per = DMX_value *0.392              |  |
| 4           | 0-49      | 0-49          | <b>Fire Type:</b> Candle   |  |
|             | 50-99     | 50-99         | <b>Fire Type:</b> Campfire   |  |
|             | 100-149   | 100-149       | <b>Fire Type:</b> bonfire  |  |
| 5           | 0-9       | N/A           | <b>Zoom Lens Angle 10°-45°</b>                                     |  |
|             | 10-45     | 10°-45°       |  |  |
|             | 46-255    | N/A           |  |  |

|   |         |                     |                  |
|---|---------|---------------------|------------------|
| 6 | 0-20    | N/A                 | <b>Fan Speed</b> |
|   | 21-40   | Low speed           |                  |
|   | 41-60   | Medium speed        |                  |
|   | 61-80   | High speed          |                  |
|   | 81-100  | Temperature control |                  |
|   | 101-255 | N/A                 |                  |

| MODE 23     |           | EFFECT - Explosion  | 7 CH   |
|-------------|-----------|---------------------|--|
| DMX Channel | DMX Value | Range               | Function   |
| 1           | 0-51      | 0-20%               | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|             | 51-102    | 20-40%              |  |
|             | 102-153   | 40-60%              |  |
|             | 153-204   | 60-80%              |  |
|             | 204-255   | 80-100%             |  |
| 2           | 053-065   |                     | <b>Explosion</b>   |
| 3           | 0-255     | 1-60                | <b>Explosion/min</b><br>Formular: speed = DMX_value /4.25          |
| 4           | 0-255     | 5-95                | <b>Duration</b><br>Formular: duty = DMX_value *0.353               |
| 5           | 0-49      | 0-49                | <b>Fire Type: Warm</b>   |
|             | 50-99     | 50-99               | <b>Fire Type: Cool</b>   |
|             | 100-149   | 100-149             | <b>Fire Type: Colors</b>   |
| 6           | 0-9       | N/A                 | <b>Zoom Lens Angle 10°-45°</b>                                     |
|             | 10-45     | 10°-45°             |  |
|             | 46-255    | N/A                 |  |
| 7           | 0-20      | N/A                 | <b>Fan Speed</b>   |
|             | 20-40     | Low speed           |  |
|             | 40-60     | Medium speed        |  |
|             | 60-80     | High speed          |  |
|             | 80-100    | Temperature control |  |
|             | 100-255   | N/A                 |  |

| MODE 23     |             | EFFECT - Lightning | 7 CH  |
|-------------|-------------|--------------------|---|
| DMX Channel | DMX Value   | Range              | Function  |
| 1           | 0-51        | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392  |
|             | 51-102      | 20-40%             |   |
|             | 102-153     | 40-60%             |   |
|             | 153-204     | 60-80%             |   |
|             | 204-255     | 80-100%            |   |
| 2           | 066-077     |                    | <b>Lightning</b>  |
| 3           | 0-255       | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+DMX_value *28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255 --> 10000K |
| 4           | 0-20        | 0%                 | <b>Green / Magenta</b>  |
|             | 21-30       | Full Magenta(100%) |   |
|             | 31-129      | Magenta(99%-1%)    |   |
|             | 130-140     | 0%                 |   |
|             | 141-240     | Green(1%-99%)      |   |
| 241-255     | Green(100%) |                    |   |
| 5           | 0-255       | 0-60               | <b>Intervals (Second)</b><br>Formular: time = DMX_value /4.25   |



|   |  |  |                                |
|---|--|--|--------------------------------|
| 6 | 0-9<br>10-45<br>46-255                               | N/A<br>10°-45°<br>N/A  | <b>Zoom Lens Angle 10°-45°</b> |
| 7 | 0-20<br>21-40<br>41-60<br>61-80<br>81-100<br>101-255 | N/A<br>Low speed<br>Medium speed<br>High speed<br>Temperature control<br>N/A | <b>Fan Speed</b>               |

| MODE 23     |  | EFFECT - Paparazzi   | 8 CH  |
|-------------|--|--|---|
| DMX Channel | DMX Value  | Range  | Function  |
| 1           | 0-51<br>51-102<br>102-153<br>153-204<br>204-255      | 0-20%<br>20-40%<br>40-60%<br>60-80%<br>80-100%                               | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value * 0.392   |
| 2           | 078-090  |  | <b>Paparazzi</b>  |
| 3           | 0-255  | 2700-10000K  | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+<br>DMX_value*28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
| 4           | 0-20   | 0%   | <b>Green / Magenta</b>  |
|             | 21-30  | Full Magenta(100%)   |   |
|             | 31-129   | Magenta(99%-1%)  |   |
|             | 130-140  | 0%   |   |
|             | 141-240  | Green(1%-99%)  |   |
|             | 241-255  | Green(100%)  |   |
| 5           | 0-255  | 0-25Hz   | <b>Frequency</b><br>Formular: frequency = DMX_value / 10.2  |
| 6           | 0-49   | 0-49   | <b>Bulb Type: Slow</b>  |
|             | 50-99  | 50-99  | <b>Bulb Type: Medium</b>  |
|             | 100-149  | 100-149  | <b>Bulb Type: Fast</b>  |
|             | 150-199  | 150-199  | <b>Bulb Type: Modern</b>  |
| 7           | 0-9<br>10-45<br>46-255                               | N/A<br>10°-45°<br>N/A  | <b>Zoom Lens Angle 10°-45°</b>  |
| 8           | 0-20<br>21-40<br>41-60<br>61-80<br>81-100<br>101-255 | N/A<br>Low speed<br>Medium speed<br>High speed<br>Temperature control<br>N/A | <b>Fan Speed</b>  |

| MODE 23     |   | EFFECT - Pulse                                 | 7 CH  |
|-------------|---|--|---|
| DMX Channel | DMX Value                                       | Range  | Function  |
| 1           | 0-51<br>51-102<br>102-153<br>153-204<br>204-255 | 0-20%<br>20-40%<br>40-60%<br>60-80%<br>80-100% | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value * 0.392 |
| 2           | 091-103   |  | <b>Pulse</b>  |

|   |  |  |  |
|---|--|--|--|
| 3 | 0-255  | 0-360  | <b>HUE</b><br>Formular: HUE = DMX_value *1.4118                        |
| 4 | 0-255  | 0-100%   | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
| 5 | 0-255  | 1-200  | <b>Pulses/min</b><br>Formular: frequency = 1+DMX_value / 1.281         |
| 6 | 0-9<br>10-45<br>46-255                               | N/A<br>10°-45°<br>N/A  | <b>Zoom Lens Angle 10°-45°</b>   |
| 7 | 0-20<br>21-40<br>41-60<br>61-80<br>81-100<br>101-255 | N/A<br>Low speed<br>Medium speed<br>High speed<br>Temperature control<br>N/A | <b>Fan Speed</b>   |

| MODE 23 EFFECT - Police 8 CH |  |  |  |
|------------------------------|--|--|--|
| DMX Channel                  | DMX Value  | Range  | Function   |
| 1                            | 0-51   | 0-20%  | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|                              | 51-102   | 20-40%   |  |
|                              | 102-153  | 40-60%   |  |
|                              | 153-204  | 60-80%   |  |
|                              | 204-255  | 80-100%  |  |
| 2                            | 104-116  |  | <b>Police</b>  |
| 3                            | 0-9  | 0-9  | <b>Colors:</b> Red, Blue & White                                   |
|                              | 10--19   | 10--19   | <b>Colors:</b> Red & Blue  |
|                              | 20--29   | 20--29   | <b>Colors:</b> Red & White   |
|                              | 30--39   | 30--39   | <b>Colors:</b> Blue & White  |
|                              | 40--49   | 40--49   | <b>Colors:</b> Blue  |
|                              | 50--59   | 50--59   | <b>Colors:</b> Red   |
|                              | 60--69   | 60--69   | <b>Colors:</b> Amber   |
| 4                            | 0-49   | 0-49   | <b>Flash/cycle:</b> 1  |
|                              | 50-99  | 50-99  | <b>Flash/cycle:</b> 2  |
|                              | 100-149  | 100-149  | <b>Flash/cycle:</b> 3  |
|                              | 150-199  | 150-199  | <b>Flash/cycle:</b> 4  |
| 5                            | 0-255  | 0-100%   | <b>Speed</b><br>Formular: per = DMX_value *0.392                   |
| 6                            | 0-255  | 5-95   | <b>Duration</b><br>Formular: duty = 5+ DMX_value *0.353            |
| 7                            | 0-9<br>10-45<br>46-255                               | N/A<br>10°-45°<br>N/A  | <b>Zoom Lens Angle 10°-45°</b>                                     |
| 8                            | 0-20<br>21-40<br>41-60<br>61-80<br>81-100<br>101-255 | N/A<br>Low speed<br>Medium speed<br>High speed<br>Temperature control<br>N/A | <b>Fan Speed</b>   |

| MODE 23 EFFECT - Strobe Color 8 CH |           |                     |  |
|------------------------------------|-----------|---------------------|--|
| DMX Channel                        | DMX Value | Range               | Function   |
| 1                                  | 0-51      | 0-20%               | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392     |
|                                    | 51-102    | 20-40%              |  |
|                                    | 102-153   | 40-60%              |  |
|                                    | 153-204   | 60-80%              |  |
|                                    | 204-255   | 80-100%             |  |
| 2                                  | 117-128   |                     | <b>Strobe Color</b>  |
| 3                                  | 0-255     | 0-360               | <b>HUE</b><br>Formular: HUE = DMX_value *1.4118                        |
| 4                                  | 0-255     | 0-100               | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
| 5                                  | 0-255     | 0-25Hz              | <b>Frequency</b><br>Formular: frequency = DMX_value /10.2              |
| 6                                  | 0-255     | 5-95                | <b>Duration</b><br>Formular: duty = 5+ DMX_value *0.353                |
| 7                                  | 0-9       | N/A                 | <b>Zoom Lens Angle 10°-45°</b>   |
|                                    | 10-45     | 10°-45°             |  |
|                                    | 46-255    | N/A                 |  |
| 8                                  | 0-20      | N/A                 | <b>Fan Speed</b>   |
|                                    | 21-40     | Low speed           |  |
|                                    | 41-60     | Medium speed        |  |
|                                    | 61-80     | High speed          |  |
|                                    | 81-100    | Temperature control |  |
|                                    | 101-255   | N/A                 |  |

| MODE 23 EFFECT - Strobe CCT 8 CH |           |                    |  |
|----------------------------------|-----------|--------------------|--|
| DMX Channel                      | DMX Value | Range              | Function   |
| 1                                | 0-51      | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392   |
|                                  | 51-102    | 20-40%             |  |
|                                  | 102-153   | 40-60%             |  |
|                                  | 153-204   | 60-80%             |  |
|                                  | 204-255   | 80-100%            |  |
| 2                                | 129-141   |                    | <b>Strobe CCT</b>  |
| 3                                | 0-255     | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+DMX_value *28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
|                                  |           |                    |  |
| 4                                | 0-20      | 0%                 | <b>Green / Magenta</b>   |
|                                  | 21-30     | Full Magenta(100%) |  |
|                                  | 31-129    | Magenta(99%-1%)    |  |
|                                  | 130-140   | 0%                 |  |
|                                  | 141-240   | Green(1%-99%)      |  |
|                                  | 241-255   | Green(100%)        |  |
| 5                                | 0-255     | 0-25Hz             | <b>Frequency</b><br>Formular: frequency = DMX_value /10.2  |
| 6                                | 0-255     | 5-95               | <b>Duration</b><br>Formular: duty = 5+ DMX_value *0.353  |
| 7                                | 0-9       | N/A                | <b>Zoom Lens Angle 10°-45°</b>   |
|                                  | 10-45     | 10°-45°            |  |
|                                  | 46-255    | N/A                |  |

|   |         |                     |                  |
|---|---------|---------------------|------------------|
| 8 | 0-20    | N/A                 | <b>Fan Speed</b> |
|   | 21-40   | Low speed           |                  |
|   | 41-60   | Medium speed        |                  |
|   | 61-80   | High speed          |                  |
|   | 81-100  | Temperature control |                  |
|   | 101-255 | N/A                 |                  |

|                |                     |
|----------------|---------------------|
| <b>MODE 24</b> | <b>Marco - 4 CH</b> |
|----------------|---------------------|

| DMX Channel | DMX Value | Range               | Function   |
|-------------|-----------|---------------------|--|
| 1           | 0-51      | 0-20%               | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|             | 51-102    | 20-40%              |  |
|             | 102-153   | 40-60%              |  |
|             | 153-204   | 60-80%              |  |
|             | 204-255   | 80-100%             |  |
| 2           | 0-46      | 0-46                | Pls check: Appendix I Macro  |
| 3           | 0-9       | N/A                 | <b>Zoom Lens Angle 10°-45°</b>                                     |
|             | 10-45     | 10°-45°             |  |
|             | 46-255    | N/A                 |  |
| 4           | 0-20      | N/A                 | <b>Fan Speed</b>   |
|             | 21-40     | Low speed           |  |
|             | 41-60     | Medium speed        |  |
|             | 61-80     | High speed          |  |
|             | 81-100    | Temperature control |  |
|             | 101-255   | N/A                 |  |



**DMX Protocol Map**

**Airlite P1000/P1000T/P500**

Appendix I Macro  
Appendix II GEL Filter

| MODE 1      |           | CCT 8 Bit - 4 CH   |  |
|-------------|-----------|--------------------|--|
| DMX Channel | DMX Value | Range              | Function   |
| 1           | 0-51      | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: $per = DMX\_value * 0.392$   |
|             | 51-102    | 20-40%             |  |
|             | 102-153   | 40-60%             |  |
|             | 153-204   | 60-80%             |  |
|             | 204-255   | 80-100%            |  |
| 2           | 0-255     | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = $2700 + DMX\_value * 28.627$<br><br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
|             |           |                    |  |
| 3           | 0-20      | 0                  | <b>Green / Magenta</b>   |
|             | 21-30     | Full Magenta(100%) |  |
|             | 31-129    | Magenta(99%-1%)    |  |
|             | 130-140   | 0%                 |  |
|             | 141-240   | Green(1%-99%)      |  |
|             | 241-255   | Green(100%)        |  |
| 4           | 0-20      | 0-20%              | <b>Fan Speed</b>   |
|             | 20-40     | 20-40%             |  |
|             | 40-60     | 40-60%             |  |
|             | 60-80     | 60-80%             |  |
|             | 80-100    | 80-100%            |  |
|             | 100-255   | 100%               |  |
|             |           |                    |  |

| MODE 2      |             | CCT 16 Bit - 7 CH  |   |
|-------------|-------------|--------------------|---|
| DMX Channel | DMX Value   | Range              | Function  |
| 1           | 0-65535     | 0-100%             | <b>Dimmer</b><br>Closed - Open<br>Formular: $per = DMX\_value / 655.35$                                     |
| 2           |             |                    |   |
| 3           | 0-65535     | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br>Formular: Color Temperature<br>$= 2700 + DMX\_value * 0.11139$ |
| 4           |             |                    |   |
| 5           | 0-5000      | 0%                 | <b>Green / Magenta</b>  |
|             | 5001-10000  | Full Magenta(100%) |   |
|             | 10001-29999 | Magenta(99%-1%)    |   |
| 6           | 30000-40000 | 0%                 |   |
|             | 40001-59999 | Green(1%-99%)      |   |
|             | 60000-65535 | Green(100%)        |   |

|   |         |         |                  |
|---|---------|---------|------------------|
| 7 | 0-20    | 0-20%   | <b>Fan Speed</b> |
|   | 20-40   | 20-40%  |                  |
|   | 40-60   | 40-60%  |                  |
|   | 60-80   | 60-80%  |                  |
|   | 80-100  | 80-100% |                  |
|   | 100-255 | 100%    |                  |

**MODE 3 HSI 8 Bit - 4 CH**

| DMX Channel | DMX Value | Range   | Function  |
|-------------|-----------|---------|---|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392              |
|             | 51-102    | 20-40%  |   |
|             | 102-153   | 40-60%  |   |
|             | 153-204   | 60-80%  |   |
|             | 204-255   | 80-100% |   |
| 2           | 0-255     | 0-360   | <b>Hue</b><br>Closed - Open<br>Formular: HUE = DMX_value *1.4118                |
| 3           | 0-255     | 0-100%  | <b>Saturation HSI 8bit</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
| 4           | 0-20      | 0-20%   | <b>Fan Speed</b>  |
|             | 20-40     | 20-40%  |   |
|             | 40-60     | 40-60%  |   |
|             | 60-80     | 60-80%  |   |
|             | 80-100    | 80-100% |   |
|             | 100-255   | 100%    |   |

**MODE 4 HSI 16 Bit - 7 CH**

| DMX Channel | DMX Value | Range   | Function  |
|-------------|-----------|---------|---|
| 1           | 0-65535   | 0-100%  | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value /655.35     |
| 2           |           |         |   |
| 3           | 0-65535   | 0-360   | <b>Hue</b><br>Closed - Open<br>Formular: HUE = DMX_value *0.005493      |
| 4           |           |         |   |
| 5           | 0-65535   | 0-100%  | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value /655.35 |
| 6           |           |         |   |
| 7           | 0-20      | 0-20%   | <b>Fan Speed</b>  |
|             | 20-40     | 20-40%  |   |
|             | 40-60     | 40-60%  |   |
|             | 60-80     | 60-80%  |   |
|             | 80-100    | 80-100% |   |
|             | 100-255   | 100%    |   |

**MODE 5 XY 8 Bit - 4 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |
| 2           | 0-255     | X*255   | <b>X Coordinate</b><br>Formular: X = DMX_value /255                |
| 3           | 0-255     | Y*255   | <b>Y Coordinate</b><br>Formular: Y = DMX_value /255                |

|   |         |         |                  |
|---|---------|---------|------------------|
| 4 | 0-20    | 0-20%   | <b>Fan Speed</b> |
|   | 20-40   | 20-40%  |                  |
|   | 40-60   | 40-60%  |                  |
|   | 60-80   | 60-80%  |                  |
|   | 80-100  | 80-100% |                  |
|   | 100-255 | 100%    |                  |

**MODE 6 XY 16 Bit - 7 CH**

| DMX Channel | DMX Value | Range   | Function  |
|-------------|-----------|---------|---|
| 1           | 0-65535   | 0-100%  | <b>Dimmer</b><br>Closed – Open<br>Formular: per = DMX_value /655.35 |
| 2           |           |         |   |
| 3           | 0-65535   | X*65535 | <b>X Coordinate</b><br>Formular: X = DMX_value /65535               |
| 4           |           |         |   |
| 5           | 0-65535   | Y*65535 | <b>Y Coordinate</b><br>Formular: Y = DMX_value /65535               |
| 6           |           |         |   |
| 7           | 0-20      | 0-20%   | <b>Fan Speed</b>  |
|             | 20-40     | 20-40%  |   |
|             | 40-60     | 40-60%  |   |
|             | 60-80     | 60-80%  |   |
|             | 80-100    | 80-100% |   |
|             | 100-255   | 100%    |   |

**MODE 7 RGBWW 8 Bit - 7 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |
| 2           | 0-255     | 0-100%  | <b>Red</b><br>Formular: per = DMX_value *0.392                     |
| 3           | 0-255     | 0-100%  | <b>Green</b><br>Formular: per = DMX_value *0.392                   |
| 4           | 0-255     | 0-100%  | <b>Blue</b><br>Formular: per = DMX_value *0.392                    |
| 5           | 0-255     | 0-100%  | <b>Warm White</b><br>Formular: per = DMX_value *0.392              |
| 6           | 0-255     | 0-100%  | <b>Cool White</b><br>Formular: per = DMX_value *0.392              |
| 7           | 0-20      | 0-20%   | <b>Fan Speed</b>   |
|             | 20-40     | 20-40%  |  |
|             | 40-60     | 40-60%  |  |
|             | 60-80     | 60-80%  |  |
|             | 80-100    | 80-100% |  |
|             | 100-255   | 100%    |  |

**MODE 8 RGBWW 16 Bit - 13 CH**

| DMX Channel | DMX Value | Range  | Function  |
|-------------|-----------|--------|---|
| 1           | 0-65535   | 0-100% | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value /655.35 |
| 2           |           |        |   |
| 3           | 0-65535   | 0-100% | <b>Red</b><br>Formular: per = DMX_value /655.35                     |
| 4           |           |        |   |
| 5           | 0-65535   | 0-100% | <b>Green</b><br>Formular: per = DMX_value /655.35                   |
| 6           |           |        |   |

|    |         |         |  |
|----|---------|---------|--|
| 7  | 0-65535 | 0-100%  | <b>Blue</b><br>Formular: per = DMX_value /655.35         |
| 8  |         |         |  |
| 9  | 0-65535 | 0-100%  | <b>Warm White</b><br>Formular: per = DMX_value /655.35   |
| 10 |         |         |  |
| 11 | 0-65535 | 0-100%  | <b>Cool White R</b><br>Formular: per = DMX_value /655.35 |
| 12 |         |         |  |
| 13 | 0-20    | 0-20%   | <b>Fan Speed</b>   |
|    | 20-40   | 20-40%  |  |
|    | 40-60   | 40-60%  |  |
|    | 60-80   | 60-80%  |  |
|    | 80-100  | 80-100% |  |
|    | 100-255 | 100%    |  |

**MODE 9 GEL 8 Bit - 5 CH**

| DMX Channel | DMX Value | Range    | Function   |
|-------------|-----------|----------|--|
| 1           | 0-51      | 0-20%    | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|             | 51-102    | 20-40%   |  |
|             | 102-153   | 40-60%   |  |
|             | 153-204   | 60-80%   |  |
|             | 204-255   | 80-100%  |  |
| 2           | 0-127     | 3200K    | <b>3200K</b>   |
|             | 128-255   | 5600K    | <b>5600K</b>   |
| 3           | 0-127     | Group I  | <b>Select Group I</b>  |
|             | 128-255   | Group II | <b>Select Group II</b>   |
| 4           | 0-121     | 1-122    | <b>GEL Filter Number in Group I</b>                                |
|             | 0-155     | 0-155    | <b>GEL Filter Number in Group II</b>                               |
| 5           | 0-20      | 0-20%    | <b>Fan Speed</b>   |
|             | 20-40     | 20-40%   |  |
|             | 40-60     | 40-60%   |  |
|             | 60-80     | 60-80%   |  |
|             | 80-100    | 80-100%  |  |
|             | 100-255   | 100%     |  |

**MODE 10 CCT+RGBWW 8 Bit - 10 CH**

| DMX Channel | DMX Value | Range              | Function   |
|-------------|-----------|--------------------|--|
| 1           | 0-51      | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392   |
|             | 51-102    | 20-40%             |  |
|             | 102-153   | 40-60%             |  |
|             | 153-204   | 60-80%             |  |
|             | 204-255   | 80-100%            |  |
| 2           | 0-255     | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+DMX_value *28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
| 3           | 0-20      | 0%                 | <b>Green / Magenta CCT 8 Bit</b>   |
|             | 21-30     | Full Magenta(100%) |  |
|             | 31-129    | Magenta(99%-1%)    |  |
|             | 130-140   | 0%                 |  |
|             | 141-240   | Green(1%-99%)      |  |
|             | 241-255   | Green(100%)        |  |



|    |  |  |   |
|----|--|--|---|
| 4  | 0-255  | 0-100%   | <b>Crossfade</b><br>Formular: per = DMX_value *0.392  |
| 5  | 0-255  | 0-100%   | <b>Red</b><br>Formular: per = DMX_value *0.392        |
| 6  | 0-255  | 0-100%   | <b>Green</b><br>Formular: per = DMX_value *0.392      |
| 7  | 0-255  | 0-100%   | <b>Blue</b><br>Formular: per = DMX_value *0.392       |
| 8  | 0-255  | 0-100%   | <b>Warm White</b><br>Formular: per = DMX_value *0.392 |
| 9  | 0-255  | 0-100%   | <b>Cool White</b><br>Formular: per = DMX_value *0.392 |
| 10 | 0-20<br>20-40<br>40-60<br>60-80<br>80-100<br>100-255 | 0-20%<br>20-40%<br>40-60%<br>60-80%<br>80-100%<br>100% | <b>Fan Speed</b>                                      |

**MODE 11 CCT+RGBWW 16 Bit - 19 CH**

| DMX Channel | DMX Value  | Range  | Function   |
|-------------|--|--|--|
| 1           | 0-65535  | 0-100%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value /655.35                                      |
| 2           |  |  |  |
| 3           | 0-65535  | 2700-10000K  | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+<br>DMX_value*0.11139 |
| 4           |  |  |  |
| 5           | 0-5000   | 0%   | <b>Green / Magenta</b>   |
|             | 5001-10000   | Full Magenta(100%)                                     |  |
|             | 10001-29999  | Magenta(99%-1%)  |  |
| 6           | 30000-40000  | 0%   |  |
|             | 40001-59999  | Green(1%-99%)  |  |
|             | 60000-65535  | Green(100%)  |  |
| 7           | 0-65535  | 0-100%   | <b>Crossfade</b><br>Formular: per = DMX_value /655.35  |
| 8           |  |  |  |
| 9           | 0-65535  | 0-100%   | <b>Red</b><br>Formular: per = DMX_value /655.35  |
| 10          |  |  |  |
| 11          | 0-65535  | 0-100%   | <b>Green</b><br>Formular: per = DMX_value /655.35  |
| 12          |  |  |  |
| 13          | 0-65535  | 0-100%   | <b>Blue</b><br>Formular: per = DMX_value /655.35   |
| 14          |  |  |  |
| 15          | 0-65535  | 0-100%   | <b>Warm White</b><br>Formular: per = DMX_value /655.35   |
| 16          |  |  |  |
| 17          | 0-65535  | 0-100%   | <b>Cool White</b><br>Formular: per = DMX_value /655.35   |
| 18          |  |  |  |
| 19          | 0-20<br>20-40<br>40-60<br>60-80<br>80-100<br>100-255 | 0-20%<br>20-40%<br>40-60%<br>60-80%<br>80-100%<br>100% | <b>Fan Speed</b>   |

**MODE 12 CCT+HSI 8 Bit - 7 CH**

| DMX Channel | DMX Value                                       | Range  | Function  |
|-------------|---|--|---|
| 1           | 0-51<br>51-102<br>102-153<br>153-204<br>204-255 | 0-20%<br>20-40%<br>40-60%<br>60-80%<br>80-100% | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392  |
| 2           | 0-255   | 2700-10000K                                    | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+DMX_value<br>*28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
| 3           | 0-20  | 0%   | <b>Green / Magenta</b>  |
|             | 21-30   | Full Magenta(100%)                             |   |
|             | 31-129  | Magenta(99%-1%)                                |   |
|             | 130-140   | 0%   |   |
|             | 141-240   | Green(1%-99%)                                  |   |
|             | 241-255   | Green(100%)                                    |   |
| 4           | 0-255   | 0-100%   | <b>Crossfade</b><br>Formular: per = DMX_value *0.392  |
| 5           | 0-255   | 0-360  | <b>HUE</b><br>Formular: HUE = DMX_value *1.4118   |
| 6           | 0-255   | 0-100%   | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392  |
| 7           | 0-20  | 0-20%  | <b>Fan Speed</b>  |
|             | 20-40   | 20-40%   |   |
|             | 40-60   | 40-60%   |   |
|             | 60-80   | 60-80%   |   |
|             | 80-100  | 80-100%  |   |
|             | 100-255   | 100%   |   |

| MODE 13 CCT+HSI 16 Bit - 13 CH |             |                    |  |
|--------------------------------|-------------|--------------------|--|
| DMX Channel                    | DMX Value   | Range              | Function   |
| 1                              | 0-65535     | 0-100%             | <b>Dimmer</b><br>Closed – Open<br>Formular: per = DMX_value /655.35                                      |
| 2                              |             |                    |  |
| 3                              | 0-65535     | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+<br>DMX_value*0.11139 |
| 4                              |             |                    |  |
| 5                              | 0-5000      | 0%                 | <b>Green / Magenta</b>   |
|                                | 5001-10000  | Full Magenta(100%) |  |
|                                | 10001-29999 | Magenta(99%-1%)    |  |
| 6                              | 30000-40000 | 0%                 |  |
|                                | 40001-59999 | Green(1%-99%)      |  |
|                                | 60000-65535 | Green(100%)        |  |
| 7                              | 0-65535     | 0-100%             | <b>Crossfade</b><br>Formular: per = DMX_value /655.35  |
| 8                              |             |                    |  |
| 9                              | 0-65535     | 0-360              | <b>HUE</b><br>Formular: HUE = DMX_value *0.005493  |
| 10                             |             |                    |  |

|    |  |  |   |
|----|--|--|---|
| 11 | 0-65535  | 0-100%   | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value /655.35 |
| 12 |  |  |   |
| 13 | 0-20<br>20-40<br>40-60<br>60-80<br>80-100<br>100-255 | 0-20%<br>20-40%<br>40-60%<br>60-80%<br>80-100%<br>100% | <b>Fan Speed</b>  |

**MODE 14 CCT+XY 8 Bit - 7 CH**

| DMX Channel | DMX Value | Range              | Function   |
|-------------|-----------|--------------------|--|
| 1           | 0-51      | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392   |
|             | 51-102    | 20-40%             |  |
|             | 102-153   | 40-60%             |  |
|             | 153-204   | 60-80%             |  |
|             | 204-255   | 80-100%            |  |
| 2           | 0-255     | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+DMX_value *28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
| 3           | 0-20      | 0%                 | <b>Green / Magenta</b>   |
|             | 21-30     | Full Magenta(100%) |  |
|             | 31-129    | Magenta(99%-1%)    |  |
|             | 130-140   | 0%                 |  |
|             | 141-240   | Green(1%-99%)      |  |
|             | 241-255   | Green(100%)        |  |
| 4           | 0-255     | 0-100%             | <b>Crossfade</b><br>Formular: per = DMX_value *0.392   |
| 5           | 0-255     | X*255              | <b>X Coordinate</b><br>Formular: X = DMX_value /255  |
| 6           | 0-255     | Y*255              | <b>Y Coordinate</b><br>Formular: Y = DMX_value /255  |
| 7           | 0-20      | 0-20%              | <b>Fan Speed</b>   |
|             | 20-40     | 20-40%             |  |
|             | 40-60     | 40-60%             |  |
|             | 60-80     | 60-80%             |  |
|             | 80-100    | 80-100%            |  |
|             | 100-255   | 100%               |  |

**MODE 15 CCT+XY 16 Bit - 13CH**

| DMX Channel | DMX Value | Range       | Function   |
|-------------|-----------|-------------|--|
| 1           | 0-65535   | 0-100%      | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value /655.35                                      |
| 2           |           |             |  |
| 3           | 0-65535   | 2700-10000K | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+<br>DMX_value*0.11139 |
| 4           |           |             |  |

|    |             |         |                                   |
|----|-------------|---------|-----------------------------------|
| 5  | 0-5000      | 0-100%  | <b>Green / Magenta</b>            |
|    | 5001-10000  | 0-100%  |                                   |
|    | 10001-29999 | 0-100%  |                                   |
| 6  | 30000-40000 | 0%      |                                   |
|    | 40001-59999 | 0-100%  |                                   |
|    | 60000-65535 | 0-100%  |                                   |
| 7  | 0-65535     | 0-100%  | <b>Crossfade</b>                  |
| 8  |             |         | Formular: per = DMX_value /655.35 |
| 9  | 0-65535     | X*65535 | <b>X Coordinate</b>               |
| 10 |             |         | Formular: X = DMX_value /65535    |
| 11 | 0-65535     | Y*65535 | <b>Y Coordinate</b>               |
| 12 |             |         | Formular: Y = DMX_value /65535    |
| 13 | 0-20        | 0-20%   | <b>Fan Speed</b>                  |
|    | 20-40       | 20-40%  |                                   |
|    | 40-60       | 40-60%  |                                   |
|    | 60-80       | 60-80%  |                                   |
|    | 80-100      | 80-100% |                                   |
|    | 100-255     | 100%    |                                   |

| <b>MODE 16 CCT+GEL 8 Bit - 8 CH</b> |                  |                    |  |
|-------------------------------------|------------------|--------------------|--|
| <b>DMX Channel</b>                  | <b>DMX Value</b> | <b>Range</b>       | <b>Function</b>  |
| 1                                   | 0-51             | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392   |
|                                     | 51-102           | 20-40%             |  |
|                                     | 102-153          | 40-60%             |  |
|                                     | 153-204          | 60-80%             |  |
|                                     | 204-255          | 80-100%            |  |
| 2                                   | 0-255            | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+DMX_value *28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
| 3                                   | 0-20             | 0%                 | <b>Green / Magenta</b>   |
|                                     | 21-30            | Full Magenta(100%) |  |
|                                     | 31-129           | Magenta(99%-1%)    |  |
|                                     | 130-140          | 0%                 |  |
|                                     | 141-240          | Green(1%-99%)      |  |
|                                     | 241-255          | Green(100%)        |  |
| 4                                   | 0-255            | 0-100%             | <b>Crossfade</b><br>Formular: per = DMX_value *0.392   |
| 5                                   | 0-127            | 3200K              | <b>3200K</b>   |
|                                     | 128-255          | 5600K              | <b>5600K</b>   |
| 6                                   | 0-127            | Group I            | <b>Select Group I</b>  |
|                                     | 128-255          | Group II           | <b>Select Group II</b>   |
| 7                                   | 0-121            | 1-122              | <b>GEL Filter Number in Group I</b>  |
|                                     | 0-155            | 0-155              | <b>GEL Filter Number in Group II</b>   |

|   |         |         |                  |
|---|---------|---------|------------------|
| 8 | 0-20    | 0-20%   | <b>Fan Speed</b> |
|   | 20-40   | 20-40%  |                  |
|   | 40-60   | 40-60%  |                  |
|   | 60-80   | 60-80%  |                  |
|   | 80-100  | 80-100% |                  |
|   | 100-255 | 100%    |                  |

**MODE 17 CCT+GEL 16 Bit - 12 CH**

| DMX Channel | DMX Value   | Range              | Function   |
|-------------|-------------|--------------------|--|
| 1           | 0-65535     | 0-100%             | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value /655.35                                      |
| 2           |             |                    |  |
| 3           | 0-65535     | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+<br>DMX_value*0.11139 |
| 4           |             |                    |  |
| 5           | 0-5000      | 0%                 | <b>Green / Magenta</b>   |
|             | 5001-10000  | Full Magenta(100%) |  |
|             | 10001-29999 | Magenta(99%-1%)    |  |
| 6           | 30000-40000 | 0%                 |  |
|             | 40001-59999 | Green(1%-99%)      |  |
|             | 60000-65535 | Green(100%)        |  |
| 7           | 0-65535     | 0-100%             | <b>Crossfade</b>   |
| 8           |             |                    |  |
| 9           | 0-127       | 3200K              | <b>3200K</b>   |
|             | 128-255     | 5600K              | <b>5600K</b>   |
| 10          | 0-127       | Group I            | <b>Select Group I</b>  |
|             | 128-255     | Group II           | <b>Select Group II</b>   |
| 11          | 0-121       | 1-122              | <b>GEL Filter Number in Group I</b>  |
|             | 0-155       | 0-155              | <b>GEL Filter Number in Group II</b>   |
| 12          | 0-20        | 0-20%              | <b>Fan Speed</b>   |
|             | 20-40       | 20-40%             |  |
|             | 40-60       | 40-60%             |  |
|             | 60-80       | 60-80%             |  |
|             | 80-100      | 80-100%            |  |
|             | 100-255     | 100%               |  |

**MODE 18 RGBWW+HSI 8 Bit - 10 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |
| 2           | 0-255     | 0-100%  | <b>Red</b><br>Formular: per = DMX_value *0.392                     |
| 3           | 0-255     | 0-100%  | <b>Green</b><br>Formular: per = DMX_value *0.392                   |
| 4           | 0-255     | 0-100%  | <b>Blue</b><br>Formular: per = DMX_value *0.392                    |
| 5           | 0-255     | 0-100%  | <b>Warm White</b><br>Formular: per = DMX_value *0.392              |
| 6           | 0-255     | 0-100%  | <b>Cool White</b><br>Formular: per = DMX_value *0.392              |

|    |  |  |  |
|----|--|--|--|
| 7  | 0-255  | 0-100%   | <b>Crossfade</b><br>Formular: per = DMX_value *0.392                   |
| 8  | 0-255  | 0-360  | <b>HUE</b><br>Formular: HUE = DMX_value *1.4118                        |
| 9  | 0-255  | 0-100%   | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
| 10 | 0-20<br>20-40<br>40-60<br>60-80<br>80-100<br>100-255 | 0-20%<br>20-40%<br>40-60%<br>60-80%<br>80-100%<br>100% | <b>Fan Speed</b>   |

**MODE 19 RGBWW+HSI 16 Bit - 19 CH**

| DMX Channel | DMX Value  | Range  | Function  |
|-------------|--|--|---|
| 1           | 0-65535  | 0-100%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value /655.35     |
| 2           |  |  |   |
| 3           | 0-65535  | 0-100%   | <b>Red</b><br>Formular: per = DMX_value /655.35                         |
| 4           |  |  |   |
| 5           | 0-65535  | 0-100%   | <b>Green</b><br>Formular: per = DMX_value /655.35                       |
| 6           |  |  |   |
| 7           | 0-65535  | 0-100%   | <b>Blue</b><br>Formular: per = DMX_value /655.35                        |
| 8           |  |  |   |
| 9           | 0-65535  | 0-100%   | <b>Warm White</b><br>Formular: per = DMX_value /655.35                  |
| 10          |  |  |   |
| 11          | 0-65535  | 0-100%   | <b>Cool White</b><br>Formular: per = DMX_value /655.35                  |
| 12          |  |  |   |
| 13          | 0-65535  | 0-100%   | <b>Crossfade</b><br>Formular: per = DMX_value /655.35                   |
| 14          |  |  |   |
| 15          | 0-65535  | 0-360  | <b>Hue</b><br>Formular: per = DMX_value *0.005493                       |
| 16          |  |  |   |
| 17          | 0-65535  | 0-100%   | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value /655.35 |
| 18          |  |  |   |
| 19          | 0-20<br>20-40<br>40-60<br>60-80<br>80-100<br>100-255 | 0-20%<br>20-40%<br>40-60%<br>60-80%<br>80-100%<br>100% | <b>Fan Speed</b>  |

**MODE 20 RGBWW+XY 8 Bit - 10 CH**

| DMX Channel | DMX Value                                       | Range  | Function   |
|-------------|---|--|--|
| 1           | 0-51<br>51-102<br>102-153<br>153-204<br>204-255 | 0-20%<br>20-40%<br>40-60%<br>60-80%<br>80-100% | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
| 2           | 0-255   | 0-100%   | <b>Red</b><br>Formular: per = DMX_value *0.392                     |
| 3           | 0-255   | 0-100%   | <b>Green</b><br>Formular: per = DMX_value *0.392                   |
| 4           | 0-255   | 0-100%   | <b>Blue</b><br>Formular: per = DMX_value *0.392                    |

|    |  |  |   |
|----|--|--|---|
| 5  | 0-255  | 0-100%   | <b>Warm White</b><br>Formular: per = DMX_value *0.392 |
| 6  | 0-255  | 0-100%   | <b>Cool White</b><br>Formular: per = DMX_value *0.392 |
| 7  | 0-255  | 0-100%   | <b>Crossfade</b><br>Formular: per = DMX_value *0.392  |
| 8  | 0-255  | X*255  | <b>X Coordinate</b><br>Formular: X = DMX_value /255   |
| 9  | 0-255  | Y*255  | <b>Y Coordinate</b><br>Formular: Y = DMX_value /255   |
| 10 | 0-20<br>20-40<br>40-60<br>60-80<br>80-100<br>100-255 | 0-20%<br>20-40%<br>40-60%<br>60-80%<br>80-100%<br>100% | <b>Fan Speed</b>                                      |

|                |                                |
|----------------|--------------------------------|
| <b>MODE 21</b> | <b>RGBWW+XY 16 Bit - 19 CH</b> |
|----------------|--------------------------------|

| DMX Channel | DMX Value  | Range  | Function                          |
|-------------|--|--|-----------------------------------|
| 1           | 0-65535  | 0-100%   | <b>Dimmer</b><br>Closed - Open    |
| 2           |  |  | Formular: per = DMX_value /655.35 |
| 3           | 0-65535  | 0-100%   | <b>Red</b>                        |
| 4           |  |  | Formular: per = DMX_value /655.35 |
| 5           | 0-65535  | 0-100%   | <b>Green</b>                      |
| 6           |  |  | Formular: per = DMX_value /655.35 |
| 7           | 0-65535  | 0-100%   | <b>Blue</b>                       |
| 8           |  |  | Formular: per = DMX_value /655.35 |
| 9           | 0-65535  | 0-100%   | <b>Warm</b>                       |
| 10          |  |  | Formular: per = DMX_value /655.35 |
| 11          | 0-65535  | 0-100%   | <b>Cool White</b>                 |
| 12          |  |  | Formular: per = DMX_value /655.35 |
| 13          | 0-65535  | 0-100%   | <b>Crossfade</b>                  |
| 14          |  |  | Formular: per = DMX_value /655.35 |
| 15          | 0-65535  | X*65535  | <b>X Coordinate</b>               |
| 16          |  |  | Formular: X = DMX_value /65535    |
| 17          | 0-65535  | Y*65535  | <b>Y Coordinate</b>               |
| 18          |  |  | Formular: Y = DMX_value /655.35   |
| 19          | 0-20<br>20-40<br>40-60<br>60-80<br>80-100<br>100-255 | 0-20%<br>20-40%<br>40-60%<br>60-80%<br>80-100%<br>100% | <b>Fan Speed</b>                  |

|                |                            |
|----------------|----------------------------|
| <b>MODE 22</b> | <b>HSI+XY 8 Bit - 7 CH</b> |
|----------------|----------------------------|

| DMX Channel | DMX Value                                       | Range  | Function   |
|-------------|---|--|--|
| 1           | 0-51<br>51-102<br>102-153<br>153-204<br>204-255 | 0-20%<br>20-40%<br>40-60%<br>60-80%<br>80-100% | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |

|   |  |  |  |
|---|--|--|--|
| 2 | 0-255  | 0-360  | <b>Hue</b><br>Closed - Open<br>Formular: HUE = DMX_value *1.4118       |
| 3 | 0-255  | 0-100%   | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
| 4 | 0-255  | 0-100%   | <b>Crossfade</b><br>Formular: per = DMX_value *0.392                   |
| 5 | 0-255  | X*255  | <b>X Coordinate</b><br>Formular: X = DMX_value /255                    |
| 6 | 0-255  | Y*255  | <b>Y Coordinate</b><br>Formular: Y = DMX_value /255                    |
| 7 | 0-20<br>20-40<br>40-60<br>60-80<br>80-100<br>100-255 | 0-20%<br>20-40%<br>40-60%<br>60-80%<br>80-100%<br>100% | <b>Fan Speed</b>   |

**MODE 23 HSI+XY 16 Bit - 13 CH**

| DMX Channel | DMX Value  | Range  | Function  |
|-------------|--|--|---|
| 1           | 0-65535  | 0-100%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value /655.35     |
| 2           |  |  |   |
| 3           | 0-65535  | 0-360  | <b>Hue</b><br>Closed - Open<br>Formular: HUE = DMX_value *0.005493      |
| 4           |  |  |   |
| 5           | 0-65535  | 0-100%   | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value /655.35 |
| 6           |  |  |   |
| 7           | 0-65535  | 0-100%   | <b>Crossfade</b><br>Formular: per = DMX_value /655.35                   |
| 8           |  |  |   |
| 9           | 0-65535  | X*65535  | <b>X Coordinate</b><br>Formular: X = DMX_value /65535                   |
| 10          |  |  |   |
| 11          | 0-65535  | Y*65535  | <b>Y Coordinate</b><br>Formular: Y = DMX_value /65535                   |
| 12          |  |  |   |
| 13          | 0-20<br>20-40<br>40-60<br>60-80<br>80-100<br>100-255 | 0-20%<br>20-40%<br>40-60%<br>60-80%<br>80-100%<br>100% | <b>Fan Speed</b>  |

**MODE 24 EFFECT - CCT Chase 8 CH**

| DMX Channel | DMX Value                                       | Range  | Function   |
|-------------|---|--|--|
| 1           | 0-51<br>51-102<br>102-153<br>153-204<br>204-255 | 0-20%<br>20-40%<br>40-60%<br>60-80%<br>80-100% | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392         |
| 2           | 000-014   |  |  |
| 3           | 0-255   | 2700-10000K                                    | <b>CCT Start</b><br>Formular: Color Temperature = 2700 + DMX_value *28.627 |



|   |         |                                  |   |
|---|---------|----------------------------------|---|
| 4 | 0-255   | 2700-10000K                      | <b>CCT Stop</b><br>Formular: Color Temperature = 2700 + DMX_value *28.627 |
| 5 | 0-20    | 0%                               | <b>Green / Magenta</b>  |
|   | 21-30   | Full Magenta(100%)               |   |
|   | 31-129  | Magenta(99%-1%)                  |   |
|   | 130-140 | 0%                               |   |
|   | 141-240 | Green(1%-99%)                    |   |
|   | 241-255 | Green(100%)                      |   |
| 6 | 10-19   | Loop time increase<br>60 seconds | <b>Loop time (max 600 second)</b>   |
|   | 20-29   | 120 seconds                      |   |
|   | 30-39   | 180 seconds                      |   |
|   | 40-49   | 240 seconds                      |   |
|   | 50-59   | 300 seconds                      |   |
|   | 60-69   | 360 seconds                      |   |
|   | 70-79   | 420 seconds                      |   |
|   | 80-89   | 480 seconds                      |   |
|   |         | 540 seconds                      |   |
|   |         | 600 seconds                      |   |
| 7 | 0-50    | 0-50 seconds                     | <b>Second/Loop</b>  |
|   | 50-100  | 50-100 seconds                   |   |
|   | 100-150 | 100-150 seconds                  |   |
|   | 150-200 | 150-200 seconds                  |   |
|   | 200-255 | 200-255 seconds                  |   |
|   |         |                                  |   |
| 8 | 0-20    | 0-20%                            | <b>Fan Speed</b>  |
|   | 20-40   | 20-40%                           |   |
|   | 40-60   | 40-60%                           |   |
|   | 60-80   | 60-80%                           |   |
|   | 80-100  | 80-100%                          |   |
|   |         |                                  |   |
|   |         | 100%                             |   |

| <b>MODE 24 EFFECT - Color Chase 8 CH</b> |                  |              |  |
|--|------------------|--------------|--|
| <b>DMX Channel</b>                       | <b>DMX Value</b> | <b>Range</b> | <b>Function</b>  |
| 1  | 0-255            | 0-100%       | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392     |
| 2  | 015-026          |              | <b>Color Chase</b>   |
| 3  | 0-42             | 0°-60°       | <b>HUE Start</b><br>Formular: HUE = DMX_value *1.4118                  |
|  | 42-85            | 60°-120°     |  |
|  | 85-127           | 120°-180°    |  |
|  | 127-170          | 180°-240°    |  |
|  | 170-212          | 240°-300°    |  |
|  | 212-255          | 300°-360°    |  |
| 4  | 0-42             | 0°-60°       | <b>HUE Stop</b><br>Formular: HUE = DMX_value *1.4118                   |
|  | 42-85            | 60°-120°     |  |
|  | 85-127           | 120°-180°    |  |
|  | 127-170          | 180°-240°    |  |
|  | 170-212          | 240°-300°    |  |
|  | 212-255          | 300°-360°    |  |
| 5  | 0-255            | 0-100%       | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |

|   |  |  |                                     |
|---|--|--|-------------------------------------|
| 6 | 10-19<br>20-29<br>30-39<br>40-49<br>50-59<br>60-69<br>70-79<br>80-89 | 60 seconds<br>120 seconds<br>180 seconds<br>240 seconds<br>300 seconds<br>360 seconds<br>420 seconds<br>480 seconds<br>540 seconds | <b>Loop time (max 600 second)</b>   |
| 7 | 0-50<br>50-100<br>100-150<br>150-200<br>200-255                      | 0-50 seconds<br>50-100 seconds<br>100-150 seconds<br>150-200 seconds<br>200-255 seconds  | <b>Second/Loop (max 600 second)</b> |
| 8 | 0-20<br>20-40<br>40-60<br>60-80<br>80-100<br>100-255                 | 0-20%<br>20-40%<br>40-60%<br>60-80%<br>80-100%<br>100%   | <b>Fan Speed</b>                    |

| <b>MODE 24 EFFECT - Fireworks 8 CH</b> |  |  |  |
|--|--|--|--|
| <b>DMX Channel</b>                     | <b>DMX Value</b>   | <b>Range</b>   | <b>Function</b>  |
| 1                                      | 0-51<br>51-102<br>102-153<br>153-204<br>204-255          | 0-20%<br>20-40%<br>40-60%<br>60-80%<br>80-100%                         | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392     |
| 2                                      | 027-039  |  | <b>Fireworks</b>   |
| 3                                      | 0-42<br>42-85<br>85-127<br>127-170<br>170-212<br>212-255 | 0°-60°<br>60°-120°<br>120°-180°<br>180°-240°<br>240°-300°<br>300°-360° | <b>HUE Start</b><br>Formular: HUE = DMX_value *1.4118                  |
| 4                                      | 0-42<br>42-85<br>85-127<br>127-170<br>170-212<br>212-255 | 0°-60°<br>60°-120°<br>120°-180°<br>180°-240°<br>240°-300°<br>300°-360° | <b>HUE Stop</b><br>Formular: HUE = DMX_value *1.4118                   |
| 5                                      | 0-255  | 0-100%   | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
| 6                                      | 0-255  | 1-60   | <b>Explosion/min</b><br>Formular: speed = dmx_value/4.25               |
| 7                                      | 0-255  | 5-95   | <b>Duration</b><br>Formular: duty = 5+DMX_value *0.353                 |
| 12                                     | 0-20<br>20-40<br>40-60<br>60-80<br>80-100<br>100-255     | 0-20%<br>20-40%<br>40-60%<br>60-80%<br>80-100%<br>100%                 | <b>Fan Speed</b>   |

| MODE 24     |           | EFFECT - Fire | 5 CH   |
|-------------|-----------|---------------|--|
| DMX Channel | DMX Value | Range         | Function   |
| 1           | 0-51      | 0-20%         | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|             | 51-102    | 20-40%        |  |
|             | 102-153   | 40-60%        |  |
|             | 153-204   | 60-80%        |  |
|             | 204-255   | 80-100%       |  |
| 2           | 040-052   |               | <b>Fire</b>  |
| 3           | 0-255     | 0-100%        | <b>Wind Speed</b><br>Formular: per = DMX_value *0.392              |
| 4           | 0-49      | 0-49          | <b>Fire Type: Candle</b>   |
|             | 50-99     | 50-99         | <b>Fire Type: Campfire</b>   |
|             | 100-149   | 100-149       | <b>Fire Type: bonfire</b>  |
| 5           | 0-20      | 0-20%         | <b>Fan Speed</b>   |
|             | 20-40     | 20-40%        |  |
|             | 40-60     | 40-60%        |  |
|             | 60-80     | 60-80%        |  |
|             | 80-100    | 80-100%       |  |
|             | 100-255   | 100%          |  |

| MODE 24     |           | EFFECT - Explosion | 6 CH   |
|-------------|-----------|--------------------|--|
| DMX Channel | DMX Value | Range              | Function   |
| 1           | 0-51      | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|             | 51-102    | 20-40%             |  |
|             | 102-153   | 40-60%             |  |
|             | 153-204   | 60-80%             |  |
|             | 204-255   | 80-100%            |  |
| 2           | 053-065   |                    | <b>Explosion</b>   |
| 3           | 0-255     | 1-60               | <b>Explosion/min</b><br>Formular: speed = DMX_value /4.25          |
| 4           | 0-255     | 5-95               | <b>Duration</b><br>Formular: duty = DMX_value *0.353               |
| 5           | 0-49      | 0-49               | <b>Fire Type: Walm</b>   |
|             | 50-99     | 50-99              | <b>Fire Type: Cool</b>   |
|             | 100-149   | 100-149            | <b>Fire Type: Colors</b>   |
| 6           | 0-20      | 0-20%              | <b>Fan Speed</b>   |
|             | 20-40     | 20-40%             |  |
|             | 40-60     | 40-60%             |  |
|             | 60-80     | 60-80%             |  |
|             | 80-100    | 80-100%            |  |
|             | 100-255   | 100%               |  |

| MODE 24     |           | EFFECT - Lightning | 6 CH  |
|-------------|-----------|--------------------|---|
| DMX Channel | DMX Value | Range              | Function  |
| 1           | 0-51      | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392  |
|             | 51-102    | 20-40%             |   |
|             | 102-153   | 40-60%             |   |
|             | 153-204   | 60-80%             |   |
|             | 204-255   | 80-100%            |   |
| 2           | 066-077   |                    | <b>Lightning</b>  |
| 3           | 0-255     | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+DMX_value *28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255 --> 10000K |

|   |         |                    |   |
|---|---------|--------------------|---|
| 4 | 0-20    | 0%                 | <b>Green / Magenta</b>  |
|   | 21-30   | Full Magenta(100%) |   |
|   | 31-129  | Magenta(99%-1%)    |   |
|   | 130-140 | 0%                 |   |
|   | 141-240 | Green(1%-99%)      |   |
|   | 241-255 | Green(100%)        |   |
| 5 | 0-255   | 0-60               | <b>Intervals (Second)</b><br>Formular: time = DMX_value /4.25 |
| 6 | 0-20    | 0-20%              | <b>Fan Speed</b>  |
|   | 20-40   | 20-40%             |   |
|   | 40-60   | 40-60%             |   |
|   | 60-80   | 60-80%             |   |
|   | 80-100  | 80-100%            |   |
|   | 100-255 | 100%               |   |

|                |                           |             |
|----------------|---------------------------|-------------|
| <b>MODE 24</b> | <b>EFFECT - Paparazzi</b> | <b>7 CH</b> |
|----------------|---------------------------|-------------|

| DMX Channel | DMX Value | Range         | Function   |   |                    |
|-------------|-----------|---------------|--|---|--------------------|
| 1           | 0-51      | 0-20%         | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392   |   |                    |
|             | 51-102    | 20-40%        |  |   |                    |
|             | 102-153   | 40-60%        |  |   |                    |
|             | 153-204   | 60-80%        |  |   |                    |
|             | 204-255   | 80-100%       |  |   |                    |
| 2           | 078-090   |               | <b>Paparazzi</b>   |   |                    |
| 3           | 0-255     | 2700-10000K   | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+<br>DMX_value*28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255 --> 10000K |   |                    |
|             |           |               | <b>Green / Magenta</b>   |   |                    |
|             |           |               |  | 0-20  | 0%                 |
|             |           |               |  | 21-30   | Full Magenta(100%) |
|             |           |               |  | 31-129  | Magenta(99%-1%)    |
| 130-140     | 0%        |               |  |   |                    |
| 4           | 141-240   | Green(1%-99%) |  |   |                    |
|             | 241-255   | Green(100%)   |  |   |                    |
|             | 5         | 0-255         | 0-25Hz   | <b>Frequency</b><br>Formular: frequency = DMX_value /10.2 |                    |
|             | 6         | 0-49          | 0-49   | <b>Bulb Type: Slow</b>                                    |                    |
|             |           | 50-99         | 50-99  | <b>Bulb Type: Medium</b>                                  |                    |
| 100-149     |           | 100-149       | <b>Bulb Type: Fast</b>   |   |                    |
| 150-199     |           | 150-199       | <b>Bulb Type: Modern</b>   |   |                    |
| 7           | 0-20      | 0-20%         | <b>Fan Speed</b>   |   |                    |
|             | 20-40     | 20-40%        |  |   |                    |
|             | 40-60     | 40-60%        |  |   |                    |
|             | 60-80     | 60-80%        |  |   |                    |
|             | 80-100    | 80-100%       |  |   |                    |
|             | 100-255   | 100%          |  |   |                    |

| MODE 24     |           | EFFECT - Pulse | 6 CH   |  |
|-------------|-----------|----------------|--|--|
| DMX Channel | DMX Value | Range          | Function   |  |
| 1           | 0-51      | 0-20%          | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392     |  |
|             | 51-102    | 20-40%         |  |  |
|             | 102-153   | 40-60%         |  |  |
|             | 153-204   | 60-80%         |  |  |
|             | 204-255   | 80-100%        |  |  |
| 2           | 091-103   |                | <b>Pulse</b>   |  |
| 3           | 0-255     | 0-360          | <b>HUE</b><br>Formular: HUE = DMX_value *1.4118                        |  |
| 4           | 0-255     | 0-100%         | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |  |
| 5           | 0-255     | 1-200          | <b>Pulses/min</b><br>Formular: frequency = 1+DMX_value / 1.281         |  |
| 6           | 0-20      | 0-20%          | <b>Fan Speed</b>   |  |
|             | 20-40     | 20-40%         |  |  |
|             | 40-60     | 40-60%         |  |  |
|             | 60-80     | 60-80%         |  |  |
|             | 80-100    | 80-100%        |  |  |
|             | 100-255   | 100%           |  |  |

| MODE 24     |           | EFFECT - Police | 7 CH   |  |
|-------------|-----------|-----------------|--|--|
| DMX Channel | DMX Value | Range           | Function   |  |
| 1           | 0-51      | 0-20%           | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |  |
|             | 51-102    | 20-40%          |  |  |
|             | 102-153   | 40-60%          |  |  |
|             | 153-204   | 60-80%          |  |  |
|             | 204-255   | 80-100%         |  |  |
| 2           | 104-116   |                 | <b>Police</b>  |  |
| 3           | 0-9       | 0-9             | <b>Colors:</b> Red, Blue & White                                   |  |
|             | 10--19    | 10--19          | <b>Colors:</b> Red & Blue  |  |
|             | 20--29    | 20--29          | <b>Colors:</b> Red & White   |  |
|             | 30--39    | 30--39          | <b>Colors:</b> Blue & White  |  |
|             | 40--49    | 40--49          | <b>Colors:</b> Blue  |  |
|             | 50--59    | 50--59          | <b>Colors:</b> Red   |  |
|             | 60--69    | 60--69          | <b>Colors:</b> Amber   |  |
| 4           | 0-49      | 0-49            | <b>Flash/cycle:</b> 1  |  |
|             | 50-99     | 50-99           | <b>Flash/cycle:</b> 2  |  |
|             | 100-149   | 100-149         | <b>Flash/cycle:</b> 3  |  |
|             | 150-199   | 150-199         | <b>Flash/cycle:</b> 4  |  |
| 5           | 0-255     | 0-100%          | <b>Speed</b><br>Formular: per = DMX_value *0.392                   |  |
| 6           | 0-255     | 5-95            | <b>Duration</b><br>Formular: duty = 5+ DMX_value *0.353            |  |
| 7           | 0-20      | 0-20%           | <b>Fan Speed</b>   |  |
|             | 20-40     | 20-40%          |  |  |
|             | 40-60     | 40-60%          |  |  |
|             | 60-80     | 60-80%          |  |  |
|             | 80-100    | 80-100%         |  |  |
|             | 100-255   | 100%            |  |  |

| MODE 24     |           | EFFECT - Strobe Color |  | 7 CH |  |
|-------------|-----------|-----------------------|--|------|--|
| DMX Channel | DMX Value | Range                 | Function   |      |  |
| 1           | 0-51      | 0-20%                 | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392     |      |  |
|             | 51-102    | 20-40%                |  |      |  |
|             | 102-153   | 40-60%                |  |      |  |
|             | 153-204   | 60-80%                |  |      |  |
|             | 204-255   | 80-100%               |  |      |  |
| 2           | 117-128   |                       | <b>Strobe Color</b>  |      |  |
| 3           | 0-255     | 0-360                 | <b>HUE</b><br>Formular: HUE = DMX_value *1.4118                        |      |  |
| 4           | 0-255     | 0-100                 | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |      |  |
| 5           | 0-255     | 0-25Hz                | <b>Frequency</b><br>Formular: frequency = DMX_value /10.2              |      |  |
| 6           | 0-255     | 5-95                  | <b>Duration</b><br>Formular: duty = 5+ DMX_value *0.353                |      |  |
| 7           | 0-20      | 0-20%                 | <b>Fan Speed</b>   |      |  |
|             | 20-40     | 20-40%                |  |      |  |
|             | 40-60     | 40-60%                |  |      |  |
|             | 60-80     | 60-80%                |  |      |  |
|             | 80-100    | 80-100%               |  |      |  |
|             | 100-255   | 100%                  |  |      |  |

| MODE 24     |           | EFFECT - Strobe CCT |  | 7 CH |  |
|-------------|-----------|---------------------|--|------|--|
| DMX Channel | DMX Value | Range               | Function   |      |  |
| 1           | 0-51      | 0-20%               | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392   |      |  |
|             | 51-102    | 20-40%              |  |      |  |
|             | 102-153   | 40-60%              |  |      |  |
|             | 153-204   | 60-80%              |  |      |  |
|             | 204-255   | 80-100%             |  |      |  |
| 2           | 129-141   |                     | <b>Strobe CCT</b>  |      |  |
| 3           | 0-255     | 2700-10000K         | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+DMX_value *28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |      |  |
| 4           | 0-20      | 0%                  | <b>Green / Magenta</b>   |      |  |
|             | 21-30     | Full Magenta(100%)  |  |      |  |
|             | 31-129    | Magenta(99%-1%)     |  |      |  |
|             | 130-140   | 0%                  |  |      |  |
|             | 141-240   | Green(1%-99%)       |  |      |  |
|             | 241-255   | Green(100%)         |  |      |  |
| 5           | 0-255     | 0-25Hz              | <b>Frequency</b><br>Formular: frequency = DMX_value /10.2  |      |  |
| 6           | 0-255     | 5-95                | <b>Duration</b><br>Formular: duty = 5+ DMX_value *0.353  |      |  |
| 7           | 0-20      | 0-20%               | <b>Fan Speed</b>   |      |  |
|             | 20-40     | 20-40%              |  |      |  |
|             | 40-60     | 40-60%              |  |      |  |
|             | 60-80     | 60-80%              |  |      |  |
|             | 80-100    | 80-100%             |  |      |  |
|             | 100-255   | 100%                |  |      |  |

**MODE 25**

**Macro - 3 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |
| 2           | 0-46      | 0-46    | Pls check: <a href="#">Appendix I Macro</a>                        |
| 3           | 0-20      | 0-20%   | <b>Fan Speed</b>   |
|             | 20-40     | 20-40%  |  |
|             | 40-60     | 40-60%  |  |
|             | 60-80     | 60-80%  |  |
|             | 80-100    | 80-100% |  |
|             | 100-255   | 100%    |  |

**DMX Protocol Map**

Suit for Luxed-P12, Luxed Pro-P12

Appendix I

Appendix II

Macro

GEL Filter



**WALL MODE**

**MODE 1      CCT 8 Bit - 3 CH**

| DMX Channel | DMX Value | Range              | Function   |
|-------------|-----------|--------------------|--|
| 1           | 0-51      | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392   |
|             | 51-102    | 20-40%             |  |
|             | 102-153   | 40-60%             |  |
|             | 153-204   | 60-80%             |  |
|             | 204-255   | 80-100%            |  |
| 2           | 0-255     | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br><br>Formular:<br>Color Temperature = 2700+DMX_value *28.627<br><br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
|             |           |                    |  |
| 3           | 0-20      | 0                  | <b>Green / Magenta</b>   |
|             | 21-30     | Full Magenta(100%) |  |
|             | 30-130    | Magenta(99%-1%)    |  |
|             | 130-140   | 0%                 |  |
|             | 141-240   | Green(1%-99%)      |  |
|             | 241-255   | Green(100%)        |  |

**MODE 2      CCT 16 Bit - 6 CH**

| DMX Channel | DMX Value   | Range              | Function                                  |
|-------------|-------------|--------------------|---|
| 1           | 0-65535     | 0-100%             | <b>Dimmer</b><br>Closed - Open            |
| 2           |             |                    |   |
| 3           |             |                    |   |
| 4           | 0-65535     | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open |
| 5           |             |                    |   |
| 6           |             |                    |   |
| 5           | 0-5000      | 0%                 | <b>Green / Magenta</b>                    |
|             | 5001-10000  | Full Magenta(100%) |   |
|             | 10001-29999 | Magenta(99%-1%)    |   |
| 6           | 30000-40000 | 0%                 |   |
|             | 40001-59999 | Green(1%-99%)      |   |
|             | 60000-65535 | Green(100%)        |   |

**MODE 3      HSI 8 Bit - 3 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392     |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |
| 2           | 0-255     | 0-360   | <b>Hue</b><br>Closed - Open<br>Formular: HUE = DMX_value *1.4118       |
| 3           | 0-255     | 0-100%  | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |

**MODE 4      HSI 16 Bit - 6 CH**

| DMX Channel | DMX Value | Range  | Function      |
|-------------|-----------|--------|---------------|
| 1           | 0-65535   | 0-100% | <b>Dimmer</b> |



|   |         |        |                   |
|---|---------|--------|-------------------|
| 2 | 0-65535 | 0-100% | Closed - Open     |
| 3 | 0-65535 | 0-360  | <b>Hue</b>        |
| 4 |         |        | Closed - Open     |
| 5 | 0-65535 | 0-100% | <b>Saturation</b> |
| 6 |         |        | Closed - Open     |

**MODE 5 XY 8 Bit - 3 CH**

| DMX Channel | DMX Value | Range   | Function  |
|-------------|-----------|---------|---|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value * 0.392 |
|             | 51-102    | 20-40%  |   |
|             | 102-153   | 40-60%  |   |
|             | 153-204   | 60-80%  |   |
|             | 204-255   | 80-100% |   |
| 2           | 0-255     | X*255   | <b>X Coordinate</b><br>Formular: X = DMX_value / 255                |
| 3           | 0-255     | Y*255   | <b>Y Coordinate</b><br>Formular: Y = DMX_value / 255                |

**MODE 6 XY 16 Bit - 6 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-65535   | 0-100%  | <b>Dimmer</b><br>Closed - Open                         |
| 2           |           |         |  |
| 3           |           |         |  |
| 4           | 0-65535   | X*65535 | <b>X Coordinate</b><br>Formular: X = DMX_value / 65535 |
| 5           | 0-65535   | Y*65535 | <b>Y Coordinate</b><br>Formular: Y = DMX_value / 65535 |
| 6           |           |         |  |

**MODE 7 RGBWW 8 Bit - 6 CH**

| DMX Channel | DMX Value | Range   | Function  |
|-------------|-----------|---------|---|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value * 0.392 |
|             | 51-102    | 20-40%  |   |
|             | 102-153   | 40-60%  |   |
|             | 153-204   | 60-80%  |   |
|             | 204-255   | 80-100% |   |
| 2           | 0-255     | 0-100%  | <b>Red</b><br>Formular: per = DMX_value * 0.392                     |
| 3           | 0-255     | 0-100%  | <b>Green</b><br>Formular: per = DMX_value * 0.392                   |
| 4           | 0-255     | 0-100%  | <b>Blue</b><br>Formular: per = DMX_value * 0.392                    |
| 5           | 0-255     | 0-100%  | <b>Warm White</b><br>Formular: per = DMX_value * 0.392              |
| 6           | 0-255     | 0-100%  | <b>Cool White</b><br>Formular: per = DMX_value * 0.392              |

**MODE 8 RGBWW 16 Bit - 12 CH**

| DMX Channel | DMX Value | Range  | Function  |
|-------------|-----------|--------|---|
| 1           | 0-65535   | 0-100% | <b>Dimmer</b><br>Closed - Open                          |
| 2           |           |        |   |
| 3           |           |        |   |
| 4           | 0-65535   | 0-100% | <b>Red</b><br>Formular: per = DMX_value / 655.35        |
| 5           | 0-65535   | 0-100% | <b>Green</b><br>Formular: per = DMX_value / 655.35      |
| 6           |           |        |   |
| 7           | 0-65535   | 0-100% | <b>Blue</b><br>Formular: per = DMX_value / 655.35       |
| 8           |           |        |   |
| 9           | 0-65535   | 0-100% | <b>Warm White</b><br>Formular: per = DMX_value / 655.35 |
| 10          |           |        |   |
| 11          | 0-65535   | 0-100% | <b>Cool White</b><br>Formular: per = DMX_value / 655.35 |
| 12          |           |        |   |

**MODE 9 GEL 8 Bit - 4 CH**

| DMX Channel | DMX Value | Range | Function |
|-------------|-----------|-------|----------|
|-------------|-----------|-------|----------|

|   |         |          |  |
|---|---------|----------|--|
| 1 | 0-51    | 0-20%    | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|   | 51-102  | 20-40%   |  |
|   | 102-153 | 40-60%   |  |
|   | 153-204 | 60-80%   |  |
|   | 204-255 | 80-100%  |  |
| 2 | 0-127   | 3200K    | <b>3200K</b>   |
|   | 128-255 | 5600K    | <b>5600K</b>   |
| 3 | 0-127   | Group I  | <b>Select Group I</b>  |
|   | 128-255 | Group II | <b>Select Group II</b>   |
| 4 | 0-121   | 1-122    | <b>GEL Filter Number in Group I</b>                                |
|   | 0-190   | 123-313  | <b>GEL Filter Number in Group II</b>                               |

**MODE 10 CCT+RGBWW 8 Bit - 9 CH**

| DMX Channel | DMX Value | Range              | Function   |
|-------------|-----------|--------------------|--|
| 1           | 0-51      | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392   |
|             | 51-102    | 20-40%             |  |
|             | 102-153   | 40-60%             |  |
|             | 153-204   | 60-80%             |  |
|             | 204-255   | 80-100%            |  |
| 2           | 0-255     | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+DMX_value *28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
| 3           | 0-20      | 0%                 | <b>Green / Magenta</b>   |
|             | 21-30     | Full Magenta(100%) |  |
|             | 31-129    | Magenta(99%-1%)    |  |
|             | 130-140   | 0%                 |  |
|             | 141-240   | Green(1%-99%)      |  |
|             | 241-255   | Green(100%)        |  |
| 4           | 0-255     | 0-100%             | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW, smooth fade  |
| 5           | 0-255     | 0-100%             | <b>Red</b><br>Formular: per = DMX_value *0.392   |
| 6           | 0-255     | 0-100%             | <b>Green</b><br>Formular: per = DMX_value *0.392   |
| 7           | 0-255     | 0-100%             | <b>Blue</b><br>Formular: per = DMX_value *0.392  |
| 8           | 0-255     | 0-100%             | <b>Warm White</b><br>Formular: per = DMX_value *0.392  |
| 9           | 0-255     | 0-100%             | <b>Cool White</b><br>Formular: per = DMX_value *0.392  |

**MODE 11 :CCT+RGBWW 16 Bit - 18 CH**

| DMX Channel | DMX Value   | Range              | Function   |                        |
|-------------|-------------|--------------------|--|------------------------|
| 1           | 0-65535     | 0-100%             | <b>Dimmer</b><br>Closed - Open                           |                        |
| 2           |             |                    |  |                        |
| 3           |             |                    |  |                        |
| 4           |             |                    |  |                        |
| 5           | 0-5000      | 0%                 | <b>Color Temperature</b><br>Closed - Open                |                        |
|             | 5001-10000  | Full Magenta(100%) |  |                        |
|             | 10001-29999 | Magenta(99%-1%)    |  |                        |
|             | 6           | 30000-40000        |  | 0%                     |
|             |             | 40001-59999        |  | Green(1%-99%)          |
| 6           | 60000-65535 | Green(100%)        |  |                        |
|             | 7           | 0-65535            | 0-100%   | <b>Green / Magenta</b> |
| 8           |             |                    |  |                        |
| 8           | 0-65535     | 0-100%             | <b>Crossfade</b><br>0 full CCT, 65535 full RGBWW, smooth |                        |

|    |         |        |                                   |
|----|---------|--------|-----------------------------------|
| 9  | 0-65535 | 0-100% | <b>Red</b>                        |
| 10 |         |        | Formular: per = DMX_value /655.35 |
| 11 | 0-65535 | 0-100% | <b>Green</b>                      |
| 12 |         |        | Formular: per = DMX_value /655.35 |
| 13 | 0-65535 | 0-100% | <b>Blue</b>                       |
| 14 |         |        | Formular: per = DMX_value /655.35 |

|    |         |        |                                   |
|----|---------|--------|-----------------------------------|
| 15 | 0-65535 | 0-100% | <b>Warm White</b>                 |
| 16 |         |        | Formular: per = DMX_value /655.35 |
| 17 | 0-65535 | 0-100% | <b>Cool White</b>                 |
| 18 |         |        | Formular: per = DMX_value /655.35 |

**MODE 12 CCT+HSI 8 Bit - 6 CH**

| DMX Channel | DMX Value   | Range              | Function   |
|-------------|-------------|--------------------|--|
| 1           | 0-51        | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392   |
|             | 51-102      | 20-40%             |  |
|             | 102-153     | 40-60%             |  |
|             | 153-204     | 60-80%             |  |
|             | 204-255     | 80-100%            |  |
| 2           | 0-255       | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+DMX_value *28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
| 3           | 0-20        | 0%                 | <b>Green / Magenta</b>   |
|             | 21-30       | Full Magenta(100%) |  |
|             | 31-129      | Magenta(99%-1%)    |  |
|             | 130-140     | 0%                 |  |
|             | 141-240     | Green(1%-99%)      |  |
| 241-255     | Green(100%) |                    |  |
| 4           | 0-255       | 0-100%             | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW, smooth fade  |
| 5           | 0-255       | 0-360              | <b>HUE</b><br>Formular: HUE = DMX_value *1.4118  |
| 6           | 0-255       | 0-100%             | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392   |

**MODE 13 CCT+HSI 16 Bit - 12 CH**

| DMX Channel | DMX Value   | Range              | Function   |
|-------------|-------------|--------------------|--|
| 1           | 0-65535     | 0-100%             | <b>Dimmer</b><br>Closed – Open                           |
| 2           |             |                    |  |
| 3           |             |                    |  |
| 4           | 0-65535     | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open                |
| 5           |             |                    |  |
| 5           | 0-5000      | 0%                 | <b>Green / Magenta</b>                                   |
|             | 5001-10000  | Full Magenta(100%) |  |
|             | 10001-29999 | Magenta(99%-1%)    |  |
| 6           | 30000-40000 | 0%                 | <b>Green / Magenta</b>                                   |
|             | 40001-59999 | Green(1%-99%)      |  |
|             | 60000-65535 | Green(100%)        |  |
| 7           | 0-65535     | 0-100%             | <b>Crossfade</b><br>0 full CCT, 65535 full RGBWW, smooth |
| 8           |             |                    |  |
| 9           |             |                    |  |
| 10          | 0-65535     | 0-360              | <b>HUE</b><br>Formular: HUE = DMX_value *0.005493        |
| 11          |             |                    |  |
| 12          | 0-65535     | 0-100%             | <b>Saturation</b><br>Closed - Open                       |

**MODE 14 CCT+XY 8 Bit - 6 CH**

| DMX Channel | DMX Value                                       | Range  | Function   |
|-------------|---|--|--|
| 1           | 0-51<br>51-102<br>102-153<br>153-204<br>204-255 | 0-20%<br>20-40%<br>40-60%<br>60-80%<br>80-100% | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392   |
| 2           | 0-255   | 2700-10000K                                    | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+DMX_value *28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
| 3           | 0-20  | 0%   | <b>Green / Magenta</b>   |
|             | 21-30   | Full Magenta(100%)                             |  |
|             | 31-129  | Magenta(99%-1%)                                |  |
|             | 130-140   | 0%   |  |
|             | 141-240   | Green(1%-99%)                                  |  |
| 241-255     | Green(100%)                                     |  |  |
| 4           | 0-255   | 0-100%   | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW, smooth fade  |
| 5           | 0-255   | X*255  | <b>X Coordinate</b><br>Formular: X = DMX_value /255  |
| 6           | 0-255   | Y*255  | <b>Y Coordinate</b><br>Formular: Y = DMX_value /255  |

**MODE 15 CCT+XY 16 Bit - 12 CH**

| DMX Channel | DMX Value   | Range   | Function                             |
|-------------|-------------|---------|--------------------------------------|
| 1           | 0-65535     | 0-100%  | <b>Dimmer</b>                        |
| 2           |             |         | Closed - Open                        |
| 3           |             |         | <b>Color Temperature</b>             |
| 4           |             |         |                                      |
| 5           | 0-5000      | 0-100%  | <b>Green / Magenta</b>               |
|             | 5001-10000  | 0-100%  |                                      |
|             | 10001-29999 | 0-100%  |                                      |
| 6           | 30000-40000 | 0%      |                                      |
|             | 40001-59999 | 0-100%  |                                      |
|             | 60000-65535 | 0-100%  |                                      |
| 7           | 0-65535     | 0-100%  | <b>Crossfade</b>                     |
| 8           |             |         | 0 full CCT, 65535 full RGBWW, smooth |
| 9           | 0-65535     | X*65535 | <b>X Coordinate</b>                  |
| 10          |             |         | Formular: X = DMX_value /65535       |
| 11          |             |         | <b>Y Coordinate</b>                  |
| 12          | 0-65535     | Y*65535 | Formular: Y = DMX_value /65535       |

**MODE 16 CCT+GEL 8 Bit - 7 CH**

| DMX Channel | DMX Value                                       | Range  | Function   |
|-------------|---|--|--|
| 1           | 0-51<br>51-102<br>102-153<br>153-204<br>204-255 | 0-20%<br>20-40%<br>40-60%<br>60-80%<br>80-100% | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |

|   |         |                    |   |
|---|---------|--------------------|---|
| 2 | 0-255   | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+DMX_value<br>*28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
| 3 | 0-20    | 0%                 | <b>Green / Magenta</b>  |
|   | 21-30   | Full Magenta(100%) |   |
|   | 31-129  | Magenta(99%-1%)    |   |
|   | 130-140 | 0%                 |   |
|   | 141-240 | Green(1%-99%)      |   |
|   | 241-255 | Green(100%)        |   |
| 4 | 0-255   | 0-100%             | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW, smooth<br>fade  |
| 5 | 0-127   | 3200K              | <b>3200K</b>  |
|   | 128-255 | 5600K              | <b>5600K</b>  |
| 6 | 0-127   | Group I            | <b>Select Group I</b>   |
|   | 128-255 | Group II           | <b>Select Group II</b>  |
| 7 | 0-121   | 1-122              | <b>GEL Filter Number in Group I</b>   |
|   | 0-190   | 123-313            | <b>GEL Filter Number in Group II</b>  |

**MODE 17 CCT+GEL 16 Bit - 11 CH**

| DMX Channel | DMX Value   | Range       | Function   |             |                    |
|-------------|-------------|-------------|--|-------------|--------------------|
| 1           | 0-65535     | 0-100%      | <b>Dimmer</b><br>Closed - Open                           |             |                    |
| 2           |             |             |  |             |                    |
| 3           |             |             |  |             |                    |
| 4           | 0-65535     | 2700-10000K | <b>Color Temperature</b><br>Closed - Open                |             |                    |
| 5           |             |             |  | 0-5000      | 0%                 |
|             |             |             |  | 5001-10000  | Full Magenta(100%) |
|             |             |             |  | 10001-29999 | Magenta(99%-1%)    |
| 6           |             |             |  | 30000-40000 | 0%                 |
|             |             |             |  | 40001-59999 | Green(1%-99%)      |
|             | 60000-65535 | Green(100%) |  |             |                    |
| 7           | 0-65535     | 0-100%      | <b>Crossfade</b><br>0 full CCT, 65535 full RGBWW, smooth |             |                    |
| 8           |             |             |  |             |                    |
| 9           | 0-127       | 3200K       | <b>3200K</b>   |             |                    |
|             | 128-255     | 5600K       | <b>5600K</b>   |             |                    |
| 10          | 0-127       | Group I     | <b>Select Group I</b>                                    |             |                    |
|             | 128-255     | Group II    | <b>Select Group II</b>                                   |             |                    |
| 11          | 0-121       | 1-122       | <b>GEL Filter Number in Group I</b>                      |             |                    |
|             | 0-190       | 123-313     | <b>GEL Filter Number in Group II</b>                     |             |                    |

**MODE 18 RGBWW+HSI 8 Bit - 9 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |
| 2           | 0-255     | 0-100%  | <b>Red</b><br>Formular: per = DMX_value *0.392                     |
| 3           | 0-255     | 0-100%  | <b>Green</b><br>Formular: per = DMX_value *0.392                   |
| 4           | 0-255     | 0-100%  | <b>Blue</b><br>Formular: per = DMX_value *0.392                    |
| 5           | 0-255     | 0-100%  | <b>Warm White</b><br>Formular: per = DMX_value *0.392              |

|   |       |        |  |
|---|-------|--------|--|
| 6 | 0-255 | 0-100% | <b>Cool White</b><br>Formular: per = DMX_value *0.392                  |
| 7 | 0-255 | 0-100% | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW, smooth fade            |
| 8 | 0-255 | 0-360  | <b>HUE</b><br>Formular: HUE = DMX_value *1.4118                        |
| 9 | 0-255 | 0-100% | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |

**MODE 19 RGBWW+HSI 16 Bit - 18 CH**

| DMX Channel | DMX Value | Range  | Function                             |
|-------------|-----------|--------|--------------------------------------|
| 1           | 0-65535   | 0-100% | <b>Dimmer</b>                        |
| 2           |           |        | Closed - Open                        |
| 3           | 0-65535   | 0-100% | <b>Red</b>                           |
| 4           |           |        | Formular: per = DMX_value /655.35    |
| 5           | 0-65535   | 0-100% | <b>Green</b>                         |
| 6           |           |        | Formular: per = DMX_value /655.35    |
| 7           | 0-65535   | 0-100% | <b>Blue</b>                          |
| 8           |           |        | Formular: per = DMX_value /655.35    |
| 9           | 0-65535   | 0-100% | <b>Warm White</b>                    |
| 10          |           |        | Formular: per = DMX_value /655.35    |
| 11          | 0-65535   | 0-100% | <b>Cool White</b>                    |
| 12          |           |        | Formular: per = DMX_value /655.35    |
| 13          | 0-65535   | 0-100% | <b>Crossfade</b>                     |
| 14          |           |        | 0 full CCT, 65535 full RGBWW, smooth |
| 15          | 0-65535   | 0-360  | <b>Hue</b>                           |
| 16          |           |        | Formular: per = DMX_value *0.005493  |
| 17          | 0-65535   | 0-100% | <b>Saturation</b>                    |
| 18          |           |        | Closed - Open                        |

**MODE 20 RGBWW+XY 8 Bit - 9 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |
| 2           | 0-255     | 0-100%  | <b>Red</b><br>Formular: per = DMX_value *0.392                     |
| 3           | 0-255     | 0-100%  | <b>Green</b><br>Formular: per = DMX_value *0.392                   |
| 4           | 0-255     | 0-100%  | <b>Blue</b><br>Formular: per = DMX_value *0.392                    |
| 5           | 0-255     | 0-100%  | <b>Warm White</b><br>Formular: per = DMX_value *0.392              |
| 6           | 0-255     | 0-100%  | <b>Cool White</b><br>Formular: per = DMX_value *0.392              |
| 7           | 0-255     | 0-100%  | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW, smooth fade        |
| 8           | 0-255     | X*255   | <b>X Coordinate</b><br>Formular: X = DMX_value /255                |
| 9           | 0-255     | Y*255   | <b>Y Coordinate</b><br>Formular: Y = DMX_value /255                |

**MODE 21 RGBWW+XY 16 Bit - 18 CH**

| DMX Channel | DMX Value | Range  | Function                          |
|-------------|-----------|--------|-----------------------------------|
| 1           | 0-65535   | 0-100% | <b>Dimmer</b>                     |
| 2           |           |        | Closed - Open                     |
| 3           | 0-65535   | 0-100% | <b>Red</b>                        |
| 4           |           |        | Formular: per = DMX_value /655.35 |

|    |         |         |                                      |
|----|---------|---------|--------------------------------------|
| 5  | 0-65535 | 0-100%  | <b>Green</b>                         |
| 6  |         |         | Formular: per = DMX_value /655.35    |
| 7  | 0-65535 | 0-100%  | <b>Blue</b>                          |
| 8  |         |         | Formular: per = DMX_value /655.35    |
| 9  | 0-65535 | 0-100%  | <b>Warm</b>                          |
| 10 |         |         | Formular: per = DMX_value /655.35    |
| 11 | 0-65535 | 0-100%  | <b>Cool White</b>                    |
| 12 |         |         | Formular: per = DMX_value /655.35    |
| 13 | 0-65535 | 0-100%  | <b>Crossfade</b>                     |
| 14 |         |         | 0 full CCT, 65535 full RGBWW, smooth |
| 15 | 0-65535 | X*65535 | <b>X Coordinate</b>                  |
| 16 |         |         | Formular: X = DMX_value /65535       |
| 17 | 0-65535 | Y*65535 | <b>Y Coordinate</b>                  |
| 18 |         |         | Formular: Y = DMX_value /655.35      |

**MODE 22 HSI+XY 8 Bit - 6 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392     |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |
| 2           | 0-255     | 0-360   | <b>Hue</b><br>Closed - Open<br>Formular: HUE = DMX_value *1.4118       |
| 3           | 0-255     | 0-100%  | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
| 4           | 0-255     | 0-100%  | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW, smooth fade            |
| 5           | 0-255     | X*255   | <b>X Coordinate</b><br>Formular: X = DMX_value /255                    |
| 6           | 0-255     | Y*255   | <b>Y Coordinate</b><br>Formular: Y = DMX_value /255                    |

**MODE 23 HSI+XY 16 Bit - 12 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-65535   | 0-100%  | <b>Dimmer</b><br>Closed - Open                           |
| 2           |           |         |  |
| 3           | 0-65535   | 0-360   | <b>Hue</b><br>Closed - Open                              |
| 4           |           |         |  |
| 5           | 0-65535   | 0-100%  | <b>Saturation</b><br>Closed - Open                       |
| 6           |           |         |  |
| 7           | 0-65535   | 0-100%  | <b>Crossfade</b><br>0 full CCT, 65535 full RGBWW, smooth |
| 8           |           |         |  |
| 9           | 0-65535   | X*65535 | <b>X Coordinate</b><br>Formular: X = DMX_value /65535    |
| 10          |           |         |  |
| 11          | 0-65535   | Y*65535 | <b>Y Coordinate</b><br>Formular: Y = DMX_value /65535    |
| 12          |           |         |  |

**MODE 24 EFFECT - CCT Chase 7 CH**

| DMX Channel | DMX Value | Range       | Function   |
|-------------|-----------|-------------|--|
| 1           | 0-51      | 0-20%       | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392         |
|             | 51-102    | 20-40%      |  |
|             | 102-153   | 40-60%      |  |
|             | 153-204   | 60-80%      |  |
|             | 204-255   | 80-100%     |  |
| 2           | 000-014   |             | <b>CCT Chase</b>   |
| 3           | 0-255     | 2700-10000K | <b>CCT Start</b><br>Formular: Color Temperature = 2700 + DMX_value *28.627 |

|   |         |                                  |   |
|---|---------|----------------------------------|---|
| 4 | 0-255   | 2700-10000K                      | <b>CCT Stop</b><br>Formular: Color Temperature = 2700 + DMX_value *28.627 |
| 5 | 0-20    | 0%                               | <b>Green / Magenta</b>  |
|   | 21-30   | Full Magenta(100%)               |   |
|   | 31-129  | Magenta(99%-1%)                  |   |
|   | 130-140 | 0%                               |   |
|   | 141-240 | Green(1%-99%)                    |   |
|   | 241-255 | Green(100%)                      |   |
| 6 | 10-19   | Loop time increase<br>60 seconds | <b>Loop time (max 600 second)</b>   |
|   | 20-29   | 120 seconds                      |   |
|   | 30-39   | 180 seconds                      |   |
|   | 40-49   | 240 seconds                      |   |
|   | 50-59   | 300 seconds                      |   |
|   | 60-69   | 360 seconds                      |   |
|   | 70-79   | 420 seconds                      |   |
|   | 80-89   | 480 seconds                      |   |
|   | 90-99   | 540 seconds                      |   |
| 7 | 0-50    | 0-50 seconds                     | <b>Second/Loop</b>  |
|   | 50-100  | 50-100 seconds                   |   |
|   | 100-150 | 100-150 seconds                  |   |
|   | 150-200 | 150-200 seconds                  |   |
|   | 200-255 | 200-255 seconds                  |   |

| <b>MODE 24 EFFECT - Color Chase 7 CH</b> |                  |                                  |  |
|--|------------------|----------------------------------|--|
| <b>DMX Channel</b>                       | <b>DMX Value</b> | <b>Range</b>                     | <b>Function</b>  |
| 1  | 0-255            | 0-100%                           | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392     |
| 2  | 015-026          |                                  | <b>Color Chase</b>   |
| 3  | 0-42             | 0°-60°                           | <b>HUE Start</b><br>Formular: HUE = DMX_value *1.4118                  |
|  | 42-85            | 60°-120°                         |  |
|  | 85-127           | 120°-180°                        |  |
|  | 127-170          | 180°-240°                        |  |
|  | 170-212          | 240°-300°                        |  |
|  | 212-255          | 300°-360°                        |  |
| 4  | 0-42             | 0°-60°                           | <b>HUE Stop</b><br>Formular: HUE = DMX_value *1.4118                   |
|  | 42-85            | 60°-120°                         |  |
|  | 85-127           | 120°-180°                        |  |
|  | 127-170          | 180°-240°                        |  |
|  | 170-212          | 240°-300°                        |  |
|  | 212-255          | 300°-360°                        |  |
| 5  | 0-255            | 0%                               | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
| 6  | 10-19            | Loop time increase<br>60 seconds | <b>Loop time (max 600 second)</b>                                      |
|  | 20-29            | 120 seconds                      |  |
|  | 30-39            | 180 seconds                      |  |
|  | 40-49            | 240 seconds                      |  |
|  | 50-59            | 300 seconds                      |  |
|  | 60-69            | 360 seconds                      |  |
|  | 70-79            | 420 seconds                      |  |
|  | 80-89            | 480 seconds                      |  |
|  | 90-99            | 540 seconds                      |  |



|   |   |   |                    |
|---|---|---|--------------------|
| 7 | 0-50<br>50-100<br>100-150<br>150-200<br>200-255 | 0-50 seconds<br>50-100 seconds<br>100-150 seconds<br>150-200 seconds<br>200-255 seconds | <b>Second/Loop</b> |
|---|---|---|--------------------|

| MODE 24 EFFECT - Fireworks 7 CH |           |         |  |
|---------------------------------|-----------|---------|--|
| DMX Channel                     | DMX Value | Range   | Function   |
| 1                               | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392     |
|                                 | 51-102    | 20-40%  |  |
|                                 | 102-153   | 40-60%  |  |
|                                 | 153-204   | 60-80%  |  |
|                                 | 204-255   | 80-100% |  |
| 2                               | 027-039   |         | <b>Fireworks</b>   |
| 3                               | 0-255     | 0-360   | <b>HUE Start</b><br>Formular: HUE = DMX_value *1.4118                  |
| 4                               | 0-255     | 0-360   | <b>HUE Stop</b><br>Formular: HUE = DMX_value *1.4118                   |
| 5                               | 0-255     | 0-100%  | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
| 6                               | 0-255     | 0-60    | <b>Explosion/min</b><br>Formular: speed = dmx_value/4.25               |
| 7                               | 0-255     | 5-95    | <b>Duration</b><br>Formular: duty = 5+DMX_value *0.353                 |

| MODE 24 EFFECT - Fire 4 CH |           |         |  |
|----------------------------|-----------|---------|--|
| DMX Channel                | DMX Value | Range   | Function   |
| 1                          | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|                            | 51-102    | 20-40%  |  |
|                            | 102-153   | 40-60%  |  |
|                            | 153-204   | 60-80%  |  |
|                            | 204-255   | 80-100% |  |
| 2                          | 040-052   |         | <b>Fire</b>  |
| 3                          | 0-255     | 0-100   | <b>Wind Speed</b><br>Formular: per = DMX_value *0.392              |
| 4                          | 0-49      | 0-49    | <b>Fire Type:</b> Candle   |
|                            | 50-99     | 50-99   | <b>Fire Type:</b> Campfire   |
|                            | 100-149   | 100-149 | <b>Fire Type:</b> bonfire  |

| MODE 24 EFFECT - Explosion 5 CH |           |         |  |
|---------------------------------|-----------|---------|--|
| DMX Channel                     | DMX Value | Range   | Function   |
| 1                               | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|                                 | 51-102    | 20-40%  |  |
|                                 | 102-153   | 40-60%  |  |
|                                 | 153-204   | 60-80%  |  |
|                                 | 204-255   | 80-100% |  |
| 2                               | 053-065   |         | <b>Explosion</b>   |
| 3                               | 0-255     | 0-60    | <b>Explosion/min</b><br>Formular: speed = DMX_value /4.25          |
| 4                               | 0-255     | 5-95    | <b>Duration</b><br>Formular: duty = 5 + DMX_value *0.353           |
| 5                               | 0-49      | 0-49    | cc   |
|                                 | 50-99     | 50-99   | <b>Fire Type:</b> Cool   |
|                                 | 100-149   | 100-149 | <b>Fire Type:</b> Colors   |

| MODE 24 EFFECT - Lightning 5 CH |           |       |          |
|---------------------------------|-----------|-------|----------|
| DMX Channel                     | DMX Value | Range | Function |

|   |   |  |  |
|---|---|--|--|
| 1 | 0-51<br>51-102<br>102-153<br>153-204<br>204-255 | 0-20%<br>20-40%<br>40-60%<br>60-80%<br>80-100% | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392   |
| 2 | 066-077   |  | <b>Lightning</b>   |
| 3 | 0-255   | 2700-10000K                                    | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+DMX_value *28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
| 4 | 0-20  | 0%   | <b>Green / Magenta</b>   |
|   | 21-30   | Full Magenta(100%)                             |  |
|   | 31-129  | Magenta(99%-1%)                                |  |
|   | 130-140   | 0%   |  |
|   | 141-240   | Green(1%-99%)                                  |  |
|   | 241-255   | Green(100%)                                    |  |
| 5 | 0-255   | 1-60   | <b>Intervals (Second)</b><br>Formular: time = DMX_value /4.25  |

| MODE 24     |   | EFFECT - Paparazzi                             |   | 6 CH |  |
|-------------|---|--|---|------|--|
| DMX Channel | DMX Value                                       | Range  | Function  |      |  |
| 1           | 0-51<br>51-102<br>102-153<br>153-204<br>204-255 | 0-20%<br>20-40%<br>40-60%<br>60-80%<br>80-100% | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392  |      |  |
| 2           | 078-090   |  | <b>Paparazzi</b>  |      |  |
| 3           | 0-255   | 2700-10000K                                    | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+<br>DMX_value*28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |      |  |
| 4           | 0-20  | 0%   | <b>Green / Magenta</b>  |      |  |
|             | 21-30   | Full Magenta(100%)                             |   |      |  |
|             | 31-129  | Magenta(99%-1%)                                |   |      |  |
|             | 130-140   | 0%   |   |      |  |
|             | 141-240   | Green(1%-99%)                                  |   |      |  |
|             | 241-255   | Green(100%)                                    |   |      |  |
| 5           | 0-255   | 0-25Hz   | <b>Frequency</b><br>Formular: frequency = DMX_value /10.2   |      |  |
| 6           | 0-49  | 0-49   | <b>Bulb Type: Slow</b>  |      |  |
|             | 50-99   | 50-99  | <b>Bulb Type: Medium</b>  |      |  |
|             | 100-149   | 100-149  | <b>Bulb Type: Fast</b>  |      |  |
|             | 150-199   | 150-199  | <b>Bulb Type: Modern</b>  |      |  |

| MODE 24     |   | EFFECT - Pulse                                 |  | 5 CH |  |
|-------------|---|--|--|------|--|
| DMX Channel | DMX Value                                       | Range  | Function   |      |  |
| 1           | 0-51<br>51-102<br>102-153<br>153-204<br>204-255 | 0-20%<br>20-40%<br>40-60%<br>60-80%<br>80-100% | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |      |  |

|   |         |        |   |
|---|---------|--------|---|
| 2 | 091-103 |        | <b>Pulse</b>  |
| 3 | 0-255   | 0-360  | <b>HUE</b><br>Formular: HUE = DMX_value * 1.4118                        |
| 4 | 0-255   | 0-100% | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value * 0.392 |
| 5 | 0-255   | 1-200  | <b>Pulses/min</b><br>Formular: frequency = 1+DMX_value / 1.281          |

| MODE 24 EFFECT - Police 6 CH |           |         |   |
|------------------------------|-----------|---------|---|
| DMX Channel                  | DMX Value | Range   | Function  |
| 1                            | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value * 0.392 |
|                              | 51-102    | 20-40%  |   |
|                              | 102-153   | 40-60%  |   |
|                              | 153-204   | 60-80%  |   |
|                              | 204-255   | 80-100% |   |
| 2                            | 104-116   |         | <b>Police</b>   |
| 3                            | 0-9       | 0-9     | <b>Colors:</b> Red, Blue & White                                    |
|                              | 10-19     | 10-19   | <b>Colors:</b> Red & Blue   |
|                              | 20-29     | 20-29   | <b>Colors:</b> Red & White  |
|                              | 30-39     | 30-39   | <b>Colors:</b> Blue & White   |
|                              | 40-49     | 40-49   | <b>Colors:</b> Blue   |
|                              | 50-59     | 50-59   | <b>Colors:</b> Red  |
|                              | 60-69     | 60-69   | <b>Colors:</b> Amber  |

|   |         |         |  |
|---|---------|---------|--|
| 4 | 0-49    | 0-49    | <b>Flash/cycle:</b> 1                                    |
|   | 50-99   | 50-99   | <b>Flash/cycle:</b> 2                                    |
|   | 100-149 | 100-149 | <b>Flash/cycle:</b> 3                                    |
|   | 150-199 | 150-199 | <b>Flash/cycle:</b> 4                                    |
| 5 | 0-255   | 0-100   | <b>Speed</b><br>Formular: per = DMX_value * 0.392        |
| 6 | 0-255   | 5-95    | <b>Duration</b><br>Formular: duty = 5+ DMX_value * 0.353 |

| MODE 24 EFFECT - Strobe Color 6 CH |           |         |   |
|------------------------------------|-----------|---------|---|
| DMX Channel                        | DMX Value | Range   | Function  |
| 1                                  | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value * 0.392     |
|                                    | 51-102    | 20-40%  |   |
|                                    | 102-153   | 40-60%  |   |
|                                    | 153-204   | 60-80%  |   |
|                                    | 204-255   | 80-100% |   |
| 2                                  | 117-128   |         | <b>Strobe Color</b>   |
| 3                                  | 0-255     | 0-360   | <b>HUE</b><br>Formular: HUE = DMX_value * 1.4118                        |
| 4                                  | 0-255     | 0-100   | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value * 0.392 |
| 5                                  | 0-255     | 0-25Hz  | <b>Frequency</b><br>Formular: Frequency = DMX_value / 10.2              |
| 6                                  | 0-255     | 5-95    | <b>Duration</b><br>Formular: duty = 5+ DMX_value * 0.353                |

| MODE 24 EFFECT - Strobe CCT 6 CH |           |         |   |
|----------------------------------|-----------|---------|---|
| DMX Channel                      | DMX Value | Range   | Function  |
| 1                                | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value * 0.392 |
|                                  | 51-102    | 20-40%  |   |
|                                  | 102-153   | 40-60%  |   |
|                                  | 153-204   | 60-80%  |   |
|                                  | 204-255   | 80-100% |   |
| 2                                | 129-141   |         | <b>Strobe CCT</b>   |

|   |         |                    |  |
|---|---------|--------------------|--|
| 3 | 0-255   | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>$\text{Color Temperature} = 2700 + \text{DMX\_value} * 28.627$<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
| 4 | 0-20    | 0%                 | <b>Green / Magenta</b>   |
|   | 21-30   | Full Magenta(100%) |  |
|   | 31-129  | Magenta(99%-1%)    |  |
|   | 130-140 | 0%                 |  |
|   | 141-240 | Green(1%-99%)      |  |
|   | 241-255 | Green(100%)        |  |
| 5 | 0-255   | 0-25Hz             | <b>Frequency</b><br>Formular: $\text{frequency} = \text{DMX\_value} / 10.2$  |
| 6 | 0-255   | 5-95               | <b>Duration</b><br>Formular: $\text{duty} = 5 + \text{DMX\_value} * 0.353$   |

| MODE 25 Macro - 2 CH |           |         |  |
|----------------------|-----------|---------|--|
| DMX Channel          | DMX Value | Range   | Function   |
| 1                    | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: $\text{per} = \text{DMX\_value} * 0.392$ |
|                      | 51-102    | 20-40%  |  |
|                      | 102-153   | 40-60%  |  |
|                      | 153-204   | 60-80%  |  |
|                      | 204-255   | 80-100% |  |
| 2                    | 0-46      | 0-46    | Pls check: <a href="#">Appendix I Macro</a>  |

| RANK MODE (RANK 1-3)             |           |                    |  |
|----------------------------------|-----------|--------------------|--|
| RANK 1 - MODE 1 CCT 8 Bit - 3 CH |           |                    |  |
| DMX Channel                      | DMX Value | Range              | Function   |
| 1                                | 0-51      | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: $\text{per} = \text{DMX\_value} * 0.392$   |
|                                  | 51-102    | 20-40%             |  |
|                                  | 102-153   | 40-60%             |  |
|                                  | 153-204   | 60-80%             |  |
|                                  | 204-255   | 80-100%            |  |
| 2                                | 0-255     | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>$\text{Color Temperature} = 2700 + \text{DMX\_value} * 28.627$<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
| 3                                | 0-20      | 0                  | <b>Green / Magenta</b>   |
|                                  | 21-30     | Full Magenta(100%) |  |
|                                  | 30-130    | Magenta(99%-1%)    |  |
|                                  | 130-140   | 0%                 |  |
|                                  | 141-240   | Green(1%-99%)      |  |
|                                  | 241-255   | Green(100%)        |  |

**RANK 2 - MODE 1 CCT 8 Bit - 3 CH**  
 DMX Channel 4 - 6, the value and function is same as RANK 1

**RANK 3 - MODE 1 CCT 8 Bit - 3 CH**  
 DMX Channel 7 - 9, the value and function is same as RANK 1

| RANK 1 - MODE 2 CCT 16 Bit - 6 CH |             |                    |   |
|-----------------------------------|-------------|--------------------|---|
| DMX Channel                       | DMX Value   | Range              | Function                                  |
| 1                                 | 0-65535     | 0-100%             | <b>Dimmer</b><br>Closed - Open            |
| 2                                 |             |                    |   |
| 3                                 | 0-65535     | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open |
| 4                                 |             |                    |   |
| 5                                 | 0-5000      | 0%                 | <b>Green / Magenta</b>                    |
|                                   | 5001-10000  | Full Magenta(100%) |   |
|                                   | 10001-29999 | Magenta(99%-1%)    |   |
| 6                                 | 30000-40000 | 0%                 |   |
|                                   | 40001-59999 | Green(1%-99%)      |   |
|                                   | 60000-65535 | Green(100%)        |   |

**RANK 2 - MODE 2 CCT 16 Bit - 6 CH**  
DMX Channel 7 - 12, the value and function is same as RANK 1

**RANK 3 - MODE 2 CCT 16 Bit - 6 CH**  
DMX Channel 13 - 18, the value and function is same as RANK 1

| RANK 1 - MODE 3 HSI 8 Bit - 3 CH |           |         |   |
|----------------------------------|-----------|---------|---|
| DMX Channel                      | DMX Value | Range   | Function  |
| 1                                | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value * 0.392     |
|                                  | 51-102    | 20-40%  |   |
|                                  | 102-153   | 40-60%  |   |
|                                  | 153-204   | 60-80%  |   |
|                                  | 204-255   | 80-100% |   |
| 2                                | 0-255     | 0-360   | <b>Hue</b><br>Closed - Open<br>Formular: HUE = DMX_value * 1.4118       |
| 3                                | 0-255     | 0-100%  | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value * 0.392 |

**RANK 2 - MODE 3 HSI 8 Bit - 3 CH**  
DMX Channel 4 - 6, the value and function is same as RANK 1

**RANK 3 - MODE 3 HSI 8 Bit - 3 CH**  
DMX Channel 7 - 9, the value and function is same as RANK 1

| RANK 1 - MODE 4 HSI 16 Bit - 6 CH |           |        |                                    |
|-----------------------------------|-----------|--------|------------------------------------|
| DMX Channel                       | DMX Value | Range  | Function                           |
| 1                                 | 0-65535   | 0-100% | <b>Dimmer</b><br>Closed - Open     |
| 2                                 |           |        |                                    |
| 3                                 | 0-65535   | 0-360  | <b>Hue</b><br>Closed - Open        |
| 4                                 |           |        |                                    |
| 5                                 | 0-65535   | 0-100% | <b>Saturation</b><br>Closed - Open |
| 6                                 |           |        |                                    |

**RANK 2 - MODE 4 HSI 16 Bit - 6 CH**  
DMX Channel 7 - 12, the value and function is same as RANK 1

**RANK 3 - MODE 4 HSI 16 Bit - 6 CH**  
DMX Channel 13 - 18, the value and function is same as RANK 1

| RANK 1 - MODE 5 XY 8 Bit - 3 CH |           |         |   |
|---------------------------------|-----------|---------|---|
| DMX Channel                     | DMX Value | Range   | Function  |
| 1                               | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value * 0.392 |
|                                 | 51-102    | 20-40%  |   |
|                                 | 102-153   | 40-60%  |   |
|                                 | 153-204   | 60-80%  |   |
|                                 | 204-255   | 80-100% |   |
| 2                               | 0-255     | X*255   | <b>X Coordinate</b><br>Formular: X = DMX_value / 255                |

|   |       |       |   |
|---|-------|-------|---|
| 3 | 0-255 | Y*255 | <b>Y Coordinate</b><br>Formular: $Y = DMX\_value / 255$ |
|---|-------|-------|---|

**RANK 2 - MODE 5 XY 8 Bit - 3 CH**  
DMX Channel 4 - 6, the value and function is same as RANK 1

**RANK 3 - MODE 5 XY 8 Bit - 3 CH**  
DMX Channel 7 - 9, the value and function is same as RANK 1

**RANK 1 - MODE 6 XY 16 Bit - 6 CH**

| DMX Channel | DMX Value | Range   | Function  |
|-------------|-----------|---------|---|
| 1           | 0-65535   | 0-100%  | <b>Dimmer</b><br>Closed – Open                            |
| 2           |           |         |   |
| 3           | 0-65535   | X*65535 | <b>X Coordinate</b><br>Formular: $X = DMX\_value / 65535$ |
| 4           |           |         |   |
| 5           | 0-65535   | Y*65535 | <b>Y Coordinate</b><br>Formular: $Y = DMX\_value / 65535$ |
| 6           |           |         |   |

**RANK 2 - MODE 6 XY 16 Bit - 6 CH**  
DMX Channel 7 - 12, the value and function is same as RANK 1

**RANK 3 - MODE 6 XY 16 Bit - 6 CH**  
DMX Channel 13 - 18, the value and function is same as RANK 1

**RANK 1 - MODE 7 RGBWW 8 Bit - 6 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: $per = DMX\_value * 0.392$ |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |
| 2           | 0-255     | 0-100%  | <b>Red</b><br>Formular: $per = DMX\_value * 0.392$                     |
| 3           | 0-255     | 0-100%  | <b>Green</b><br>Formular: $per = DMX\_value * 0.392$                   |
| 4           | 0-255     | 0-100%  | <b>Blue</b><br>Formular: $per = DMX\_value * 0.392$                    |
| 5           | 0-255     | 0-100%  | <b>Warm White</b><br>Formular: $per = DMX\_value * 0.392$              |
| 6           | 0-255     | 0-100%  | <b>Cool White</b><br>Formular: $per = DMX\_value * 0.392$              |

**RANK 2 - MODE 7 RGBWW 8 Bit - 6 CH**  
DMX Channel 7 - 12, the value and function is same as RANK 1

**RANK 3 - MODE 7 RGBWW 8 Bit - 6 CH**  
DMX Channel 13 - 18, the value and function is same as RANK 1

**RANK 1 - MODE 8 RGBWW 16 Bit - 12 CH**

| DMX Channel | DMX Value | Range  | Function   |
|-------------|-----------|--------|--|
| 1           | 0-65535   | 0-100% | <b>Dimmer</b><br>Closed - Open                             |
| 2           |           |        |  |
| 3           | 0-65535   | 0-100% | <b>Red</b><br>Formular: $per = DMX\_value / 655.35$        |
| 4           |           |        |  |
| 5           | 0-65535   | 0-100% | <b>Green</b><br>Formular: $per = DMX\_value / 655.35$      |
| 6           |           |        |  |
| 7           | 0-65535   | 0-100% | <b>Blue</b><br>Formular: $per = DMX\_value / 655.35$       |
| 8           |           |        |  |
| 9           | 0-65535   | 0-100% | <b>Warm White</b><br>Formular: $per = DMX\_value / 655.35$ |
| 10          |           |        |  |
| 11          | 0-65535   | 0-100% | <b>Cool White</b><br>Formular: $per = DMX\_value / 655.35$ |
| 12          |           |        |  |

**RANK 2 - MODE 8 RGBWW 16 Bit - 12 CH**

DMX Channel 13 - 24, the value and function is same as RANK 1

**RANK 3 - MODE 8 RGBWW 16 Bit - 12 CH**

DMX Channel 25 - 36 the value and function is same as RANK 1

**RANK 1 - MODE 9 GEL 8 Bit - 4 CH**

| DMX Channel | DMX Value | Range    | Function  |
|-------------|-----------|----------|---|
| 1           | 0-51      | 0-20%    | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value * 0.392 |
|             | 51-102    | 20-40%   |   |
|             | 102-153   | 40-60%   |   |
|             | 153-204   | 60-80%   |   |
|             | 204-255   | 80-100%  |   |
| 2           | 0-127     | 3200K    | <b>3200K</b>  |
|             | 128-255   | 5600K    | <b>5600K</b>  |
| 3           | 0-127     | Group I  | <b>Select Group I</b>   |
|             | 128-255   | Group II | <b>Select Group II</b>  |
| 4           | 0-121     | 1-122    | <b>GEL Filter Number in Group I</b>                                 |
|             | 0-190     | 123-313  | <b>GEL Filter Number in Group II</b>                                |

**RANK 2 - MODE 9 GEL 8 Bit - 4 CH**

DMX Channel 5 - 8, the value and function is same as RANK 1

**RANK 3 - MODE 9 GEL 8 Bit - 4 CH**

DMX Channel 9-12, the value and function is same as RANK 1

**RANK 1 - MODE 10 CCT+RGBWW 8 Bit - 9 CH**

| DMX Channel | DMX Value | Range       | Function  |
|-------------|-----------|-------------|---|
| 1           | 0-51      | 0-20%       | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value * 0.392   |
|             | 51-102    | 20-40%      |   |
|             | 102-153   | 40-60%      |   |
|             | 153-204   | 60-80%      |   |
|             | 204-255   | 80-100%     |   |
| 2           | 0-255     | 2700-10000K | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+DMX_value * 28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |

|   |         |                    |   |
|---|---------|--------------------|---|
| 3 | 0-20    | 0%                 | <b>Green / Magenta</b>                                      |
|   | 21-30   | Full Magenta(100%) |   |
|   | 31-129  | Magenta(99%-1%)    |   |
|   | 130-140 | 0%                 |   |
|   | 141-240 | Green(1%-99%)      |   |
|   | 241-255 | Green(100%)        |   |
| 4 | 0-255   | 0-100%             | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW, smooth fade |
| 5 | 0-255   | 0-100%             | <b>Red</b><br>Formular: per = DMX_value * 0.392             |
| 6 | 0-255   | 0-100%             | <b>Green</b><br>Formular: per = DMX_value * 0.392           |
| 7 | 0-255   | 0-100%             | <b>Blue</b><br>Formular: per = DMX_value * 0.392            |
| 8 | 0-255   | 0-100%             | <b>Warm White</b><br>Formular: per = DMX_value * 0.392      |
| 9 | 0-255   | 0-100%             | <b>Cool White</b><br>Formular: per = DMX_value * 0.392      |

**RANK 2 - MODE 10 CCT+RGBWW 8 Bit - 9 CH**

DMX Channel 10 - 18, the value and function is same as RANK 1

**RANK 3 - MODE 10 CCT+RGBWW 8 Bit - 9 CH**

DMX Channel 19 - 27, the value and function is same as RANK 1

**RANK 1 - MODE 11 :CT+RGBWW 16 Bit - 18 CH**

| DMX Channel | DMX Value   | Range              | Function   |
|-------------|-------------|--------------------|--|
| 1           | 0-65535     | 0-100%             | <b>Dimmer</b><br>Closed - Open                           |
| 2           |             |                    |  |
| 3           |             |                    |  |
| 4           | 0-65535     | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open                |
| 5           |             |                    |  |
| 6           |             |                    |  |
| 5           | 0-5000      | 0%                 | <b>Green / Magenta</b>                                   |
|             | 5001-10000  | Full Magenta(100%) |  |
|             | 10001-29999 | Magenta(99%-1%)    |  |
| 6           | 30000-40000 | 0%                 |  |
|             | 40001-59999 | Green(1%-99%)      |  |
|             | 60000-65535 | Green(100%)        |  |
| 7           | 0-65535     | 0-100%             | <b>Crossfade</b><br>0 full CCT, 65535 full RGBWW, smooth |
| 8           |             |                    |  |
| 9           |             |                    |  |
| 10          | 0-65535     | 0-100%             | <b>Red</b><br>Formular: per = DMX_value /655.35          |
| 11          |             |                    |  |
| 12          |             |                    |  |
| 13          | 0-65535     | 0-100%             | <b>Green</b><br>Formular: per = DMX_value /655.35        |
| 14          |             |                    |  |
| 15          |             |                    |  |
| 16          | 0-65535     | 0-100%             | <b>Blue</b><br>Formular: per = DMX_value /655.35         |
| 17          |             |                    |  |
| 18          |             |                    |  |
| 17          | 0-65535     | 0-100%             | <b>Warm White</b><br>Formular: per = DMX_value /655.35   |
| 18          |             |                    |  |
| 17          | 0-65535     | 0-100%             | <b>Cool White</b><br>Formular: per = DMX_value /655.35   |
| 18          |             |                    |  |

**RANK 2 - MODE 11 :CT+RGBWW 16 Bit - 18 CH**

DMX Channel 19 - 36, the value and function is same as RANK 1

**RANK 3 - MODE 11 :CT+RGBWW 16 Bit - 18 CH**

DMX Channel 37 - 54, the value and function is same as RANK 1

**RANK 1 - MODE 12 CCT+HSI 8 Bit - 6 CH**

| DMX Channel | DMX Value | Range              | Function   |
|-------------|-----------|--------------------|--|
| 1           | 0-51      | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392   |
|             | 51-102    | 20-40%             |  |
|             | 102-153   | 40-60%             |  |
|             | 153-204   | 60-80%             |  |
|             | 204-255   | 80-100%            |  |
| 2           | 0-255     | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+DMX_value *28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
| 3           | 0-20      | 0%                 | <b>Green / Magenta</b>   |
|             | 21-30     | Full Magenta(100%) |  |
|             | 31-129    | Magenta(99%-1%)    |  |
|             | 130-140   | 0%                 |  |
|             | 141-240   | Green(1%-99%)      |  |
|             | 241-255   | Green(100%)        |  |



|   |       |        |  |
|---|-------|--------|--|
| 4 | 0-255 | 0-100% | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW, smooth fade            |
| 5 | 0-255 | 0-360  | <b>HUE</b><br>Formular: HUE = DMX_value *1.4118                        |
| 6 | 0-255 | 0-100% | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |

**RANK 2 - MODE 12 CCT+HSI 8 Bit - 6 CH**

DMX Channel 7 - 12, the value and function is same as RANK 1

**RANK 3 - MODE 12 CCT+HSI 8 Bit - 6 CH**

DMX Channel 13 - 18, the value and function is same as RANK 1

**RANK 1 - MODE 13 CCT+HSI 16 Bit - 12 CH**

| DMX Channel | DMX Value | Range       | Function                                  |
|-------------|-----------|-------------|---|
| 1           | 0-65535   | 0-100%      | <b>Dimmer</b><br>Closed – Open            |
| 2           |           |             |   |
| 3           | 0-65535   | 2700-10000K | <b>Color Temperature</b><br>Closed - Open |
| 4           |           |             |   |

|    |             |                    |  |
|----|-------------|--------------------|--|
| 5  | 0-5000      | 0%                 | <b>Green / Magenta</b>                                   |
|    | 5001-10000  | Full Magenta(100%) |  |
|    | 10001-29999 | Magenta(99%-1%)    |  |
| 6  | 30000-40000 | 0%                 |  |
|    | 40001-59999 | Green(1%-99%)      |  |
|    | 60000-65535 | Green(100%)        |  |
| 7  | 0-65535     | 0-100%             | <b>Crossfade</b><br>0 full CCT, 65535 full RGBWW, smooth |
| 8  |             |                    |  |
| 9  | 0-65535     | 0-360              | <b>HUE</b><br>Formular: HUE = DMX_value *0.005493        |
| 10 |             |                    |  |
| 11 | 0-65535     | 0-100%             | <b>Saturation</b><br>Closed - Open                       |
| 12 |             |                    |  |

**RANK 2 - MODE 13 CCT+HSI 16 Bit - 12 CH**

DMX Channel 13 - 24, the value and function is same as RANK 1

**RANK 3 - MODE 13 CCT+HSI 16 Bit - 12 CH**

DMX Channel 25 - 36 the value and function is same as RANK 1

**RANK 1 - MODE 14 CCT+XY 8 Bit - 6 CH**

| DMX Channel | DMX Value | Range              | Function   |
|-------------|-----------|--------------------|--|
| 1           | 0-51      | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392   |
|             | 51-102    | 20-40%             |  |
|             | 102-153   | 40-60%             |  |
|             | 153-204   | 60-80%             |  |
|             | 204-255   | 80-100%            |  |
| 2           | 0-255     | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+DMX_value *28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
| 3           | 0-20      | 0%                 | <b>Green / Magenta</b>   |
|             | 21-30     | Full Magenta(100%) |  |
|             | 31-129    | Magenta(99%-1%)    |  |
|             | 130-140   | 0%                 |  |
|             | 141-240   | Green(1%-99%)      |  |
|             | 241-255   | Green(100%)        |  |

|   |       |        |   |
|---|-------|--------|---|
| 4 | 0-255 | 0-100% | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW, smooth fade |
| 5 | 0-255 | X*255  | <b>X Coordinate</b><br>Formular: X = DMX_value /255         |
| 6 | 0-255 | Y*255  | <b>Y Coordinate</b><br>Formular: Y = DMX_value /255         |

**RANK 2 - MODE 14 CCT+XY 8 Bit - 6 CH**

DMX Channel 7 - 12, the value and function is same as RANK 1

**RANK 3 - MODE 14 CCT+XY 8 Bit - 6 CH**

DMX Channel 13 - 18, the value and function is same as RANK 1

**RANK 1 - MODE 15 CCT+XY 16 Bit - 12 CH**

| DMX Channel | DMX Value   | Range       | Function   |
|-------------|-------------|-------------|--|
| 1           | 0-65535     | 0-100%      | <b>Dimmer</b><br>Closed - Open                           |
| 2           |             |             |  |
| 3           |             |             |  |
| 4           | 0-65535     | 2700-10000K | <b>Color Temperature</b><br>Closed - Open                |
| 5           |             |             |  |
| 6           |             |             |  |
| 7           | 0-5000      | 0-100%      | <b>Green / Magenta</b>                                   |
| 8           | 5001-10000  | 0-100%      |  |
| 9           | 10001-29999 | 0-100%      |  |
| 10          | 30000-40000 | 0%          |  |
| 11          | 40001-59999 | 0-100%      |  |
| 12          | 60000-65535 | 0-100%      |  |
| 13          | 0-65535     | 0-100%      | <b>Crossfade</b><br>0 full CCT, 65535 full RGBWW, smooth |
| 14          | 0-65535     | X*65535     | <b>X Coordinate</b><br>Formular: X = DMX_value /65535    |
| 15          |             |             |  |
| 16          |             |             |  |
| 17          | 0-65535     | Y*65535     | <b>Y Coordinate</b><br>Formular: Y = DMX_value /65535    |
| 18          |             |             |  |

**RANK 2 - MODE 15 CCT+XY 16 Bit - 12 CH**

DMX Channel 13 - 24, the value and function is same as RANK 1

**RANK 3 - MODE 15 CCT+XY 16 Bit - 12 CH**

DMX Channel 25 - 36 the value and function is same as RANK 1

**RANK 1 - MODE 16 CCT+GEL 8 Bit - 7 CH**

| DMX Channel | DMX Value | Range              | Function   |
|-------------|-----------|--------------------|--|
| 1           | 0-51      | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392   |
|             | 51-102    | 20-40%             |  |
|             | 102-153   | 40-60%             |  |
|             | 153-204   | 60-80%             |  |
|             | 204-255   | 80-100%            |  |
| 2           | 0-255     | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+DMX_value *28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
| 3           | 0-20      | 0%                 | <b>Green / Magenta</b>   |
|             | 21-30     | Full Magenta(100%) |  |
|             | 31-129    | Magenta(99%-1%)    |  |
|             | 130-140   | 0%                 |  |
|             | 141-240   | Green(1%-99%)      |  |
|             | 241-255   | Green(100%)        |  |

|   |         |          |   |
|---|---------|----------|---|
| 4 | 0-255   | 0-100%   | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW, smooth fade |
| 5 | 0-127   | 3200K    | <b>3200K</b>  |
|   | 128-255 | 5600K    | <b>5600K</b>  |
| 6 | 0-127   | Group I  | <b>Select Group I</b>                                       |
|   | 128-255 | Group II | <b>Select Group II</b>                                      |
| 7 | 0-121   | 1-122    | <b>GEL Filter Number in Group I</b>                         |
|   | 0-190   | 123-313  | <b>GEL Filter Number in Group II</b>                        |

**RANK 2 - MODE 16 CCT+GEL 8 Bit - 7 CH**

DMX Channel 8 - 14, the value and function is same as RANK 1

**RANK 3 - MODE 16 CCT+GEL 8 Bit - 7 CH**

DMX Channel 15 - 21, the value and function is same as RANK 1

**RANK 1 - MODE 17 CCT+GEL 16 Bit - 11 CH**

| DMX Channel | DMX Value   | Range              | Function   |
|-------------|-------------|--------------------|--|
| 1           | 0-65535     | 0-100%             | <b>Dimmer</b><br>Closed - Open                           |
| 2           |             |                    |  |
| 3           | 0-65535     | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open                |
| 4           |             |                    |  |
| 5           | 0-5000      | 0%                 | <b>Green / Magenta</b>                                   |
|             | 5001-10000  | Full Magenta(100%) |  |
|             | 10001-29999 | Magenta(99%-1%)    |  |
| 6           | 30000-40000 | 0%                 |  |
|             | 40001-59999 | Green(1%-99%)      |  |
|             | 60000-65535 | Green(100%)        |  |
| 7           | 0-65535     | 0-100%             | <b>Crossfade</b><br>0 full CCT, 65535 full RGBWW, smooth |
| 8           |             |                    |  |
| 9           | 0-127       | 3200K              | <b>3200K</b>   |
|             | 128-255     | 5600K              | <b>5600K</b>   |
| 10          | 0-127       | Group I            | <b>Select Group I</b>                                    |
|             | 128-255     | Group II           | <b>Select Group II</b>                                   |
| 11          | 0-121       | 1-122              | <b>GEL Filter Number in Group I</b>                      |
|             | 0-190       | 123-313            | <b>GEL Filter Number in Group II</b>                     |

**RANK 2 - MODE 17 CCT+GEL 16 Bit - 11 CH**

DMX Channel 12 - 22, the value and function is same as RANK 1

**RANK 3 - MODE 17 CCT+GEL 16 Bit - 11 CH**

DMX Channel 23 - 33, the value and function is same as RANK 1

**RANK 1 - MODE 18 RGBWW+HSI 8 Bit - 9 CH**

| DMX Channel | DMX Value | Range   | Function  |
|-------------|-----------|---------|---|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value * 0.392 |
|             | 51-102    | 20-40%  |   |
|             | 102-153   | 40-60%  |   |
|             | 153-204   | 60-80%  |   |
|             | 204-255   | 80-100% |   |
| 2           | 0-255     | 0-100%  | <b>Red</b><br>Formular: per = DMX_value * 0.392                     |
| 3           | 0-255     | 0-100%  | <b>Green</b><br>Formular: per = DMX_value * 0.392                   |
| 4           | 0-255     | 0-100%  | <b>Blue</b><br>Formular: per = DMX_value * 0.392                    |
| 5           | 0-255     | 0-100%  | <b>Warm White</b><br>Formular: per = DMX_value * 0.392              |
| 6           | 0-255     | 0-100%  | <b>Cool White</b><br>Formular: per = DMX_value * 0.392              |
| 7           | 0-255     | 0-100%  | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW, smooth fade         |

|   |       |        |  |
|---|-------|--------|--|
| 8 | 0-255 | 0-360  | <b>HUE</b><br>Formular: HUE = DMX_value *1.4118                        |
| 9 | 0-255 | 0-100% | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |

**RANK 2 - MODE 18 RGBWW+HSI 8 Bit - 9 CH**

DMX Channel 10 - 18, the value and function is same as RANK 1

**RANK 3 - MODE 18 RGBWW+HSI 8 Bit - 9 CH**

DMX Channel 19 - 27, the value and function is same as RANK 1

**RANK 1 - MODE 19 RGBWW+HSI 16 Bit - 18 CH**

| DMX Channel | DMX Value | Range  | Function                             |
|-------------|-----------|--------|--------------------------------------|
| 1           | 0-65535   | 0-100% | <b>Dimmer</b>                        |
| 2           |           |        | Closed - Open                        |
| 3           | 0-65535   | 0-100% | <b>Red</b>                           |
| 4           |           |        | Formular: per = DMX_value /655.35    |
| 5           | 0-65535   | 0-100% | <b>Green</b>                         |
| 6           |           |        | Formular: per = DMX_value /655.35    |
| 7           | 0-65535   | 0-100% | <b>Blue</b>                          |
| 8           |           |        | Formular: per = DMX_value /655.35    |
| 9           | 0-65535   | 0-100% | <b>Warm White</b>                    |
| 10          |           |        | Formular: per = DMX_value /655.35    |
| 11          | 0-65535   | 0-100% | <b>Cool White</b>                    |
| 12          |           |        | Formular: per = DMX_value /655.35    |
| 13          | 0-65535   | 0-100% | <b>Crossfade</b>                     |
| 14          |           |        | 0 full CCT, 65535 full RGBWW, smooth |
| 15          | 0-65535   | 0-360  | <b>Hue</b>                           |
| 16          |           |        | Formular: per = DMX_value *0.005493  |
| 17          | 0-65535   | 0-100% | <b>Saturation</b>                    |
| 18          |           |        | Closed - Open                        |

**RANK 2 - MODE 19 RGBWW+HSI 16 Bit - 18 CH**

DMX Channel 19 - 36, the value and function is same as RANK 1

**RANK 3 - MODE 19 RGBWW+HSI 16 Bit - 18 CH**

DMX Channel 37 - 54, the value and function is same as RANK 1

**RANK 1 - MODE 20 RGBWW+XY 8 Bit - 9 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |
| 2           | 0-255     | 0-100%  | <b>Red</b><br>Formular: per = DMX_value *0.392                     |
| 3           | 0-255     | 0-100%  | <b>Green</b><br>Formular: per = DMX_value *0.392                   |
| 4           | 0-255     | 0-100%  | <b>Blue</b><br>Formular: per = DMX_value *0.392                    |
| 5           | 0-255     | 0-100%  | <b>Warm White</b><br>Formular: per = DMX_value *0.392              |
| 6           | 0-255     | 0-100%  | <b>Cool White</b><br>Formular: per = DMX_value *0.392              |
| 7           | 0-255     | 0-100%  | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW, smooth fade        |
| 8           | 0-255     | X*255   | <b>X Coordinate</b><br>Formular: X = DMX_value /255                |
| 9           | 0-255     | Y*255   | <b>Y Coordinate</b><br>Formular: Y = DMX_value /255                |

**RANK 2 - MODE 20 RGBWW+XY 8 Bit - 9 CH**

DMX Channel 10 - 18, the value and function is same as RANK 1

**RANK 3 - MODE 20 RGBWW+XY 8 Bit - 9 CH**

DMX Channel 19 - 27, the value and function is same as RANK 1

**RANK 1 - MODE 21 RGBWW+XY 16 Bit - 18 CH**

| DMX Channel | DMX Value | Range   | Function                             |
|-------------|-----------|---------|--------------------------------------|
| 1           | 0-65535   | 0-100%  | <b>Dimmer</b>                        |
| 2           |           |         | Closed - Open                        |
| 3           | 0-65535   | 0-100%  | <b>Red</b>                           |
| 4           |           |         | Formular: per = DMX_value /655.35    |
| 5           | 0-65535   | 0-100%  | <b>Green</b>                         |
| 6           |           |         | Formular: per = DMX_value /655.35    |
| 7           | 0-65535   | 0-100%  | <b>Blue</b>                          |
| 8           |           |         | Formular: per = DMX_value /655.35    |
| 9           | 0-65535   | 0-100%  | <b>Warm</b>                          |
| 10          |           |         | Formular: per = DMX_value /655.35    |
| 11          | 0-65535   | 0-100%  | <b>Cool White</b>                    |
| 12          |           |         | Formular: per = DMX_value /655.35    |
| 13          | 0-65535   | 0-100%  | <b>Crossfade</b>                     |
| 14          |           |         | 0 full CCT, 65535 full RGBWW, smooth |
| 15          | 0-65535   | X*65535 | <b>X Coordinate</b>                  |
| 16          |           |         | Formular: X = DMX_value /65535       |
| 17          | 0-65535   | Y*65535 | <b>Y Coordinate</b>                  |
| 18          |           |         | Formular: Y = DMX_value /655.35      |

**RANK 2 - MODE 21 RGBWW+XY 16 Bit - 18 CH**

DMX Channel 19 - 36, the value and function is same as RANK 1

**RANK 3 - MODE 21 RGBWW+XY 16 Bit - 18 CH**

DMX Channel 37 - 54, the value and function is same as RANK 1

**RANK 1 - MODE 22 HSI+XY 8 Bit - 6 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392     |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |
| 2           | 0-255     | 0-360   | <b>Hue</b><br>Closed - Open<br>Formular: HUE = DMX_value *1.4118       |
| 3           | 0-255     | 0-100%  | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
| 4           | 0-255     | 0-100%  | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW, smooth fade            |
| 5           | 0-255     | X*255   | <b>X Coordinate</b><br>Formular: X = DMX_value /255                    |
| 6           | 0-255     | Y*255   | <b>Y Coordinate</b><br>Formular: Y = DMX_value /255                    |

**RANK 2 - MODE 22 HSI+XY 8 Bit - 6 CH**

DMX Channel 7 - 12, the value and function is same as RANK 1

**RANK 3 - MODE 22 HSI+XY 8 Bit - 6 CH**

DMX Channel 13 - 18, the value and function is same as RANK 1

**RANK 1 - MODE 23 HSI+XY 16 Bit - 12 CH**

| DMX Channel | DMX Value | Range  | Function      |
|-------------|-----------|--------|---------------|
| 1           | 0-65535   | 0-100% | <b>Dimmer</b> |
| 2           |           |        | Closed - Open |

|    |         |         |                                      |
|----|---------|---------|--------------------------------------|
| 3  | 0-65535 | 0-360   | <b>Hue</b>                           |
| 4  |         |         | Closed - Open                        |
| 5  | 0-65535 | 0-100%  | <b>Saturation</b>                    |
| 6  |         |         | Closed - Open                        |
| 7  | 0-65535 | 0-100%  | <b>Crossfade</b>                     |
| 8  |         |         | 0 full CCT, 65535 full RGBWW, smooth |
| 9  | 0-65535 | X*65535 | <b>X Coordinate</b>                  |
| 10 |         |         | Formular: X = DMX value /65535       |
| 11 | 0-65535 | Y*65535 | <b>Y Coordinate</b>                  |
| 12 |         |         | Formular: Y = DMX value /65535       |

**RANK 2 - MODE 23 HSI+XY 16 Bit - 12 CH**

DMX Channel 13 - 24, the value and function is same as RANK 1

**RANK 3 - MODE 23 HSI+XY 16 Bit - 12 CH**

DMX Channel 25 - 36 the value and function is same as RANK 1

**RANK 1 - MODE 24 EFFECT - CCT Chase 7 CH**

| DMX Channel | DMX Value | Range                            | Function   |
|-------------|-----------|----------------------------------|--|
| 1           | 0-51      | 0-20%                            | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392         |
|             | 51-102    | 20-40%                           |  |
|             | 102-153   | 40-60%                           |  |
|             | 153-204   | 60-80%                           |  |
|             | 204-255   | 80-100%                          |  |
| 2           | 000-014   |                                  | <b>CCT Chase</b>   |
| 3           | 0-255     | 2700-10000K                      | <b>CCT Start</b><br>Formular: Color Temperature = 2700 + DMX_value *28.627 |
| 4           | 0-255     | 2700-10000K                      | <b>CCT Stop</b><br>Formular: Color Temperature = 2700 + DMX_value *28.627  |
| 5           | 0-20      | 0%                               | <b>Green / Magenta</b>   |
|             | 21-30     | Full Magenta(100%)               |  |
|             | 31-129    | Magenta(99%-1%)                  |  |
|             | 130-140   | 0%                               |  |
|             | 141-240   | Green(1%-99%)                    |  |
|             | 241-255   | Green(100%)                      |  |
| 6           | 10-19     | Loop time increase<br>60 seconds | <b>Loop time (max 600 second)</b>  |
|             | 20-29     | 120 seconds                      |  |
|             | 30-39     | 180 seconds                      |  |
|             | 40-49     | 240 seconds                      |  |
|             | 50-59     | 300 seconds                      |  |
|             | 60-69     | 360 seconds                      |  |
|             | 70-79     | 420 seconds                      |  |
|             | 80-89     | 480 seconds                      |  |
|             | 90-99     | 540 seconds                      |  |
| 7           | 0-50      | 0-50 seconds                     | <b>Second/Loop</b>   |
|             | 50-100    | 50-100 seconds                   |  |
|             | 100-150   | 100-150 seconds                  |  |
|             | 150-200   | 150-200 seconds                  |  |
|             | 200-255   | 200-255 seconds                  |  |

**RANK 2 - MODE 24 EFFECT - CCT Chase 7 CH**

DMX Channel 8 - 14, the value and function is same as RANK 1

**RANK 3 - MODE 24 EFFECT - CCT Chase 7 CH**

DMX Channel 15 - 21, the value and function is same as RANK 1

**RANK 1 - MODE 24 EFFECT - Color Chase 7 CH**

| DMX Channel | DMX Value | Range | Function |
|-------------|-----------|-------|----------|
|-------------|-----------|-------|----------|

|   |   |  |  |
|---|---|--|--|
| 1 | 0-255   | 0-100%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392     |
| 2 | 015-026   |  | <b>Color Chase</b>   |
| 3 | 0-42<br>42-85<br>85-127<br>127-170<br>170-212<br>212-255                      | 0°-60°<br>60°-120°<br>120°-180°<br>180°-240°<br>240°-300°<br>300°-360°   | <b>HUE Start</b><br>Formular: HUE = DMX_value *1.4118                  |
| 4 | 0-42<br>42-85<br>85-127<br>127-170<br>170-212<br>212-255                      | 0°-60°<br>60°-120°<br>120°-180°<br>180°-240°<br>240°-300°<br>300°-360°   | <b>HUE Stop</b><br>Formular: HUE = DMX_value *1.4118                   |
| 5 | 0-255   | 0%   | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
| 6 | 10-19<br>20-29<br>30-39<br>40-49<br>50-59<br>60-69<br>70-79<br>80-89<br>90-99 | Loop time increase<br>60 seconds<br>120 seconds<br>180 seconds<br>240 seconds<br>300 seconds<br>360 seconds<br>420 seconds<br>480 seconds<br>540 seconds | <b>Loop time (max 600 second)</b>                                      |
| 7 | 0-50<br>50-100<br>100-150<br>150-200<br>200-255                               | 0-50 seconds<br>50-100 seconds<br>100-150 seconds<br>150-200 seconds<br>200-255 seconds  | <b>Second/Loop</b>   |

**RANK 2 - MODE 24 EFFECT - Color Chase 7 CH**

DMX Channel 8 - 14, the value and function is same as RANK 1

**RANK 3 - MODE 24 EFFECT - Color Chase 7 CH**

DMX Channel 15 - 21, the value and function is same as RANK 1

**RANK 1 - MODE 24 EFFECT - Fireworks 7 CH**

| DMX Channel | DMX Value                                       | Range  | Function   |
|-------------|---|--|--|
| 1           | 0-51<br>51-102<br>102-153<br>153-204<br>204-255 | 0-20%<br>20-40%<br>40-60%<br>60-80%<br>80-100% | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392     |
| 2           | 027-039   |  | <b>Fireworks</b>   |
| 3           | 0-255   | 0-360  | <b>HUE Start</b><br>Formular: HUE = DMX_value *1.4118                  |
| 4           | 0-255   | 0-360  | <b>HUE Stop</b><br>Formular: HUE = DMX_value *1.4118                   |
| 5           | 0-255   | 0-100%   | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
| 6           | 0-255   | 0-60   | <b>Explosion/min</b><br>Formular: speed = dmx_value/4.25               |
| 7           | 0-255   | 5-95   | <b>Duration</b><br>Formular: duty = 5+DMX_value *0.353                 |

**RANK 2 - MODE 24 EFFECT - Fireworks 7 CH**

DMX Channel 8 - 14, the value and function is same as RANK 1

**RANK 3 - MODE 24 EFFECT - Fireworks 7 CH**

DMX Channel 15 - 21, the value and function is same as RANK 1

**RANK 1 - MODE 24 EFFECT - Fire 4 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |
| 2           | 040-052   |         | <b>Fire</b>  |
| 3           | 0-255     | 0-100   | <b>Wind Speed</b><br>Formular: per = DMX_value *0.392              |
| 4           | 0-49      | 0-49    | <b>Fire Type: Candle</b>   |
|             | 50-99     | 50-99   | <b>Fire Type: Campfire</b>   |
|             | 100-149   | 100-149 | <b>Fire Type: bonfire</b>  |

**RANK 1 - MODE 24 EFFECT - Fire 4 CH**

DMX Channel 5 - 8, the value and function is same as RANK 1

**RANK 1 - MODE 24 EFFECT - Fire 4 CH**

DMX Channel 9 - 12, the value and function is same as RANK 1

**RANK 1 - MODE 24 EFFECT - Explosion 5 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |
| 2           | 053-065   |         | <b>Explosion</b>   |
| 3           | 0-255     | 0-60    | <b>Explosion/min</b><br>Formular: speed = DMX_value /4.25          |
| 4           | 0-255     | 5-95    | <b>Duration</b><br>Formular: duty = 5 + DMX_value *0.353           |
| 5           | 0-49      | 0-49    | Fire Type: Warm  |
|             | 50-99     | 50-99   | <b>Fire Type: Cool</b>   |
|             | 100-149   | 100-149 | <b>Fire Type: Colors</b>   |

**RANK 2 - MODE 24 EFFECT - Explosion 5 CH**

DMX Channel 6 - 10, the value and function is same as RANK 1

**RANK 3 - MODE 24 EFFECT - Explosion 5 CH**

DMX Channel 11 - 15, the value and function is same as RANK 1

**RANK 1 - MODE 24 EFFECT - Lightning 5 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |
| 2           | 50-59     |         | <b>Lightning</b>   |



|   |         |                    |   |
|---|---------|--------------------|---|
| 3 | 0-255   | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+DMX_value<br>*28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
| 4 | 0-20    | 0%                 | <b>Green / Magenta</b>  |
|   | 21-30   | Full Magenta(100%) |   |
|   | 31-129  | Magenta(99%-1%)    |   |
|   | 130-140 | 0%                 |   |
|   | 141-240 | Green(1%-99%)      |   |
|   | 241-255 | Green(100%)        |   |
| 5 | 0-255   | 1-60               | <b>Intervals (Second)</b><br>Formular: time = DMX_value /4.25   |

**RANK 2 - MODE 24 EFFECT - Lightning 5 CH**  
DMX Channel 6 - 10, the value and function is same as RANK 1

**RANK 3 - MODE 24 EFFECT - Lightning 5 CH**  
DMX Channel 11 - 15, the value and function is same as RANK 1

**RANK 1 - MODE 24 EFFECT - Paparazzi 6 CH**

| DMX Channel | DMX Value     | Range       | Function  |         |                    |
|-------------|---------------|-------------|---|---------|--------------------|
| 1           | 0-51          | 0-20%       | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392  |         |                    |
|             | 51-102        | 20-40%      |   |         |                    |
|             | 102-153       | 40-60%      |   |         |                    |
|             | 153-204       | 60-80%      |   |         |                    |
|             | 204-255       | 80-100%     |   |         |                    |
| 2           | 078-090       |             | <b>Paparazzi</b>  |         |                    |
| 3           | 0-255         | 2700-10000K | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+<br>DMX_value*28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |         |                    |
|             |               |             | <b>Green / Magenta</b>  |         |                    |
|             |               |             |   | 0-20    | 0%                 |
|             |               |             |   | 21-30   | Full Magenta(100%) |
|             |               |             |   | 31-129  | Magenta(99%-1%)    |
|             |               |             |   | 130-140 | 0%                 |
| 141-240     | Green(1%-99%) |             |   |         |                    |
| 241-255     | Green(100%)   |             |   |         |                    |
| 5           | 0-255         | 0-25Hz      | <b>Frequency</b><br>Formular: frequency = DMX_value /10.2   |         |                    |
| 6           | 0-49          | 0-49        | <b>Bulb Type: Slow</b>  |         |                    |
|             | 50-99         | 50-99       | <b>Bulb Type: Medium</b>  |         |                    |
|             | 100-149       | 100-149     | <b>Bulb Type: Fast</b>  |         |                    |
|             | 150-199       | 150-199     | <b>Bulb Type: Modern</b>  |         |                    |

**RANK 2 - MODE 24 EFFECT - Paparazzi 6 CH**  
DMX Channel 7 - 12, the value and function is same as RANK 1

**RANK 3 - MODE 24 EFFECT - Paparazzi 6 CH**  
DMX Channel 13 - 18, the value and function is same as RANK 1

**RANK 1 - MODE 24 EFFECT - Pulse 5 CH**

| DMX Channel | DMX Value | Range | Function |
|-------------|-----------|-------|----------|
|-------------|-----------|-------|----------|

|   |   |  |  |
|---|---|--|--|
| 1 | 0-51<br>51-102<br>102-153<br>153-204<br>204-255 | 0-20%<br>20-40%<br>40-60%<br>60-80%<br>80-100% | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392     |
| 2 | 091-103   |  | <b>Pulse</b>   |
| 3 | 0-255   | 0-360  | <b>HUE</b><br>Formular: HUE = DMX_value *1.4118                        |
| 4 | 0-255   | 0-100%   | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
| 5 | 0-255   | 1-200  | <b>Pulses/min</b><br>Formular: frequency = 1+DMX_value / 1.281         |

**RANK 2 - MODE 24 EFFECT - Pulse 5 CH**

DMX Channel 6 - 10, the value and function is same as RANK 1

**RANK 3 - MODE 24 EFFECT - Pulse 5 CH**

DMX Channel 11 - 15, the value and function is same as RANK 1

**RANK 1 - MODE 24 EFFECT - Police 6 CH**

| DMX Channel | DMX Value                                       | Range  | Function   |
|-------------|---|--|--|
| 1           | 0-51<br>51-102<br>102-153<br>153-204<br>204-255 | 0-20%<br>20-40%<br>40-60%<br>60-80%<br>80-100% | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
| 2           | 104-116   |  | <b>Police</b>  |
| 3           | 0-9   | 0-9  | <b>Colors:</b> Red, Blue & White                                   |
|             | 10--19  | 10--19   | <b>Colors:</b> Red & Blue  |
|             | 20--29  | 20--29   | <b>Colors:</b> Red & White   |
|             | 30--39  | 30--39   | <b>Colors:</b> Blue & White  |
|             | 40--49  | 40--49   | <b>Colors:</b> Blue  |
|             | 50--59  | 50--59   | <b>Colors:</b> Red   |
| 4           | 60--69  | 60--69   | <b>Colors:</b> Amber   |
|             | 0-49  | 0-49   | <b>Flash/cycle:</b> 1  |
|             | 50-99   | 50-99  | <b>Flash/cycle:</b> 2  |
|             | 100-149   | 100-149  | <b>Flash/cycle:</b> 3  |
| 5           | 150-199   | 150-199  | <b>Flash/cycle:</b> 4  |
|             | 0-255   | 0-100  | <b>Speed</b><br>Formular: per = DMX_value *0.392                   |
| 6           | 0-255   | 5-95   | <b>Duration</b><br>Formular: duty = 5+ DMX_value *0.353            |

**RANK 2 - MODE 24 EFFECT - Police 6 CH**

DMX Channel 7 - 12, the value and function is same as RANK 1

**RANK 3 - MODE 24 EFFECT - Police 6 CH**

DMX Channel 13 - 18, the value and function is same as RANK 1

**RANK 1 - MODE 24 EFFECT - Strobe Color 6 CH**

| DMX Channel | DMX Value                                       | Range  | Function   |
|-------------|---|--|--|
| 1           | 0-51<br>51-102<br>102-153<br>153-204<br>204-255 | 0-20%<br>20-40%<br>40-60%<br>60-80%<br>80-100% | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
| 2           | 117-128   |  | <b>Strobe Color</b>  |
| 3           | 0-255   | 0-360  | <b>HUE</b><br>Formular: HUE = DMX_value *1.4118                    |

|   |       |        |  |
|---|-------|--------|--|
| 4 | 0-255 | 0-100  | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
| 5 | 0-255 | 0-25Hz | <b>Frequency</b><br>Formular: Frequency = DMX_value /10.2              |
| 6 | 0-255 | 5-95   | <b>Duration</b><br>Formular: duty = 5+ DMX_value *0.353                |

**RANK 2 - MODE 24 EFFECT - Strobe Color 6 CH**  
DMX Channel 7 - 12, the value and function is same as RANK 1

**RANK 3 - MODE 24 EFFECT - Strobe Color 6 CH**  
DMX Channel 13 - 18, the value and function is same as RANK 1

| <b>RANK 1 - MODE 24 EFFECT - Strobe CCT 6 CH</b> |             |                    |  |
|--|-------------|--------------------|--|
| DMX Channel                                      | DMX Value   | Range              | Function   |
| 1  | 0-51        | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392   |
|  | 51-102      | 20-40%             |  |
|  | 102-153     | 40-60%             |  |
|  | 153-204     | 60-80%             |  |
|  | 204-255     | 80-100%            |  |
| 2  | 129-141     |                    | <b>Strobe CCT</b>  |
| 3  | 0-255       | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+DMX_value *28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
| 4  | 0-20        | 0%                 | <b>Green / Magenta</b>   |
|  | 21-30       | Full Magenta(100%) |  |
|  | 31-129      | Magenta(99%-1%)    |  |
|  | 130-140     | 0%                 |  |
|  | 141-240     | Green(1%-99%)      |  |
| 241-255  | Green(100%) |                    |  |
| 5  | 0-255       | 0-25Hz             | <b>Frequency</b><br>Formular: frequency = DMX_value /10.2  |
| 6  | 0-255       | 5-95               | <b>Duration</b><br>Formular: duty = 5+ DMX_value *0.353  |

**RANK 2 - MODE 24 EFFECT - Strobe CCT 6 CH**  
DMX Channel 7 - 12, the value and function is same as RANK 1

**RANK 3 - MODE 24 EFFECT - Strobe CCT 6 CH**  
DMX Channel 13 - 18, the value and function is same as RANK 1

| <b>RANK 1 - MODE 25 Macro - 2 CH</b> |           |         |  |
|--------------------------------------|-----------|---------|--|
| DMX Channel                          | DMX Value | Range   | Function   |
| 1                                    | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|                                      | 51-102    | 20-40%  |  |
|                                      | 102-153   | 40-60%  |  |
|                                      | 153-204   | 60-80%  |  |
|                                      | 204-255   | 80-100% |  |
| 2                                    | 0-46      | 0-46    | Pls check: Appendix I Macro  |

**RANK 2 - MODE 25 Macro - 2 CH**  
DMX Channel 3 - 4, the value and function is same as RANK 1

**RANK 3 - MODE 25 Macro - 2 CH**  
DMX Channel 5 - 6, the value and function is same as RANK 1

**INDIVIDUAL MODE (LIGHT 1 - 12)**

| <b>LIGHT 1 - MODE 1      CCT 8 Bit - 3 CH</b> |                  |                    |  |
|---|------------------|--------------------|--|
| <b>DMX Channel</b>                            | <b>DMX Value</b> | <b>Range</b>       | <b>Function</b>  |
| 1   | 0-51             | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392   |
|   | 51-102           | 20-40%             |  |
|   | 102-153          | 40-60%             |  |
|   | 153-204          | 60-80%             |  |
|   | 204-255          | 80-100%            |  |
| 2   | 0-255            | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br><br>Formular:<br>Color Temperature = 2700+DMX_value *28.627<br><br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
|   |                  |                    |  |
| 3   | 0-20             | 0                  | <b>Green / Magenta</b>   |
|   | 21-30            | Full Magenta(100%) |  |
|   | 30-130           | Magenta(99%-1%)    |  |
|   | 130-140          | 0%                 |  |
|   | 141-240          | Green(1%-99%)      |  |
|   | 241-255          | Green(100%)        |  |

**LIGHT 2 - MODE 1      CCT 8 Bit - 3 CH**

DMX Channel 4 - 6, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 1      CCT 8 Bit - 3 CH**

DMX Channel 7 - 9, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 1      CCT 8 Bit - 3 CH**

DMX Channel 10 - 12, the value and function is same as LIGHT 1

**LIGHT 5 - MODE 1      CCT 8 Bit - 3 CH**

DMX Channel 13 - 15, the value and function is same as LIGHT 1

**LIGHT 6 - MODE 1      CCT 8 Bit - 3 CH**

DMX Channel 16 - 18, the value and function is same as LIGHT 1

**LIGHT 7 - MODE 1      CCT 8 Bit - 3 CH**

DMX Channel 19 - 21, the value and function is same as LIGHT 1

**LIGHT 8 - MODE 1      CCT 8 Bit - 3 CH**

DMX Channel 22 - 24, the value and function is same as LIGHT 1

**LIGHT 9 - MODE 1      CCT 8 Bit - 3 CH**

DMX Channel 25 - 27, the value and function is same as LIGHT 1

**LIGHT 10 - MODE 1      CCT 8 Bit - 3 CH**

DMX Channel 28 - 30, the value and function is same as LIGHT 1

**LIGHT 11 - MODE 1      CCT 8 Bit - 3 CH**

DMX Channel 31 - 33, the value and function is same as LIGHT 1

**LIGHT 12 - MODE 1      CCT 8 Bit - 3 CH**

DMX Channel 34 - 36, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 2      CCT 16 Bit - 6 CH**

| <b>DMX Channel</b> | <b>DMX Value</b> | <b>Range</b> | <b>Function</b>                |
|--------------------|------------------|--------------|--------------------------------|
| 1                  | 0-65535          | 0-100%       | <b>Dimmer</b><br>Closed - Open |
| 2                  |                  |              |                                |

|   |             |                    |   |
|---|-------------|--------------------|---|
| 3 | 0-65535     | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open |
| 4 |             |                    |   |
| 5 | 0-5000      | 0%                 | <b>Green / Magenta</b>                    |
|   | 5001-10000  | Full Magenta(100%) |   |
|   | 10001-29999 | Magenta(99%-1%)    |   |
| 6 | 30000-40000 | 0%                 |   |
|   | 40001-59999 | Green(1%-99%)      |   |
|   | 60000-65535 | Green(100%)        |   |

**LIGHT 2 - MODE 2 CCT 16 Bit - 6 CH**

DMX Channel 7 - 12, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 2 CCT 16 Bit - 6 CH**

DMX Channel 13 - 18, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 2 CCT 16 Bit - 6 CH**

DMX Channel 19 - 24, the value and function is same as LIGHT 1

**LIGHT 5 - MODE 2 CCT 16 Bit - 6 CH**

DMX Channel 25 - 30, the value and function is same as LIGHT 1

**LIGHT 6 - MODE 2 CCT 16 Bit - 6 CH**

DMX Channel 31 - 36, the value and function is same as LIGHT 1

**LIGHT 7 - MODE 2 CCT 16 Bit - 6 CH**

DMX Channel 37 - 42, the value and function is same as LIGHT 1

**LIGHT 8 - MODE 2 CCT 16 Bit - 6 CH**

DMX Channel 43 - 48, the value and function is same as LIGHT 1

**LIGHT 9 - MODE 2 CCT 16 Bit - 6 CH**

DMX Channel 49 - 54, the value and function is same as LIGHT 1

**LIGHT 10 - MODE 2 CCT 16 Bit - 6 CH**

DMX Channel 55 - 60, the value and function is same as LIGHT 1

**LIGHT 11 - MODE 2 CCT 16 Bit - 6 CH**

DMX Channel 61 - 66, the value and function is same as LIGHT 1

**LIGHT 12 - MODE 2 CCT 16 Bit - 6 CH**

DMX Channel 67 - 72, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 3 HSI 8 Bit - 3 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392     |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |
| 2           | 0-255     | 0-360   | <b>Hue</b><br>Closed - Open<br>Formular: HUE = DMX_value *1.4118       |
| 3           | 0-255     | 0-100%  | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |

**LIGHT 2 - MODE 3 HSI 8 Bit - 3 CH**

DMX Channel 4 - 6, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 3 HSI 8 Bit - 3 CH**

DMX Channel 7 - 9, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 3 HSI 8 Bit - 3 CH**

DMX Channel 10 - 12, the value and function is same as LIGHT 1

**LIGHT 5 - MODE 3 HSI 8 Bit - 3 CH**

DMX Channel 13 - 15, the value and function is same as LIGHT 1

**LIGHT 6 - MODE 3 HSI 8 Bit - 3 CH**

DMX Channel 16 - 18, the value and function is same as LIGHT 1

**LIGHT 7 - MODE 3 HSI 8 Bit - 3 CH**

DMX Channel 19 - 21, the value and function is same as LIGHT 1

**LIGHT 8 - MODE 3 HSI 8 Bit - 3 CH**

DMX Channel 22 - 24, the value and function is same as LIGHT 1

**LIGHT 9 - MODE 3 HSI 8 Bit - 3 CH**

DMX Channel 25 - 27, the value and function is same as LIGHT 1

**LIGHT 10 - MODE 3 HSI 8 Bit - 3 CH**

DMX Channel 28 - 30, the value and function is same as LIGHT 1

**LIGHT 11 - MODE 3 HSI 8 Bit - 3 CH**

DMX Channel 31 - 33, the value and function is same as LIGHT 1

**LIGHT 12 - MODE 3 HSI 8 Bit - 3 CH**

DMX Channel 34 - 36, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 4 HSI 16 Bit - 6 CH**

| DMX Channel | DMX Value | Range  | Function          |
|-------------|-----------|--------|-------------------|
| 1           | 0-65535   | 0-100% | <b>Dimmer</b>     |
| 2           |           |        | Closed - Open     |
| 3           | 0-65535   | 0-360  | <b>Hue</b>        |
| 4           |           |        | Closed - Open     |
| 5           | 0-65535   | 0-100% | <b>Saturation</b> |
| 6           |           |        | Closed - Open     |

**LIGHT 2 - MODE 4 HSI 16 Bit - 6 CH**

DMX Channel 7 - 12, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 4 HSI 16 Bit - 6 CH**

DMX Channel 13 - 18, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 4 HSI 16 Bit - 6 CH**

DMX Channel 19 - 24, the value and function is same as LIGHT 1

**LIGHT 5 - MODE 4 HSI 16 Bit - 6 CH**

DMX Channel 25 - 30, the value and function is same as LIGHT 1

**LIGHT 6 - MODE 4 HSI 16 Bit - 6 CH**

DMX Channel 31 - 36, the value and function is same as LIGHT 1

**LIGHT 7 - MODE 4 HSI 16 Bit - 6 CH**

DMX Channel 37 - 42, the value and function is same as LIGHT 1

**LIGHT 8 - MODE 4 HSI 16 Bit - 6 CH**

DMX Channel 43 - 48, the value and function is same as LIGHT 1

**LIGHT 9 - MODE 4 HSI 16 Bit - 6 CH**

DMX Channel 49 - 54, the value and function is same as LIGHT 1

**LIGHT 10 - MODE 4 HSI 16 Bit - 6 CH**

DMX Channel 55 - 60, the value and function is same as LIGHT 1

**LIGHT 11 - MODE 4 HSI 16 Bit - 6 CH**

DMX Channel 61 - 66, the value and function is same as LIGHT 1

**LIGHT 12 - MODE 4 HSI 16 Bit - 6 CH**

DMX Channel 67 - 72, the value and function is same as LIGHT 1

| <b>LIGHT 1 - MODE 5 XY 8 Bit - 3 CH</b> |           |         |  |
|---|-----------|---------|--|
| DMX Channel                             | DMX Value | Range   | Function   |
| 1                                       | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|   | 51-102    | 20-40%  |  |
|   | 102-153   | 40-60%  |  |
|   | 153-204   | 60-80%  |  |
|   | 204-255   | 80-100% |  |
| 2                                       | 0-255     | X*255   | <b>X Coordinate</b><br>Formular: X = DMX_value /255                |
| 3                                       | 0-255     | Y*255   | <b>Y Coordinate</b><br>Formular: Y = DMX_value /255                |

**LIGHT 2 - MODE 5 XY 8 Bit - 3 CH**

DMX Channel 4 - 6, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 5 XY 8 Bit - 3 CH**

DMX Channel 7 - 9, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 5 XY 8 Bit - 3 CH**

DMX Channel 10 - 12, the value and function is same as LIGHT 1

**LIGHT 5 - MODE 5 XY 8 Bit - 3 CH**

DMX Channel 13 - 15, the value and function is same as LIGHT 1

**LIGHT 6 - MODE 5 XY 8 Bit - 3 CH**

DMX Channel 16 - 18, the value and function is same as LIGHT 1

**LIGHT 7 - MODE 5 XY 8 Bit - 3 CH**

DMX Channel 19 - 21, the value and function is same as LIGHT 1

**LIGHT 8 - MODE 5 XY 8 Bit - 3 CH**

DMX Channel 22 - 24, the value and function is same as LIGHT 1

**LIGHT 9 - MODE 5 XY 8 Bit - 3 CH**

DMX Channel 25 - 27, the value and function is same as LIGHT 1

**LIGHT 10 - MODE 5 XY 8 Bit - 3 CH**

DMX Channel 28 - 30, the value and function is same as LIGHT 1

**LIGHT 11 - MODE 5 XY 8 Bit - 3 CH**

DMX Channel 31 - 33, the value and function is same as LIGHT 1

**LIGHT 12 - MODE 5 XY 8 Bit - 3 CH**

DMX Channel 34 - 36, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 6 XY 16 Bit - 6 CH**

| DMX Channel | DMX Value | Range   | Function  |
|-------------|-----------|---------|---|
| 1           | 0-65535   | 0-100%  | <b>Dimmer</b><br>Closed – Open                        |
| 2           |           |         |   |
| 3           | 0-65535   | X*65535 | <b>X Coordinate</b><br>Formular: X = DMX_value /65535 |
| 4           |           |         |   |
| 5           | 0-65535   | Y*65535 | <b>Y Coordinate</b><br>Formular: Y = DMX_value /65535 |
| 6           |           |         |   |

**LIGHT 2 - MODE 6 XY 16 Bit - 6 CH**

DMX Channel 7 - 12, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 6 XY 16 Bit - 6 CH**

DMX Channel 13 - 18, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 6 XY 16 Bit - 6 CH**

DMX Channel 19 - 24, the value and function is same as LIGHT 1

**LIGHT 5 - MODE 6 XY 16 Bit - 6 CH**

DMX Channel 25 - 30, the value and function is same as LIGHT 1

**LIGHT 6 - MODE 6 XY 16 Bit - 6 CH**

DMX Channel 31 - 36, the value and function is same as LIGHT 1

**LIGHT 7 - MODE 6 XY 16 Bit - 6 CH**

DMX Channel 37 - 42, the value and function is same as LIGHT 1

**LIGHT 8 - MODE 6 XY 16 Bit - 6 CH**

DMX Channel 43 - 48, the value and function is same as LIGHT 1

**LIGHT 9 - MODE 6 XY 16 Bit - 6 CH**

DMX Channel 49 - 54, the value and function is same as LIGHT 1

**LIGHT 10 - MODE 6 XY 16 Bit - 6 CH**

DMX Channel 55 - 60, the value and function is same as LIGHT 1

**LIGHT 11 - MODE 6 XY 16 Bit - 6 CH**

DMX Channel 61 - 66, the value and function is same as LIGHT 1

**LIGHT 12 - MODE 6 XY 16 Bit - 6 CH**

DMX Channel 67 - 72, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 7 RGBWW 8 Bit - 6 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |
| 2           | 0-255     | 0-100%  | <b>Red</b><br>Formular: per = DMX_value *0.392                     |
| 3           | 0-255     | 0-100%  | <b>Green</b><br>Formular: per = DMX_value *0.392                   |
| 4           | 0-255     | 0-100%  | <b>Blue</b><br>Formular: per = DMX_value *0.392                    |
| 5           | 0-255     | 0-100%  | <b>Warm White</b><br>Formular: per = DMX_value *0.392              |
| 6           | 0-255     | 0-100%  | <b>Cool White</b><br>Formular: per = DMX_value *0.392              |

**LIGHT 2 - MODE 7 RGBWW 8 Bit - 6 CH**

DMX Channel 7 - 12, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 7 RGBWW 8 Bit - 6 CH**

DMX Channel 13 - 18, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 7 RGBWW 8 Bit - 6 CH**

DMX Channel 19 - 24, the value and function is same as LIGHT 1

**LIGHT 5 - MODE 7 RGBWW 8 Bit - 6 CH**

DMX Channel 25 - 30, the value and function is same as LIGHT 1

**LIGHT 6 - MODE 7 RGBWW 8 Bit - 6 CH**

DMX Channel 31 - 36, the value and function is same as LIGHT 1

**LIGHT 7 - MODE 7 RGBWW 8 Bit - 6 CH**

DMX Channel 37 - 42, the value and function is same as LIGHT 1

**LIGHT 8 - MODE 7 RGBWW 8 Bit - 6 CH**

DMX Channel 43 - 48, the value and function is same as LIGHT 1

**LIGHT 9 - MODE 7 RGBWW 8 Bit - 6 CH**

DMX Channel 49 - 54, the value and function is same as LIGHT 1



**LIGHT 10 - MODE 7 RGBWW 8 Bit - 6 CH**

DMX Channel 55 - 60, the value and function is same as LIGHT 1

**LIGHT 11 - MODE 7 RGBWW 8 Bit - 6 CH**

DMX Channel 61 - 66, the value and function is same as LIGHT 1

**LIGHT 12 - MODE 7 RGBWW 8 Bit - 6 CH**

DMX Channel 67 - 72, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 8 RGBWW 16 Bit - 12 CH**

| DMX Channel | DMX Value | Range  | Function   |
|-------------|-----------|--------|--|
| 1           | 0-65535   | 0-100% | <b>Dimmer</b><br>Closed - Open                         |
| 2           |           |        |  |
| 3           | 0-65535   | 0-100% | <b>Red</b><br>Formular: per = DMX_value /655.35        |
| 4           |           |        |  |
| 5           | 0-65535   | 0-100% | <b>Green</b><br>Formular: per = DMX_value /655.35      |
| 6           |           |        |  |
| 7           | 0-65535   | 0-100% | <b>Blue</b><br>Formular: per = DMX_value /655.35       |
| 8           |           |        |  |
| 9           | 0-65535   | 0-100% | <b>Warm White</b><br>Formular: per = DMX_value /655.35 |
| 10          |           |        |  |
| 11          | 0-65535   | 0-100% | <b>Cool White</b><br>Formular: per = DMX_value /655.35 |
| 12          |           |        |  |

**LIGHT 2 - MODE 8 RGBWW 16 Bit - 12 CH**

DMX Channel 13 - 24, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 8 RGBWW 16 Bit - 12 CH**

DMX Channel 25 - 36, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 8 RGBWW 16 Bit - 12 CH**

DMX Channel 37 - 48, the value and function is same as LIGHT 1

**LIGHT 5 - MODE 8 RGBWW 16 Bit - 12 CH**

DMX Channel 49 - 60, the value and function is same as LIGHT 1

**LIGHT 6 - MODE 8 RGBWW 16 Bit - 12 CH**

DMX Channel 61 - 72, the value and function is same as LIGHT 1

**LIGHT 7 - MODE 8 RGBWW 16 Bit - 12 CH**

DMX Channel 73 - 84, the value and function is same as LIGHT 1

**LIGHT 8 - MODE 8 RGBWW 16 Bit - 12 CH**

DMX Channel 85 - 96, the value and function is same as LIGHT 1

**LIGHT 9 - MODE 8 RGBWW 16 Bit - 12 CH**

DMX Channel 97 - 108, the value and function is same as LIGHT 1

**LIGHT 10 - MODE 8 RGBWW 16 Bit - 12 CH**

DMX Channel 109 - 120, the value and function is same as LIGHT 1

**LIGHT 11 - MODE 8 RGBWW 16 Bit - 12 CH**

DMX Channel 121 - 132, the value and function is same as LIGHT 1

**LIGHT 12 - MODE 8 RGBWW 16 Bit - 12 CH**

DMX Channel 133 - 144, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 9 GEL 8 Bit - 4 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |
| 2           | 0-127     | 3200K   | <b>3200K</b>   |

|   |         |          |                                      |
|---|---------|----------|--------------------------------------|
| 2 | 128-255 | 5600K    | <b>5600K</b>                         |
| 3 | 0-127   | Group I  | <b>Select Group I</b>                |
|   | 128-255 | Group II | <b>Select Group II</b>               |
| 4 | 0-121   | 1-122    | <b>GEL Filter Number in Group I</b>  |
|   | 0-190   | 123-313  | <b>GEL Filter Number in Group II</b> |

**LIGHT 2 - MODE 9 GEL 8 Bit - 4 CH**

DMX Channel 5 - 8, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 9 GEL 8 Bit - 4 CH**

DMX Channel 9 - 12, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 9 GEL 8 Bit - 4 CH**

DMX Channel 13 - 16, the value and function is same as LIGHT 1

**LIGHT 5 - MODE 9 GEL 8 Bit - 4 CH**

DMX Channel 17 - 20, the value and function is same as LIGHT 1

**LIGHT 6 - MODE 9 GEL 8 Bit - 4 CH**

DMX Channel 21 - 24, the value and function is same as LIGHT 1

**LIGHT 7 - MODE 9 GEL 8 Bit - 4 CH**

DMX Channel 25 - 28, the value and function is same as LIGHT 1

**LIGHT 8 - MODE 9 GEL 8 Bit - 4 CH**

DMX Channel 29 - 32, the value and function is same as LIGHT 1

**LIGHT 9 - MODE 9 GEL 8 Bit - 4 CH**

DMX Channel 33 - 36, the value and function is same as LIGHT 1

**LIGHT 10 - MODE 9 GEL 8 Bit - 4 CH**

DMX Channel 37 - 40, the value and function is same as LIGHT 1

**LIGHT 11 - MODE 9 GEL 8 Bit - 4 CH**

DMX Channel 41 - 44, the value and function is same as LIGHT 1

**LIGHT 12 - MODE 9 GEL 8 Bit - 4 CH**

DMX Channel 45 - 48, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 10 CCT+RGBWW 8 Bit - 9 CH**

| DMX Channel | DMX Value | Range              | Function   |
|-------------|-----------|--------------------|--|
| 1           | 0-51      | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392   |
|             | 51-102    | 20-40%             |  |
|             | 102-153   | 40-60%             |  |
|             | 153-204   | 60-80%             |  |
|             | 204-255   | 80-100%            |  |
| 2           | 0-255     | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+DMX_value *28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
| 3           | 0-20      | 0%                 | <b>Green / Magenta</b>   |
|             | 21-30     | Full Magenta(100%) |  |
|             | 31-129    | Magenta(99%-1%)    |  |
|             | 130-140   | 0%                 |  |
|             | 141-240   | Green(1%-99%)      |  |
|             | 241-255   | Green(100%)        |  |
| 4           | 0-255     | 0-100%             | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW, smooth fade  |

|   |       |        |   |
|---|-------|--------|---|
| 5 | 0-255 | 0-100% | <b>Red</b><br>Formular: per = DMX_value *0.392        |
| 6 | 0-255 | 0-100% | <b>Green</b><br>Formular: per = DMX_value *0.392      |
| 7 | 0-255 | 0-100% | <b>Blue</b><br>Formular: per = DMX_value *0.392       |
| 8 | 0-255 | 0-100% | <b>Warm White</b><br>Formular: per = DMX_value *0.392 |
| 9 | 0-255 | 0-100% | <b>Cool White</b><br>Formular: per = DMX_value *0.392 |

**LIGHT 2 - MODE 10 CCT+RGBWW 8 Bit - 9 CH**

DMX Channel 10 - 18, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 10 CCT+RGBWW 8 Bit - 9 CH**

DMX Channel 19 - 27, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 10 CCT+RGBWW 8 Bit - 9 CH**

DMX Channel 28 - 36, the value and function is same as LIGHT 1

**LIGHT 5 - MODE 10 CCT+RGBWW 8 Bit - 9 CH**

DMX Channel 37 - 45, the value and function is same as LIGHT 1

**LIGHT 6 - MODE 10 CCT+RGBWW 8 Bit - 9 CH**

DMX Channel 46 -54, the value and function is same as LIGHT 1

**LIGHT 7 - MODE 10 CCT+RGBWW 8 Bit - 9 CH**

DMX Channel 55 - 63, the value and function is same as LIGHT 1

**LIGHT 8 - MODE 10 CCT+RGBWW 8 Bit - 9 CH**

DMX Channel 64 - 72, the value and function is same as LIGHT 1

**LIGHT 9 - MODE 10 CCT+RGBWW 8 Bit - 9 CH**

DMX Channel 73 - 81, the value and function is same as LIGHT 1

**LIGHT 10 - MODE 10 CCT+RGBWW 8 Bit - 9 CH**

DMX Channel 82 - 90, the value and function is same as LIGHT 1

**LIGHT 11 - MODE 10 CCT+RGBWW 8 Bit - 9 CH**

DMX Channel 91 - 99, the value and function is same as LIGHT 1

**LIGHT 12 - MODE 10 CCT+RGBWW 8 Bit - 9 CH**

DMX Channel 100 - 108, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 11 CCT+RGBWW 16 Bit - 18 CH**

| DMX Channel | DMX Value   | Range              | Function   |
|-------------|-------------|--------------------|--|
| 1           | 0-65535     | 0-100%             | <b>Dimmer</b><br>Closed - Open                           |
| 2           |             |                    |  |
| 3           | 0-65535     | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open                |
| 4           |             |                    |  |
| 5           | 0-5000      | 0%                 | <b>Green / Magenta</b>                                   |
|             | 5001-10000  | Full Magenta(100%) |  |
|             | 10001-29999 | Magenta(99%-1%)    |  |
| 6           | 30000-40000 | 0%                 |  |
|             | 40001-59999 | Green(1%-99%)      |  |
|             | 60000-65535 | Green(100%)        |  |
| 7           | 0-65535     | 0-100%             | <b>Crossfade</b><br>0 full CCT, 65535 full RGBWW, smooth |
| 8           |             |                    |  |
| 9           | 0-65535     | 0-100%             | <b>Red</b><br>Formular: per = DMX_value /655.35          |
| 10          |             |                    |  |
| 11          | 0-65535     | 0-100%             | <b>Green</b><br>Formular: per = DMX_value /655.35        |
| 12          |             |                    |  |
| 13          | 0-65535     | 0-100%             | <b>Blue</b><br>Formular: per = DMX_value /655.35         |
| 14          |             |                    |  |
| 15          | 0-65535     | 0-100%             | <b>Warm White</b>  |

|    |         |        |                                   |
|----|---------|--------|-----------------------------------|
| 16 | 0-65535 | 0-100% | Formular: per = DMX_value /655.35 |
| 17 | 0-65535 | 0-100% | <b>Cool White</b>                 |
| 18 |         |        | Formular: per = DMX_value /655.35 |

**LIGHT 2 - MODE 11 :CT+RGBWW 16 Bit - 18 CH**

DMX Channel 19 - 36, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 11 :CT+RGBWW 16 Bit - 18 CH**

DMX Channel 37 - 54, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 11 :CT+RGBWW 16 Bit - 18 CH**

DMX Channel 55 - 72, the value and function is same as LIGHT 1

**LIGHT 5 - MODE 11 :CT+RGBWW 16 Bit - 18 CH**

DMX Channel 73 - 90, the value and function is same as LIGHT 1

**LIGHT 6 - MODE 11 :CT+RGBWW 16 Bit - 18 CH**

DMX Channel 91 - 108, the value and function is same as LIGHT 1

**LIGHT 7 - MODE 11 :CT+RGBWW 16 Bit - 18 CH**

DMX Channel 109 - 126, the value and function is same as LIGHT 1

**LIGHT 8 - MODE 11 :CT+RGBWW 16 Bit - 18 CH**

DMX Channel 127 - 144, the value and function is same as LIGHT 1

**LIGHT 9 - MODE 11 :CT+RGBWW 16 Bit - 18 CH**

DMX Channel 145 - 162, the value and function is same as LIGHT 1

**LIGHT 10 - MODE 11:CT+RGBWW 16 Bit - 18 CH**

DMX Channel 163 - 180, the value and function is same as LIGHT 1

**LIGHT 11 - MODE 11:CT+RGBWW 16 Bit - 18 CH**

DMX Channel 181 - 198, the value and function is same as LIGHT 1

**LIGHT 12 - MODE 11:CT+RGBWW 16 Bit - 18 CH**

DMX Channel 199 - 216, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 12 CCT+HSI 8 Bit - 6 CH**

| DMX Channel | DMX Value   | Range              | Function   |
|-------------|-------------|--------------------|--|
| 1           | 0-51        | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392   |
|             | 51-102      | 20-40%             |  |
|             | 102-153     | 40-60%             |  |
|             | 153-204     | 60-80%             |  |
|             | 204-255     | 80-100%            |  |
| 2           | 0-255       | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+DMX_value *28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
| 3           | 0-20        | 0%                 | <b>Green / Magenta</b>   |
|             | 21-30       | Full Magenta(100%) |  |
|             | 31-129      | Magenta(99%-1%)    |  |
|             | 130-140     | 0%                 |  |
|             | 141-240     | Green(1%-99%)      |  |
| 241-255     | Green(100%) |                    |  |
| 4           | 0-255       | 0-100%             | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW, smooth fade  |
| 5           | 0-255       | 0-360              | <b>HUE</b><br>Formular: HUE = DMX_value *1.4118  |

|   |       |        |  |
|---|-------|--------|--|
| 6 | 0-255 | 0-100% | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|---|-------|--------|--|

**LIGHT 2 - MODE 12 CCT+HSI 8 Bit - 6 CH**

DMX Channel 7 - 12, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 12 CCT+HSI 8 Bit - 6 CH**

DMX Channel 13 - 18, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 12 CCT+HSI 8 Bit - 6 CH**

DMX Channel 19 - 24, the value and function is same as LIGHT 1

**LIGHT 5 - MODE 12 CCT+HSI 8 Bit - 6 CH**

DMX Channel 25 - 30, the value and function is same as LIGHT 1

**LIGHT 6 - MODE 12 CCT+HSI 8 Bit - 6 CH**

DMX Channel 31 - 36, the value and function is same as LIGHT 1

**LIGHT 7 - MODE 12 CCT+HSI 8 Bit - 6 CH**

DMX Channel 37 - 42, the value and function is same as LIGHT 1

**LIGHT 8 - MODE 12 CCT+HSI 8 Bit - 6 CH**

DMX Channel 43 - 48, the value and function is same as LIGHT 1

**LIGHT 9 - MODE 12 CCT+HSI 8 Bit - 6 CH**

DMX Channel 49 - 54, the value and function is same as LIGHT 1

**LIGHT 10 - MODE 12 CCT+HSI 8 Bit - 6 CH**

DMX Channel 55 - 60, the value and function is same as LIGHT 1

**LIGHT 11 - MODE 12 CCT+HSI 8 Bit - 6 CH**

DMX Channel 61 - 66, the value and function is same as LIGHT 1

**LIGHT 12 - MODE 12 CCT+HSI 8 Bit - 6 CH**

DMX Channel 67 - 72, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 13 CCT+HSI 16 Bit - 12 CH**

| DMX Channel | DMX Value   | Range              | Function   |
|-------------|-------------|--------------------|--|
| 1           | 0-65535     | 0-100%             | <b>Dimmer</b><br>Closed – Open                           |
| 2           |             |                    |  |
| 3           | 0-65535     | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open                |
| 4           |             |                    |  |
| 5           | 0-5000      | 0%                 | <b>Green / Magenta</b>                                   |
|             | 5001-10000  | Full Magenta(100%) |  |
|             | 10001-29999 | Magenta(99%-1%)    |  |
| 6           | 30000-40000 | 0%                 |  |
|             | 40001-59999 | Green(1%-99%)      |  |
|             | 60000-65535 | Green(100%)        |  |
| 7           | 0-65535     | 0-100%             | <b>Crossfade</b><br>0 full CCT, 65535 full RGBWW, smooth |
| 8           |             |                    |  |
| 9           | 0-65535     | 0-360              | <b>HUE</b><br>Formular: HUE = DMX_value *0.005493        |
| 10          |             |                    |  |
| 11          | 0-65535     | 0-100%             | <b>Saturation</b><br>Closed - Open                       |
| 12          |             |                    |  |

**LIGHT 2 - MODE 13 CCT+HSI 16 Bit - 12 CH**

DMX Channel 13 - 24, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 13 CCT+HSI 16 Bit - 12 CH**

DMX Channel 25 - 36, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 13 CCT+HSI 16 Bit - 12 CH**

DMX Channel 37 - 48, the value and function is same as LIGHT 1

**LIGHT 5 - MODE 13 CCT+HSI 16 Bit - 12 CH**

DMX Channel 49 - 60, the value and function is same as LIGHT 1

**LIGHT 6 - MODE 13 CCT+HSI 16 Bit - 12 CH**

DMX Channel 61 - 72, the value and function is same as LIGHT 1

**LIGHT 7 - MODE 13 CCT+HSI 16 Bit - 12 CH**

DMX Channel 73 - 84, the value and function is same as LIGHT 1

**LIGHT 8 - MODE 13 CCT+HSI 16 Bit - 12 CH**

DMX Channel 85 - 96, the value and function is same as LIGHT 1

**LIGHT 9 - MODE 13 CCT+HSI 16 Bit - 12 CH**

DMX Channel 97 - 108, the value and function is same as LIGHT 1

**LIGHT 10 - MODE 13 CCT+HSI 16 Bit - 12 CH**

DMX Channel 109 - 120, the value and function is same as LIGHT 1

**LIGHT 11 - MODE 13 CCT+HSI 16 Bit - 12 CH**

DMX Channel 121 - 132, the value and function is same as LIGHT 1

**LIGHT 12 - MODE 13 CCT+HSI 16 Bit - 12 CH**

DMX Channel 133 - 144, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 14 CCT+XY 8 Bit - 6 CH**

| DMX Channel | DMX Value | Range              | Function   |
|-------------|-----------|--------------------|--|
| 1           | 0-51      | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392   |
|             | 51-102    | 20-40%             |  |
|             | 102-153   | 40-60%             |  |
|             | 153-204   | 60-80%             |  |
|             | 204-255   | 80-100%            |  |
| 2           | 0-255     | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+DMX_value *28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
| 3           | 0-20      | 0%                 | <b>Green / Magenta</b>   |
|             | 21-30     | Full Magenta(100%) |  |
|             | 31-129    | Magenta(99%-1%)    |  |
|             | 130-140   | 0%                 |  |
|             | 141-240   | Green(1%-99%)      |  |
|             | 241-255   | Green(100%)        |  |
| 4           | 0-255     | 0-100%             | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW, smooth fade  |
| 5           | 0-255     | X*255              | <b>X Coordinate</b><br>Formular: X = DMX_value /255  |
| 6           | 0-255     | Y*255              | <b>Y Coordinate</b><br>Formular: Y = DMX_value /255  |

**LIGHT 2 - MODE 14 CCT+XY 8 Bit - 6 CH**

DMX Channel 7 - 12, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 14 CCT+XY 8 Bit - 6 CH**

DMX Channel 13 - 18, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 14 CCT+XY 8 Bit - 6 CH**

DMX Channel 19 - 24, the value and function is same as LIGHT 1

**LIGHT 5 - MODE 14 CCT+XY 8 Bit - 6 CH**

DMX Channel 25 - 30, the value and function is same as LIGHT 1

**LIGHT 6 - MODE 14 CCT+XY 8 Bit - 6 CH**

DMX Channel 31 - 36, the value and function is same as LIGHT 1

**LIGHT 7 - MODE 14 CCT+XY 8 Bit - 6 CH**

DMX Channel 37 - 42, the value and function is same as LIGHT 1

**LIGHT 8 - MODE 14 CCT+XY 8 Bit - 6 CH**

DMX Channel 43 - 48, the value and function is same as LIGHT 1

**LIGHT 9 - MODE 14 CCT+XY 8 Bit - 6 CH**

DMX Channel 49 - 54, the value and function is same as LIGHT 1

**LIGHT 10 - MODE 14 CCT+XY 8 Bit - 6 CH**

DMX Channel 55 - 60, the value and function is same as LIGHT 1

**LIGHT 11 - MODE 14 CCT+XY 8 Bit - 6 CH**

DMX Channel 61 - 66, the value and function is same as LIGHT 1

**LIGHT 12 - MODE 14 CCT+XY 8 Bit - 6 CH**

DMX Channel 67 - 72, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 15 CCT+XY 16 Bit - 12 CH**

| DMX Channel | DMX Value   | Range       | Function   |
|-------------|-------------|-------------|--|
| 1           | 0-65535     | 0-100%      | <b>Dimmer</b><br>Closed - Open                           |
| 2           |             |             |  |
| 3           | 0-65535     | 2700-10000K | <b>Color Temperature</b><br>Closed - Open                |
| 4           |             |             |  |
| 5           | 0-5000      | 0-100%      | <b>Green / Magenta</b>                                   |
|             | 5001-10000  | 0-100%      |  |
|             | 10001-29999 | 0-100%      |  |
| 6           | 30000-40000 | 0%          |  |
|             | 40001-59999 | 0-100%      |  |
|             | 60000-65535 | 0-100%      |  |
| 7           | 0-65535     | 0-100%      | <b>Crossfade</b><br>0 full CCT, 65535 full RGBWW, smooth |
| 8           |             |             |  |
| 9           | 0-65535     | X*65535     | <b>X Coordinate</b><br>Formular: X = DMX value /65535    |
| 10          |             |             |  |
| 11          | 0-65535     | Y*65535     | <b>Y Coordinate</b><br>Formular: Y = DMX value /65535    |
| 12          |             |             |  |

**LIGHT 2 - MODE 15 CCT+XY 16 Bit - 12 CH**

DMX Channel 13 - 24, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 15 CCT+XY 16 Bit - 12 CH**

DMX Channel 25 - 36, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 15 CCT+XY 16 Bit - 12 CH**

DMX Channel 37 - 48, the value and function is same as LIGHT 1

**LIGHT 5 - MODE 15 CCT+XY 16 Bit - 12 CH**

DMX Channel 49 - 60, the value and function is same as LIGHT 1

**LIGHT 6 - MODE 15 CCT+XY 16 Bit - 12 CH**

DMX Channel 61 - 72, the value and function is same as LIGHT 1

**LIGHT 7 - MODE 15 CCT+XY 16 Bit - 12 CH**

DMX Channel 73 - 84, the value and function is same as LIGHT 1

**LIGHT 8 - MODE 15 CCT+XY 16 Bit - 12 CH**

DMX Channel 85 - 96, the value and function is same as LIGHT 1

**LIGHT 9 - MODE 15 CCT+XY 16 Bit - 12 CH**

DMX Channel 97 - 108, the value and function is same as LIGHT 1

**LIGHT 10 - MODE 15 CCT+XY 16 Bit - 12 CH**

DMX Channel 109 - 120, the value and function is same as LIGHT 1

**LIGHT 11 - MODE 15 CCT+XY 16 Bit - 12 CH**

DMX Channel 121 - 132, the value and function is same as LIGHT 1

**LIGHT 12 - MODE 15 CCT+XY 16 Bit - 12 CH**

DMX Channel 133 - 144, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 16 CCT+GEL 8 Bit - 7 CH**

| DMX Channel | DMX Value | Range              | Function   |
|-------------|-----------|--------------------|--|
| 1           | 0-51      | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392   |
|             | 51-102    | 20-40%             |  |
|             | 102-153   | 40-60%             |  |
|             | 153-204   | 60-80%             |  |
|             | 204-255   | 80-100%            |  |
| 2           | 0-255     | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+DMX_value *28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
| 3           | 0-20      | 0%                 | <b>Green / Magenta</b>   |
|             | 21-30     | Full Magenta(100%) |  |
|             | 31-129    | Magenta(99%-1%)    |  |
|             | 130-140   | 0%                 |  |
|             | 141-240   | Green(1%-99%)      |  |
|             | 241-255   | Green(100%)        |  |
| 4           | 0-255     | 0-100%             | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW, smooth fade  |
| 5           | 0-127     | 3200K              | <b>3200K</b>   |
|             | 128-255   | 5600K              | <b>5600K</b>   |
| 6           | 0-127     | Group I            | <b>Select Group I</b>  |
|             | 128-255   | Group II           | <b>Select Group II</b>   |
| 7           | 0-121     | 1-122              | <b>GEL Filter Number in Group I</b>  |
|             | 0-190     | 123-313            | <b>GEL Filter Number in Group II</b>   |

**LIGHT 2 - MODE 16 CCT+GEL 8 Bit - 7 CH**

DMX Channel 8 - 14, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 16 CCT+GEL 8 Bit - 7 CH**

DMX Channel 15 - 21, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 16 CCT+GEL 8 Bit - 7 CH**

DMX Channel 22 - 28, the value and function is same as LIGHT 1

**LIGHT 5 - MODE 16 CCT+GEL 8 Bit - 7 CH**

DMX Channel 29 - 35, the value and function is same as LIGHT 1

**LIGHT 6 - MODE 16 CCT+GEL 8 Bit - 7 CH**

DMX Channel 36 - 42, the value and function is same as LIGHT 1

**LIGHT 7 - MODE 16 CCT+GEL 8 Bit - 7 CH**

DMX Channel 43 - 49, the value and function is same as LIGHT 1

**LIGHT 8 - MODE 16 CCT+GEL 8 Bit - 7 CH**

DMX Channel 50 - 56, the value and function is same as LIGHT 1

**LIGHT 9 - MODE 16 CCT+GEL 8 Bit - 7 CH**

DMX Channel 57 - 63, the value and function is same as LIGHT 1



**LIGHT 10 - MODE 16 CCT+GEL 8 Bit - 7 CH**

DMX Channel 64 - 70, the value and function is same as LIGHT 1

**LIGHT 11 - MODE 16 CCT+GEL 8 Bit - 7 CH**

DMX Channel 71 - 77, the value and function is same as LIGHT 1

**LIGHT 12 - MODE 16 CCT+GEL 8 Bit - 7 CH**

DMX Channel 78 - 84, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 17 CCT+GEL 16 Bit - 11 CH**

| DMX Channel | DMX Value   | Range              | Function   |
|-------------|-------------|--------------------|--|
| 1           | 0-65535     | 0-100%             | <b>Dimmer</b><br>Closed - Open                           |
| 2           |             |                    |  |
| 3           | 0-65535     | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open                |
| 4           |             |                    |  |
| 5           | 0-5000      | 0%                 | <b>Green / Magenta</b>                                   |
|             | 5001-10000  | Full Magenta(100%) |  |
|             | 10001-29999 | Magenta(99%-1%)    |  |
| 6           | 30000-40000 | 0%                 |  |
|             | 40001-59999 | Green(1%-99%)      |  |
|             | 60000-65535 | Green(100%)        |  |
| 7           | 0-65535     | 0-100%             | <b>Crossfade</b><br>0 full CCT, 65535 full RGBWW, smooth |
| 8           |             |                    |  |
| 9           | 0-127       | 3200K              | <b>3200K</b>   |
|             | 128-255     | 5600K              | <b>5600K</b>   |
| 10          | 0-127       | Group I            | <b>Select Group I</b>                                    |
|             | 128-255     | Group II           | <b>Select Group II</b>                                   |
| 11          | 0-121       | 1-122              | <b>GEL Filter Number in Group I</b>                      |
|             | 0-190       | 123-313            | <b>GEL Filter Number in Group II</b>                     |

**LIGHT 2 - MODE 17 CCT+GEL 16 Bit - 11 CH**

DMX Channel 12 - 22, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 17 CCT+GEL 16 Bit - 11 CH**

DMX Channel 23 - 33, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 17 CCT+GEL 16 Bit - 11 CH**

DMX Channel 34 - 44, the value and function is same as LIGHT 1

**LIGHT 5 - MODE 17 CCT+GEL 16 Bit - 11 CH**

DMX Channel 45 - 55, the value and function is same as LIGHT 1

**LIGHT 6 - MODE 17 CCT+GEL 16 Bit - 11 CH**

DMX Channel 56 - 66, the value and function is same as LIGHT 1

**LIGHT 7 - MODE 17 CCT+GEL 16 Bit - 11 CH**

DMX Channel 67 - 77, the value and function is same as LIGHT 1

**LIGHT 8 - MODE 17 CCT+GEL 16 Bit - 11 CH**

DMX Channel 78 - 88, the value and function is same as LIGHT 1

**LIGHT 9 - MODE 17 CCT+GEL 16 Bit - 11 CH**

DMX Channel 89 - 99, the value and function is same as LIGHT 1

**LIGHT 10 - MODE 17 CCT+GEL 16 Bit - 11 CH**

DMX Channel 100 - 110, the value and function is same as LIGHT 1

**LIGHT 11 - MODE 17 CCT+GEL 16 Bit - 11 CH**

DMX Channel 111 - 121, the value and function is same as LIGHT 1

**LIGHT 12 - MODE 17 CCT+GEL 16 Bit - 11 CH**

DMX Channel 122 - 132, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 18 RGBWW+HSI 8 Bit - 9 CH**

| DMX Channel | DMX Value                                       | Range  | Function   |
|-------------|---|--|--|
| 1           | 0-51<br>51-102<br>102-153<br>153-204<br>204-255 | 0-20%<br>20-40%<br>40-60%<br>60-80%<br>80-100% | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392     |
| 2           | 0-255   | 0-100%   | <b>Red</b><br>Formular: per = DMX_value *0.392                         |
| 3           | 0-255   | 0-100%   | <b>Green</b><br>Formular: per = DMX_value *0.392                       |
| 4           | 0-255   | 0-100%   | <b>Blue</b><br>Formular: per = DMX_value *0.392                        |
| 5           | 0-255   | 0-100%   | <b>Warm White</b><br>Formular: per = DMX_value *0.392                  |
| 6           | 0-255   | 0-100%   | <b>Cool White</b><br>Formular: per = DMX_value *0.392                  |
| 7           | 0-255   | 0-100%   | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW, smooth fade            |
| 8           | 0-255   | 0-360  | <b>HUE</b><br>Formular: HUE = DMX_value *1.4118                        |
| 9           | 0-255   | 0-100%   | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |

**LIGHT 2 - MODE 18 RGBWW+HSI 8 Bit - 9 CH**

DMX Channel 10 - 18, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 18 RGBWW+HSI 8 Bit - 9 CH**

DMX Channel 19 - 27, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 18 RGBWW+HSI 8 Bit - 9 CH**

DMX Channel 28 - 36, the value and function is same as LIGHT 1

**LIGHT 5 - MODE 18 RGBWW+HSI 8 Bit - 9 CH**

DMX Channel 37 - 45, the value and function is same as LIGHT 1

**LIGHT 6 - MODE 18 RGBWW+HSI 8 Bit - 9 CH**

DMX Channel 46 -54, the value and function is same as LIGHT 1

**LIGHT 7 - MODE 18 RGBWW+HSI 8 Bit - 9 CH**

DMX Channel 55 - 63, the value and function is same as LIGHT 1

**LIGHT 8 - MODE 18 RGBWW+HSI 8 Bit - 9 CH**

DMX Channel 64 - 72, the value and function is same as LIGHT 1

**LIGHT 9 - MODE 18 RGBWW+HSI 8 Bit - 9 CH**

DMX Channel 73 - 81, the value and function is same as LIGHT 1

**LIGHT 10 - MODE 18 RGBWW+HSI 8 Bit - 9 CH**

DMX Channel 82 - 90, the value and function is same as LIGHT 1

**LIGHT 11 - MODE 18 RGBWW+HSI 8 Bit - 9 CH**

DMX Channel 91 - 99, the value and function is same as LIGHT 1

**LIGHT 12 - MODE 18 RGBWW+HSI 8 Bit - 9 CH**

DMX Channel 100 - 108, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 19 RGBWW+HSI 16 Bit - 18 CH**

| DMX Channel | DMX Value | Range  | Function                          |
|-------------|-----------|--------|-----------------------------------|
| 1           | 0-65535   | 0-100% | <b>Dimmer</b>                     |
| 2           |           |        | Closed - Open                     |
| 3           | 0-65535   | 0-100% | <b>Red</b>                        |
| 4           |           |        | Formular: per = DMX_value /655.35 |

|    |         |        |                                      |
|----|---------|--------|--------------------------------------|
| 5  | 0-65535 | 0-100% | <b>Green</b>                         |
| 6  |         |        | Formular: per = DMX_value /655.35    |
| 7  | 0-65535 | 0-100% | <b>Blue</b>                          |
| 8  |         |        | Formular: per = DMX_value /655.35    |
| 9  | 0-65535 | 0-100% | <b>Warm White</b>                    |
| 10 |         |        | Formular: per = DMX_value /655.35    |
| 11 | 0-65535 | 0-100% | <b>Cool White</b>                    |
| 12 |         |        | Formular: per = DMX_value /655.35    |
| 13 | 0-65535 | 0-100% | <b>Crossfade</b>                     |
| 14 |         |        | 0 full CCT, 65535 full RGBWW, smooth |
| 15 | 0-65535 | 0-360  | <b>Hue</b>                           |
| 16 |         |        | Formular: per = DMX_value *0.005493  |
| 17 | 0-65535 | 0-100% | <b>Saturation</b>                    |
| 18 |         |        | Closed - Open                        |

**LIGHT 2 - MODE 19 RGBWW+HSI 16 Bit - 18 CH**

DMX Channel 19 - 36, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 19 RGBWW+HSI 16 Bit - 18 CH**

DMX Channel 37 - 54, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 19 RGBWW+HSI 16 Bit - 18 CH**

DMX Channel 55 - 72, the value and function is same as LIGHT 1

**LIGHT 5 - MODE 19 RGBWW+HSI 16 Bit - 18 CH**

DMX Channel 73 - 90, the value and function is same as LIGHT 1

**LIGHT 6 - MODE 19 RGBWW+HSI 16 Bit - 18 CH**

DMX Channel 91 - 108, the value and function is same as LIGHT 1

**LIGHT 7 - MODE 19 RGBWW+HSI 16 Bit - 18 CH**

DMX Channel 109 - 126, the value and function is same as LIGHT 1

**LIGHT 8 - MODE 19 RGBWW+HSI 16 Bit - 18 CH**

DMX Channel 127 - 144, the value and function is same as LIGHT 1

**LIGHT 9 - MODE 19 RGBWW+HSI 16 Bit - 18 CH**

DMX Channel 145 - 162, the value and function is same as LIGHT 1

**LIGHT 10 - MODE 19 RGBWW+HSI 16 Bit - 18 CH**

DMX Channel 163 - 180, the value and function is same as LIGHT 1

**LIGHT 11 - MODE 19 RGBWW+HSI 16 Bit - 18 CH**

DMX Channel 181 - 198, the value and function is same as LIGHT 1

**LIGHT 12 - MODE 19 RGBWW+HSI 16 Bit - 18 CH**

DMX Channel 199 - 216, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 20 RGBWW+XY 8 Bit - 9 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |
| 2           | 0-255     | 0-100%  | <b>Red</b><br>Formular: per = DMX_value *0.392                     |
| 3           | 0-255     | 0-100%  | <b>Green</b><br>Formular: per = DMX_value *0.392                   |
| 4           | 0-255     | 0-100%  | <b>Blue</b><br>Formular: per = DMX_value *0.392                    |
| 5           | 0-255     | 0-100%  | <b>Warm White</b><br>Formular: per = DMX_value *0.392              |
| 6           | 0-255     | 0-100%  | <b>Cool White</b><br>Formular: per = DMX_value *0.392              |

|   |       |        |   |
|---|-------|--------|---|
| 7 | 0-255 | 0-100% | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW, smooth fade |
| 8 | 0-255 | X*255  | <b>X Coordinate</b><br>Formular: X = DMX_value /255         |
| 9 | 0-255 | Y*255  | <b>Y Coordinate</b><br>Formular: Y = DMX_value /255         |

**LIGHT 2 - MODE 20 RGBWW+XY 8 Bit - 9 CH**

DMX Channel 10 - 18, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 20 RGBWW+XY 8 Bit - 9 CH**

DMX Channel 19 - 27, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 20 RGBWW+XY 8 Bit - 9 CH**

DMX Channel 28 - 36, the value and function is same as LIGHT 1

**LIGHT 5 - MODE 20 RGBWW+XY 8 Bit - 9 CH**

DMX Channel 37 - 45, the value and function is same as LIGHT 1

**LIGHT 6 - MODE 20 RGBWW+XY 8 Bit - 9 CH**

DMX Channel 46 -54, the value and function is same as LIGHT 1

**LIGHT 7 - MODE 20 RGBWW+XY 8 Bit - 9 CH**

DMX Channel 55 - 63, the value and function is same as LIGHT 1

**LIGHT 8 - MODE 20 RGBWW+XY 8 Bit - 9 CH**

DMX Channel 64 - 72, the value and function is same as LIGHT 1

**LIGHT 9 - MODE 20 RGBWW+XY 8 Bit - 9 CH**

DMX Channel 73 - 81, the value and function is same as LIGHT 1

**LIGHT 10 - MODE 20 RGBWW+XY 8 Bit - 9 CH**

DMX Channel 82 - 90, the value and function is same as LIGHT 1

**LIGHT 11 - MODE 20 RGBWW+XY 8 Bit - 9 CH**

DMX Channel 91 - 99, the value and function is same as LIGHT 1

**LIGHT 12 - MODE 20 RGBWW+XY 8 Bit - 9 CH**

DMX Channel 100 - 108, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 21 RGBWW+XY 16 Bit - 18 CH**

| DMX Channel | DMX Value | Range   | Function                             |
|-------------|-----------|---------|--------------------------------------|
| 1           | 0-65535   | 0-100%  | <b>Dimmer</b>                        |
| 2           |           |         | Closed - Open                        |
| 3           | 0-65535   | 0-100%  | <b>Red</b>                           |
| 4           |           |         | Formular: per = DMX_value /655.35    |
| 5           | 0-65535   | 0-100%  | <b>Green</b>                         |
| 6           |           |         | Formular: per = DMX_value /655.35    |
| 7           | 0-65535   | 0-100%  | <b>Blue</b>                          |
| 8           |           |         | Formular: per = DMX_value /655.35    |
| 9           | 0-65535   | 0-100%  | <b>Warm</b>                          |
| 10          |           |         | Formular: per = DMX_value /655.35    |
| 11          | 0-65535   | 0-100%  | <b>Cool White</b>                    |
| 12          |           |         | Formular: per = DMX_value /655.35    |
| 13          | 0-65535   | 0-100%  | <b>Crossfade</b>                     |
| 14          |           |         | 0 full CCT, 65535 full RGBWW, smooth |
| 15          | 0-65535   | X*65535 | <b>X Coordinate</b>                  |
| 16          |           |         | Formular: X = DMX_value /65535       |
| 17          | 0-65535   | Y*65535 | <b>Y Coordinate</b>                  |
| 18          |           |         | Formular: Y = DMX_value /655.35      |

**LIGHT 2 - MODE 21 RGBWW+XY 16 Bit - 18 CH**

DMX Channel 19 - 36, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 21 RGBWW+XY 16 Bit - 18 CH**

DMX Channel 37 - 54, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 21 RGBWW+XY 16 Bit - 18 CH**

DMX Channel 55 - 72, the value and function is same as LIGHT 1

**LIGHT 5 - MODE 21 RGBWW+XY 16 Bit - 18 CH**

DMX Channel 73 - 90, the value and function is same as LIGHT 1

**LIGHT 6 - MODE 21 RGBWW+XY 16 Bit - 18 CH**

DMX Channel 91 - 108, the value and function is same as LIGHT 1

**LIGHT 7 - MODE 21 RGBWW+XY 16 Bit - 18 CH**

DMX Channel 109 - 126, the value and function is same as LIGHT 1

**LIGHT 8 - MODE 21 RGBWW+XY 16 Bit - 18 CH**

DMX Channel 127 - 144, the value and function is same as LIGHT 1

**LIGHT 9 - MODE 21 RGBWW+XY 16 Bit - 18 CH**

DMX Channel 145 - 162, the value and function is same as LIGHT 1

**LIGHT 10 - MODE 21RGBWW+XY 16 Bit - 18 CH**

DMX Channel 163 - 180, the value and function is same as LIGHT 1

**LIGHT 11 - MODE 21RGBWW+XY 16 Bit - 18 CH**

DMX Channel 181 - 198, the value and function is same as LIGHT 1

**LIGHT 12 - MODE 21RGBWW+XY 16 Bit - 18 CH**

DMX Channel 199 - 216, the value and function is same as LIGHT 1

**LIGHT 2 - MODE 22 HSI+XY 8 Bit - 6 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392     |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |
| 2           | 0-255     | 0-360   | <b>Hue</b><br>Closed - Open<br>Formular: HUE = DMX_value *1.4118       |
| 3           | 0-255     | 0-100%  | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
| 4           | 0-255     | 0-100%  | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW, smooth fade            |
| 5           | 0-255     | X*255   | <b>X Coordinate</b><br>Formular: X = DMX_value /255                    |
| 6           | 0-255     | Y*255   | <b>Y Coordinate</b><br>Formular: Y = DMX_value /255                    |

**LIGHT 2 - MODE 22 HSI+XY 8 Bit - 6 CH**

DMX Channel 7 - 12, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 22 HSI+XY 8 Bit - 6 CH**

DMX Channel 13 - 18, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 22 HSI+XY 8 Bit - 6 CH**

DMX Channel 19 - 24, the value and function is same as LIGHT 1

**LIGHT 5 - MODE 22 HSI+XY 8 Bit - 6 CH**

DMX Channel 25 - 30, the value and function is same as LIGHT 1

**LIGHT 6 - MODE 22 HSI+XY 8 Bit - 6 CH**

DMX Channel 31 - 36, the value and function is same as LIGHT 1

**LIGHT 7 - MODE 22 HSI+XY 8 Bit - 6 CH**

DMX Channel 37 - 42, the value and function is same as LIGHT 1

**LIGHT 8 - MODE 22 HSI+XY 8 Bit - 6 CH**

DMX Channel 43 - 48, the value and function is same as LIGHT 1

**LIGHT 9 - MODE 22 HSI+XY 8 Bit - 6 CH**

DMX Channel 49 - 54, the value and function is same as LIGHT 1

**LIGHT 10 - MODE 22 HSI+XY 8 Bit - 6 CH**

DMX Channel 55 - 60, the value and function is same as LIGHT 1

**LIGHT 11 - MODE 22 HSI+XY 8 Bit - 6 CH**

DMX Channel 61 - 66, the value and function is same as LIGHT 1

**LIGHT 12 - MODE 22 HSI+XY 8 Bit - 6 CH**

DMX Channel 67 - 72, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 23 HSI+XY 16 Bit - 12 CH**

| DMX Channel | DMX Value | Range   | Function                             |
|-------------|-----------|---------|--------------------------------------|
| 1           | 0-65535   | 0-100%  | <b>Dimmer</b>                        |
| 2           |           |         | Closed - Open                        |
| 3           | 0-65535   | 0-360   | <b>Hue</b>                           |
| 4           |           |         | Closed - Open                        |
| 5           | 0-65535   | 0-100%  | <b>Saturation</b>                    |
| 6           |           |         | Closed - Open                        |
| 7           | 0-65535   | 0-100%  | <b>Crossfade</b>                     |
| 8           |           |         | 0 full CCT, 65535 full RGBWW, smooth |
| 9           | 0-65535   | X*65535 | <b>X Coordinate</b>                  |
| 10          |           |         | Formular: X = DMX value /65535       |
| 11          | 0-65535   | Y*65535 | <b>Y Coordinate</b>                  |
| 12          |           |         | Formular: Y = DMX value /65535       |

**LIGHT 2 - MODE 23 HSI+XY 16 Bit - 12 CH**

DMX Channel 13 - 24, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 23 HSI+XY 16 Bit - 12 CH**

DMX Channel 25 - 36, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 23 HSI+XY 16 Bit - 12 CH**

DMX Channel 37 - 48, the value and function is same as LIGHT 1

**LIGHT 5 - MODE 23 HSI+XY 16 Bit - 12 CH**

DMX Channel 49 - 60, the value and function is same as LIGHT 1

**LIGHT 6 - MODE 23 HSI+XY 16 Bit - 12 CH**

DMX Channel 61 - 72, the value and function is same as LIGHT 1

**LIGHT 7 - MODE 23 HSI+XY 16 Bit - 12 CH**

DMX Channel 73 - 84, the value and function is same as LIGHT 1

**LIGHT 8 - MODE 23 HSI+XY 16 Bit - 12 CH**

DMX Channel 85 - 96, the value and function is same as LIGHT 1

**LIGHT 9 - MODE 23 HSI+XY 16 Bit - 12 CH**

DMX Channel 97 - 108, the value and function is same as LIGHT 1

**LIGHT 10 - MODE 23 HSI+XY 16 Bit - 12 CH**

DMX Channel 109 - 120, the value and function is same as LIGHT 1

**LIGHT 11 - MODE 23 HSI+XY 16 Bit - 12 CH**

DMX Channel 121 - 132, the value and function is same as LIGHT 1

**LIGHT 12 - MODE 23 HSI+XY 16 Bit - 12 CH**

DMX Channel 133 - 144, the value and function is same as LIGHT 1

| <b>LIGHT 1 - MODE 24 EFFECT - CCT Chase 7 CH</b> |                  |                                  |  |
|--|------------------|----------------------------------|--|
| <b>DMX Channel</b>                               | <b>DMX Value</b> | <b>Range</b>                     | <b>Function</b>  |
| 1  | 0-51             | 0-20%                            | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392         |
|  | 51-102           | 20-40%                           |  |
|  | 102-153          | 40-60%                           |  |
|  | 153-204          | 60-80%                           |  |
|  | 204-255          | 80-100%                          |  |
| 2  | 000-014          |                                  | <b>CCT Chase</b>   |
| 3  | 0-255            | 2700-10000K                      | <b>CCT Start</b><br>Formular: Color Temperature = 2700 + DMX_value *28.627 |
| 4  | 0-255            | 2700-10000K                      | <b>CCT Stop</b><br>Formular: Color Temperature = 2700 + DMX_value *28.627  |
| 5  | 0-20             | 0%                               | <b>Green / Magenta</b>   |
|  | 21-30            | Full Magenta(100%)               |  |
|  | 31-129           | Magenta(99%-1%)                  |  |
|  | 130-140          | 0%                               |  |
|  | 141-240          | Green(1%-99%)                    |  |
|  | 241-255          | Green(100%)                      |  |
| 6  | 10-19            | Loop time increase<br>60 seconds | <b>Loop time (max 600 second)</b>  |
|  | 20-29            | 120 seconds                      |  |
|  | 30-39            | 180 seconds                      |  |
|  | 40-49            | 240 seconds                      |  |
|  | 50-59            | 300 seconds                      |  |
|  | 60-69            | 360 seconds                      |  |
|  | 70-79            | 420 seconds                      |  |
|  | 80-89            | 480 seconds                      |  |
|  | 90-99            | 540 seconds                      |  |
| 7  | 0-50             | 0-50 seconds                     | <b>Second/Loop</b>   |
|  | 50-100           | 50-100 seconds                   |  |
|  | 100-150          | 100-150 seconds                  |  |
|  | 150-200          | 150-200 seconds                  |  |
|  | 200-255          | 200-255 seconds                  |  |

**LIGHT 2 - MODE 24 EFFECT - CCT Chase**

DMX Channel 8 - 14, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 24 EFFECT - CCT Chase**

DMX Channel 15 - 21, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 24 EFFECT - CCT Chase**

DMX Channel 22 - 28, the value and function is same as LIGHT 1

**LIGHT 5 - MODE 24 EFFECT - CCT Chase**

DMX Channel 29 - 35, the value and function is same as LIGHT 1

**LIGHT 6 - MODE 24 EFFECT - CCT Chase**

DMX Channel 36 - 42, the value and function is same as LIGHT 1

**LIGHT 7 - MODE 24 EFFECT - CCT Chase**

DMX Channel 43 - 49, the value and function is same as LIGHT 1

**LIGHT 8 - MODE 24 EFFECT - CCT Chase**

DMX Channel 50 - 56, the value and function is same as LIGHT 1

**LIGHT 9 - MODE 24 EFFECT - CCT Chase**

DMX Channel 57 - 63, the value and function is same as LIGHT 1

**LIGHT 10 - MODE 24 EFFECT - CCT Chase**

DMX Channel 64 - 70, the value and function is same as LIGHT 1

**LIGHT 11 - MODE 24 EFFECT - CCT Chase**

DMX Channel 71 - 77, the value and function is same as LIGHT 1

**LIGHT 12 - MODE 24 EFFECT - CCT Chase**

DMX Channel 78 - 84, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 24 EFFECT - Color Chase 7 CH**

| DMX Channel | DMX Value   | Range  | Function   |
|-------------|---|--|--|
| 1           | 0-255   | 0-100%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392     |
| 2           | 015-026   |  | <b>Color Chase</b>   |
| 3           | 0-42<br>42-85<br>85-127<br>127-170<br>170-212<br>212-255                      | 0°-60°<br>60°-120°<br>120°-180°<br>180°-240°<br>240°-300°<br>300°-360°   | <b>HUE Start</b><br>Formular: HUE = DMX_value *1.4118                  |
| 4           | 0-42<br>42-85<br>85-127<br>127-170<br>170-212<br>212-255                      | 0°-60°<br>60°-120°<br>120°-180°<br>180°-240°<br>240°-300°<br>300°-360°   | <b>HUE Stop</b><br>Formular: HUE = DMX_value *1.4118                   |
| 5           | 0-255   | 0%   | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
| 6           | 10-19<br>20-29<br>30-39<br>40-49<br>50-59<br>60-69<br>70-79<br>80-89<br>90-99 | Loop time increase<br>60 seconds<br>120 seconds<br>180 seconds<br>240 seconds<br>300 seconds<br>360 seconds<br>420 seconds<br>480 seconds<br>540 seconds | <b>Loop time (max 600 second)</b>                                      |
| 7           | 0-50<br>50-100<br>100-150<br>150-200<br>200-255                               | 0-50 seconds<br>50-100 seconds<br>100-150 seconds<br>150-200 seconds<br>200-255 seconds  | <b>Second/Loop</b>   |

**LIGHT 2 - MODE 24 EFFECT - Color Chase**

DMX Channel 8 - 14, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 24 EFFECT - Color Chase**

DMX Channel 15 - 21, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 24 EFFECT - Color Chase**

DMX Channel 22 - 28, the value and function is same as LIGHT 1

**LIGHT 5 - MODE 24 EFFECT - Color Chase**

DMX Channel 29 - 35, the value and function is same as LIGHT 1

**LIGHT 6 - MODE 24 EFFECT - Color Chase**

DMX Channel 36 - 42, the value and function is same as LIGHT 1

**LIGHT 7 - MODE 24 EFFECT - Color Chase**



DMX Channel 43 - 49, the value and function is same as LIGHT 1

**LIGHT 8 - MODE 24 EFFECT - Color Chase**

DMX Channel 50 - 56, the value and function is same as LIGHT 1

**LIGHT 9 - MODE 24 EFFECT - Color Chase**

DMX Channel 57 - 63, the value and function is same as LIGHT 1

**LIGHT 10 - MODE 24 EFFECT - Color Chase**

DMX Channel 64 - 70, the value and function is same as LIGHT 1

**LIGHT 11 - MODE 24 EFFECT - Color Chase**

DMX Channel 71 - 77, the value and function is same as LIGHT 1

**LIGHT 12 - MODE 24 EFFECT - Color Chase**

DMX Channel 78 - 84, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 24 EFFECT - Fireworks 7 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: $per = DMX\_value * 0.392$     |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |
| 2           | 027-039   |         | <b>Fireworks</b>   |
| 3           | 0-255     | 0-360   | <b>HUE Start</b><br>Formular: $HUE = DMX\_value * 1.4118$                  |
| 4           | 0-255     | 0-360   | <b>HUE Stop</b><br>Formular: $HUE = DMX\_value * 1.4118$                   |
| 5           | 0-255     | 0-100%  | <b>Saturation</b><br>Closed - Open<br>Formular: $per = DMX\_value * 0.392$ |
| 6           | 0-255     | 0-60    | <b>Explosion/min</b><br>Formular: $speed = dm\_x\_value / 4.25$            |
| 7           | 0-255     | 5-95    | <b>Duration</b><br>Formular: $duty = 5 + DMX\_value * 0.353$               |

**LIGHT 2 - MODE 24 EFFECT - Fireworks**

DMX Channel 8 - 14, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 24 EFFECT - Fireworks**

DMX Channel 15 - 21, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 24 EFFECT - Fireworks**

DMX Channel 22 - 28, the value and function is same as LIGHT 1

**LIGHT 5 - MODE 24 EFFECT - Fireworks**

DMX Channel 29 - 35, the value and function is same as LIGHT 1

**LIGHT 6 - MODE 24 EFFECT - Fireworks**

DMX Channel 36 - 42, the value and function is same as LIGHT 1

**LIGHT 7 - MODE 24 EFFECT - Fireworks**

DMX Channel 43 - 49, the value and function is same as LIGHT 1

**LIGHT 8 - MODE 24 EFFECT - Fireworks**

DMX Channel 50 - 56, the value and function is same as LIGHT 1

**LIGHT 9 - MODE 24 EFFECT - Fireworks**

DMX Channel 57 - 63, the value and function is same as LIGHT 1

**LIGHT 10 - MODE 24 EFFECT - Fireworks**

DMX Channel 64 - 70, the value and function is same as LIGHT 1

**LIGHT 11 - MODE 24 EFFECT - Fireworks**

DMX Channel 71 - 77, the value and function is same as LIGHT 1

**LIGHT 12 - MODE 24 EFFECT - Fireworks**

DMX Channel 78 - 84, the value and function is same as LIGHT 1

| LIGHT 1 - MODE 24 |           | EFFECT - Fire | 4 CH   |
|-------------------|-----------|---------------|--|
| DMX Channel       | DMX Value | Range         | Function   |
| 1                 | 0-51      | 0-20%         | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|                   | 51-102    | 20-40%        |  |
|                   | 102-153   | 40-60%        |  |
|                   | 153-204   | 60-80%        |  |
|                   | 204-255   | 80-100%       |  |
| 2                 | 040-052   |               | <b>Fire</b>  |
| 3                 | 0-255     | 0-100         | <b>Wind Speed</b><br>Formular: per = DMX_value *0.392              |
| 4                 | 0-49      | 0-49          | <b>Fire Type: Candle</b>   |
|                   | 50-99     | 50-99         | <b>Fire Type: Campfire</b>   |
|                   | 100-149   | 100-149       | <b>Fire Type: bonfire</b>  |

**LIGHT 2 - MODE 24 EFFECT - Fire**

DMX Channel 5 - 8, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 24 EFFECT - Fire**

DMX Channel 9 - 12, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 24 EFFECT - Fire**

DMX Channel 13 - 16, the value and function is same as LIGHT 1

**LIGHT 5 - MODE 24 EFFECT - Fire**

DMX Channel 17 - 20, the value and function is same as LIGHT 1

**LIGHT 6 - MODE 24 EFFECT - Fire**

DMX Channel 21 - 24, the value and function is same as LIGHT 1

**LIGHT 7 - MODE 24 EFFECT - Fire**

DMX Channel 25 - 28, the value and function is same as LIGHT 1

**LIGHT 8 - MODE 24 EFFECT - Fire**

DMX Channel 29 - 32, the value and function is same as LIGHT 1

**LIGHT 9 - MODE 24 EFFECT - Fire**

DMX Channel 33 - 36, the value and function is same as LIGHT 1

**LIGHT 10 - MODE 24 EFFECT - Fire**

DMX Channel 37 - 40, the value and function is same as LIGHT 1

**LIGHT 11 - MODE 24 EFFECT - Fire**

DMX Channel 41 - 44, the value and function is same as LIGHT 1

**LIGHT 12 - MODE 24 EFFECT - Fire**

DMX Channel 45 - 48, the value and function is same as LIGHT 1

| LIGHT 1 - MODE 24 |           | EFFECT - Explosion | 5 CH   |
|-------------------|-----------|--------------------|--|
| DMX Channel       | DMX Value | Range              | Function   |
| 1                 | 0-51      | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|                   | 51-102    | 20-40%             |  |
|                   | 102-153   | 40-60%             |  |
|                   | 153-204   | 60-80%             |  |
|                   | 204-255   | 80-100%            |  |
| 2                 | 053-065   |                    | <b>Explosion</b>   |
| 3                 | 0-255     | 0-60               | <b>Explosion/min</b><br>Formular: speed = DMX_value /4.25          |
| 4                 | 0-255     | 5-95               | <b>Duration</b><br>Formular: duty = 5 + DMX_value *0.353           |

|   |         |         |                          |
|---|---------|---------|--------------------------|
| 5 | 0-49    | 0-49    | Fire Type: Warm          |
|   | 50-99   | 50-99   | <b>Fire Type:</b> Cool   |
|   | 100-149 | 100-149 | <b>Fire Type:</b> Colors |

**LIGHT 2 - MODE 24 EFFECT - Explosion**

DMX Channel 6 - 10, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 24 EFFECT - Explosion**

DMX Channel 11 - 15, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 24 EFFECT - Explosion**

DMX Channel 15 - 20, the value and function is same as LIGHT 1

**LIGHT 5 - MODE 24 EFFECT - Explosion**

DMX Channel 21 - 25, the value and function is same as LIGHT 1

**LIGHT 6 - MODE 24 EFFECT - Explosion**

DMX Channel 26 - 30, the value and function is same as LIGHT 1

**LIGHT 7 - MODE 24 EFFECT - Explosion**

DMX Channel 31 - 35, the value and function is same as LIGHT 1

**LIGHT 8 - MODE 24 EFFECT - Explosion**

DMX Channel 36 - 40, the value and function is same as LIGHT 1

**LIGHT 9 - MODE 24 EFFECT - Explosion**

DMX Channel 41 - 45, the value and function is same as LIGHT 1

**LIGHT 10 - MODE 24 EFFECT - Explosion**

DMX Channel 46 - 50, the value and function is same as LIGHT 1

**LIGHT 11 - MODE 24 EFFECT - Explosion**

DMX Channel 51 - 55, the value and function is same as LIGHT 1

**LIGHT 12 - MODE 24 EFFECT - Explosion**

DMX Channel 56 - 60, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 24 EFFECT - Lightning**

| DMX Channel |         | DMX Value | Range              | Function   |
|-------------|---------|-----------|--------------------|--|
| 1           | 0-51    |           | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392   |
|             | 51-102  |           | 20-40%             |  |
|             | 102-153 |           | 40-60%             |  |
|             | 153-204 |           | 60-80%             |  |
|             | 204-255 |           | 80-100%            |  |
| 2           | 50-59   |           |                    | <b>Lightning</b>   |
| 3           | 0-255   |           | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+DMX_value *28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
| 4           | 0-20    |           | 0%                 | <b>Green / Magenta</b>   |
|             | 21-30   |           | Full Magenta(100%) |  |
|             | 31-129  |           | Magenta(99%-1%)    |  |
|             | 130-140 |           | 0%                 |  |
|             | 141-240 |           | Green(1%-99%)      |  |
|             | 241-255 |           | Green(100%)        |  |
| 5           | 0-255   |           | 1-60               | <b>Intervals (Second)</b><br>Formular: time = DMX_value /4.25  |

**LIGHT 2 - MODE 2 EFFECT - Lightning**

DMX Channel 6 - 10, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 2 EFFECT - Lightning**

DMX Channel 11 - 15, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 2 EFFECT - Lightning**

DMX Channel 15 - 20, the value and function is same as LIGHT 1

**LIGHT 5 - MODE 2 EFFECT - Lightning**

DMX Channel 21 - 25, the value and function is same as LIGHT 1

**LIGHT 6 - MODE 2 EFFECT - Lightning**

DMX Channel 26 - 30, the value and function is same as LIGHT 1

**LIGHT 7 - MODE 2 EFFECT - Lightning**

DMX Channel 31 - 35, the value and function is same as LIGHT 1

**LIGHT 8 - MODE 2 EFFECT - Lightning**

DMX Channel 36 - 40, the value and function is same as LIGHT 1

**LIGHT 9 - MODE 2 EFFECT - Lightning**

DMX Channel 41 - 45, the value and function is same as LIGHT 1

**LIGHT 10 - MODE 2 EFFECT - Lightning**

DMX Channel 46 - 50, the value and function is same as LIGHT 1

**LIGHT 11 - MODE 2 EFFECT - Lightning**

DMX Channel 51 - 55, the value and function is same as LIGHT 1

**LIGHT 12 - MODE 2 EFFECT - Lightning**

DMX Channel 56 - 60, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 24 EFFECT - Paparazzi 6 CH**

| DMX Channel | DMX Value   | Range              | Function  |
|-------------|-------------|--------------------|---|
| 1           | 0-51        | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value * 0.392   |
|             | 51-102      | 20-40%             |   |
|             | 102-153     | 40-60%             |   |
|             | 153-204     | 60-80%             |   |
|             | 204-255     | 80-100%            |   |
| 2           | 078-090     |                    | <b>Paparazzi</b>  |
| 3           | 0-255       | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+<br>DMX_value*28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
| 4           | 0-20        | 0%                 | <b>Green / Magenta</b>  |
|             | 21-30       | Full Magenta(100%) |   |
|             | 31-129      | Magenta(99%-1%)    |   |
|             | 130-140     | 0%                 |   |
|             | 141-240     | Green(1%-99%)      |   |
| 241-255     | Green(100%) |                    |   |
| 5           | 0-255       | 0-25Hz             | <b>Frequency</b><br>Formular: frequency = DMX_value / 10.2  |
| 6           | 0-49        | 0-49               | <b>Bulb Type: Slow</b>  |
|             | 50-99       | 50-99              | <b>Bulb Type: Medium</b>  |
|             | 100-149     | 100-149            | <b>Bulb Type: Fast</b>  |
|             | 150-199     | 150-199            | <b>Bulb Type: Modern</b>  |

**LIGHT 2 - MODE 2 EFFECT - Paparazzi**

DMX Channel 7 - 12, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 2 EFFECT - Paparazzi**

DMX Channel 13 - 18, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 2 EFFECT - Paparazzi**

DMX Channel 19 - 24, the value and function is same as LIGHT 1

**LIGHT 5 - MODE 2 EFFECT - Paparazzi**

DMX Channel 25 - 30, the value and function is same as LIGHT 1

**LIGHT 6 - MODE 2 EFFECT - Paparazzi**

DMX Channel 31 - 36, the value and function is same as LIGHT 1

**LIGHT 7 - MODE 2 EFFECT - Paparazzi**

DMX Channel 37 - 42, the value and function is same as LIGHT 1

**LIGHT 8 - MODE 2 EFFECT - Paparazzi**

DMX Channel 43 - 48, the value and function is same as LIGHT 1

**LIGHT 9 - MODE 2 EFFECT - Paparazzi**

DMX Channel 49 - 54, the value and function is same as LIGHT 1

**LIGHT 10 - MODE 2 EFFECT - Paparazzi**

DMX Channel 55 - 60, the value and function is same as LIGHT 1

**LIGHT 11 - MODE 2 EFFECT - Paparazzi**

DMX Channel 61 - 66, the value and function is same as LIGHT 1

**LIGHT 12 - MODE 2 EFFECT - Paparazzi**

DMX Channel 67 - 72, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 24 EFFECT - Pulse 5 CH**

| DMX Channel | DMX Value | Range   | Function  |
|-------------|-----------|---------|---|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value * 0.392     |
|             | 51-102    | 20-40%  |   |
|             | 102-153   | 40-60%  |   |
|             | 153-204   | 60-80%  |   |
|             | 204-255   | 80-100% |   |
| 2           | 091-103   |         | <b>Pulse</b>  |
| 3           | 0-255     | 0-360   | <b>HUE</b><br>Formular: HUE = DMX_value * 1.4118                        |
| 4           | 0-255     | 0-100%  | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value * 0.392 |
| 5           | 0-255     | 1-200   | <b>Pulses/min</b><br>Formular: frequency = 1+DMX_value / 1.281          |

**LIGHT 2 - MODE 24 EFFECT - Pulse**

DMX Channel 6 - 10, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 24 EFFECT - Pulse**

DMX Channel 11 - 15, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 24 EFFECT - Pulse**

DMX Channel 15 - 20, the value and function is same as LIGHT 1

**LIGHT 5 - MODE 24 EFFECT - Pulse**

DMX Channel 21 - 25, the value and function is same as LIGHT 1

**LIGHT 6 - MODE 24 EFFECT - Pulse**

DMX Channel 26 - 30, the value and function is same as LIGHT 1

**LIGHT 7 - MODE 24 EFFECT - Pulse**

DMX Channel 31 - 35, the value and function is same as LIGHT 1

**LIGHT 8 - MODE 24      EFFECT - Pulse**

DMX Channel 36 - 40, the value and function is same as LIGHT 1

**LIGHT 9 - MODE 24      EFFECT - Pulse**

DMX Channel 41 - 45, the value and function is same as LIGHT 1

**LIGHT 10 - MODE 24      EFFECT - Pulse**

DMX Channel 46 - 50, the value and function is same as LIGHT 1

**LIGHT 11 - MODE 24      EFFECT - Pulse**

DMX Channel 51 - 55, the value and function is same as LIGHT 1

**LIGHT 12 - MODE 24      EFFECT - Pulse**

DMX Channel 56 - 60, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 24      EFFECT - Police      6 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |
| 2           | 104-116   |         | <b>Police</b>  |
| 3           | 0-9       | 0-9     | <b>Colors:</b> Red, Blue & White                                   |
|             | 10--19    | 10--19  | <b>Colors:</b> Red & Blue  |
|             | 20--29    | 20--29  | <b>Colors:</b> Red & White   |
|             | 30--39    | 30--39  | <b>Colors:</b> Blue & White  |
|             | 40--49    | 40--49  | <b>Colors:</b> Blue  |
|             | 50--59    | 50--59  | <b>Colors:</b> Red   |
|             | 60--69    | 60--69  | <b>Colors:</b> Amber   |
| 4           | 0-49      | 0-49    | <b>Flash/cycle:</b> 1  |
|             | 50-99     | 50-99   | <b>Flash/cycle:</b> 2  |
|             | 100-149   | 100-149 | <b>Flash/cycle:</b> 3  |
|             | 150-199   | 150-199 | <b>Flash/cycle:</b> 4  |
| 5           | 0-255     | 0-100   | <b>Speed</b><br>Formular: per = DMX_value *0.392                   |
| 6           | 0-255     | 5-95    | <b>Duration</b><br>Formular: duty = 5+ DMX_value *0.353            |

**LIGHT 2 - MODE 24      EFFECT - Police**

DMX Channel 7 - 12, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 24      EFFECT - Police**

DMX Channel 13 - 18, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 24      EFFECT - Police**

DMX Channel 19 - 24, the value and function is same as LIGHT 1

**LIGHT 5 - MODE 24      EFFECT - Police**

DMX Channel 25 - 30, the value and function is same as LIGHT 1

**LIGHT 6 - MODE 24      EFFECT - Police**

DMX Channel 31 - 36, the value and function is same as LIGHT 1

**LIGHT 7 - MODE 24      EFFECT - Police**

DMX Channel 37 - 42, the value and function is same as LIGHT 1

**LIGHT 8 - MODE 24      EFFECT - Police**

DMX Channel 43 - 48, the value and function is same as LIGHT 1

**LIGHT 9 - MODE 24      EFFECT - Police**

DMX Channel 49 - 54, the value and function is same as LIGHT 1

**LIGHT 10 - MODE 24 EFFECT - Police**

DMX Channel 55 - 60, the value and function is same as LIGHT 1

**LIGHT 11 - MODE 24 EFFECT - Police**

DMX Channel 61 - 66, the value and function is same as LIGHT 1

**LIGHT 12 - MODE 24 EFFECT - Police**

DMX Channel 67 - 72, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 24 EFFECT - Strobe Color 6 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392     |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |
| 2           | 117-128   |         | <b>Strobe Color</b>  |
| 3           | 0-255     | 0-360   | <b>HUE</b><br>Formular: HUE = DMX_value *1.4118                        |
| 4           | 0-255     | 0-100   | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
| 5           | 0-255     | 0-25Hz  | <b>Frequency</b><br>Formular: Frequency = DMX_value /10.2              |
| 6           | 0-255     | 5-95    | <b>Duration</b><br>Formular: duty = 5+ DMX_value *0.353                |

**LIGHT 2 - MODE 24 EFFECT - Strobe Color**

DMX Channel 7 - 12, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 24 EFFECT - Strobe Color**

DMX Channel 13 - 18, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 24 EFFECT - Strobe Color**

DMX Channel 19 - 24, the value and function is same as LIGHT 1

**LIGHT 5 - MODE 24 EFFECT - Strobe Color**

DMX Channel 25 - 30, the value and function is same as LIGHT 1

**LIGHT 6 - MODE 24 EFFECT - Strobe Color**

DMX Channel 31 - 36, the value and function is same as LIGHT 1

**LIGHT 7 - MODE 24 EFFECT - Strobe Color**

DMX Channel 37 - 42, the value and function is same as LIGHT 1

**LIGHT 8 - MODE 24 EFFECT - Strobe Color**

DMX Channel 43 - 48, the value and function is same as LIGHT 1

**LIGHT 9 - MODE 24 EFFECT - Strobe Color**

DMX Channel 49 - 54, the value and function is same as LIGHT 1

**LIGHT 10 - MODE 24 EFFECT - Strobe Color**

DMX Channel 55 - 60, the value and function is same as LIGHT 1

**LIGHT 11 - MODE 24 EFFECT - Strobe Color**

DMX Channel 61 - 66, the value and function is same as LIGHT 1

**LIGHT 12 - MODE 24 EFFECT - Strobe Color**

DMX Channel 67 - 72, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 24 EFFECT - Strobe CCT 6 CH**

| DMX Channel | DMX Value | Range | Function |
|-------------|-----------|-------|----------|
|-------------|-----------|-------|----------|

|   |   |  |  |
|---|---|--|--|
| 1 | 0-51<br>51-102<br>102-153<br>153-204<br>204-255 | 0-20%<br>20-40%<br>40-60%<br>60-80%<br>80-100% | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392   |
| 2 | 129-141   |  | <b>Strobe CCT</b>  |
| 3 | 0-255   | 2700-10000K                                    | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+DMX_value *28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
| 4 | 0-20  | 0%   | <b>Green / Magenta</b>   |
|   | 21-30   | Full Magenta(100%)                             |  |
|   | 31-129  | Magenta(99%-1%)                                |  |
|   | 130-140   | 0%   |  |
|   | 141-240   | Green(1%-99%)                                  |  |
|   | 241-255   | Green(100%)                                    |  |
| 5 | 0-255   | 0-25Hz   | <b>Frequency</b><br>Formular: frequency = DMX_value /10.2  |
| 6 | 0-255   | 5-95   | <b>Duration</b><br>Formular: duty = 5+ DMX_value *0.353  |

**LIGHT 2 - MODE 24 EFFECT - Strobe CCT**

DMX Channel 7 - 12, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 24 EFFECT - Strobe CCT**

DMX Channel 13 - 18, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 24 EFFECT - Strobe CCT**

DMX Channel 19 - 24, the value and function is same as LIGHT 1

**LIGHT 5 - MODE 24 EFFECT - Strobe CCT**

DMX Channel 25 - 30, the value and function is same as LIGHT 1

**LIGHT 6 - MODE 24 EFFECT - Strobe CCT**

DMX Channel 31 - 36, the value and function is same as LIGHT 1

**LIGHT 7 - MODE 24 EFFECT - Strobe CCT**

DMX Channel 37 - 42, the value and function is same as LIGHT 1

**LIGHT 8 - MODE 24 EFFECT - Strobe CCT**

DMX Channel 43 - 48, the value and function is same as LIGHT 1

**LIGHT 9 - MODE 24 EFFECT - Strobe CCT**

DMX Channel 49 - 54, the value and function is same as LIGHT 1

**LIGHT 10 - MODE 24 EFFECT - Strobe CCT**

DMX Channel 55 - 60, the value and function is same as LIGHT 1

**LIGHT 11 - MODE 24 EFFECT - Strobe CCT**

DMX Channel 61 - 66, the value and function is same as LIGHT 1

**LIGHT 12 - MODE 24 EFFECT - Strobe CCT**

DMX Channel 67 - 72, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 25 Macro - 2 CH**

| DMX Channel | DMX Value | Range | Function |
|-------------|-----------|-------|----------|
|-------------|-----------|-------|----------|



|   |   |  |  |
|---|---|--|--|
| 1 | 0-51<br>51-102<br>102-153<br>153-204<br>204-255 | 0-20%<br>20-40%<br>40-60%<br>60-80%<br>80-100% | <b>Dimmer</b><br>Closed - Open<br>Formular: $per = DMX\_value * 0.392$ |
| 2 | 0-46  | 0-46   | Pls check: Appendix I Macro  |

**LIGHT 2 - MODE 25 Macro - 2 CH**

DMX Channel 3 - 4, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 25 Macro - 2 CH**

DMX Channel 5 - 6, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 25 Macro - 2 CH**

DMX Channel 7 - 8, the value and function is same as LIGHT 1

**LIGHT 5 - MODE 25 Macro - 2 CH**

DMX Channel 9 - 10, the value and function is same as LIGHT 1

**LIGHT 6 - MODE 25 Macro - 2 CH**

DMX Channel 11 - 12, the value and function is same as LIGHT 1

**LIGHT 7 - MODE 25 Macro - 2 CH**

DMX Channel 13 - 14, the value and function is same as LIGHT 1

**LIGHT 8 - MODE 25 Macro - 2 CH**

DMX Channel 15 - 16, the value and function is same as LIGHT 1

**LIGHT 9 - MODE 25 Macro - 2 CH**

DMX Channel 17 - 18, the value and function is same as LIGHT 1

**LIGHT 10 - MODE 25 Macro - 2 CH**

DMX Channel 19 - 20, the value and function is same as LIGHT 1

**LIGHT 11 - MODE 25 Macro - 2 CH**

DMX Channel 21 - 22, the value and function is same as LIGHT 1

**LIGHT 12 - MODE 25 Macro - 2 CH**

DMX Channel 23 - 24, the value and function is same as LIGHT 1

**DMX Protocol Map**  
**Suit for Luxed-P9, Luxed Pro-P9**

Appendix I Macro  
 Appendix II GEL Filter



**WALL MODE**

| MODE 1      |           | CCT 8 Bit - 3 CH   |  |
|-------------|-----------|--------------------|--|
| DMX Channel | DMX Value | Range              | Function   |
| 1           | 0-51      | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392   |
|             | 51-102    | 20-40%             |  |
|             | 102-153   | 40-60%             |  |
|             | 153-204   | 60-80%             |  |
|             | 204-255   | 80-100%            |  |
| 2           | 0-255     | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open  |
|             |           |                    | Formular:<br>Color Temperature =<br>2700+DMX_value *28.627<br><br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
| 3           | 0-20      | 0                  | <b>Green / Magenta</b>   |
|             | 21-30     | Full Magenta(100%) |  |
|             | 30-130    | Magenta(99%-1%)    |  |
|             | 130-140   | 0%                 |  |
|             | 141-240   | Green(1%-99%)      |  |
|             | 241-255   | Green(100%)        |  |

| MODE 2      |             | CCT 16 Bit - 6 CH  |                                |
|-------------|-------------|--------------------|--------------------------------|
| DMX Channel | DMX Value   | Range              | Function                       |
| 1           | 0-65535     | 0-100%             | <b>Dimmer</b><br>Closed - Open |
| 2           |             |                    |                                |
| 3           |             |                    |                                |
| 4           |             |                    |                                |
| 5           | 0-5000      | 0%                 | <b>Green / Magenta</b>         |
|             | 5001-10000  | Full Magenta(100%) |                                |
|             | 10001-29999 | Magenta(99%-1%)    |                                |
| 6           | 30000-40000 | 0%                 |                                |
|             | 40001-59999 | Green(1%-99%)      |                                |
|             | 60000-65535 | Green(100%)        |                                |

| MODE 3      |           | HSI 8 Bit - 3 CH |  |
|-------------|-----------|------------------|--|
| DMX Channel | DMX Value | Range            | Function   |
| 1           | 0-51      | 0-20%            | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|             | 51-102    | 20-40%           |  |
|             | 102-153   | 40-60%           |  |
|             | 153-204   | 60-80%           |  |
|             | 204-255   | 80-100%          |  |
| 2           | 0-255     | 0-360            | <b>Hue</b><br>Closed - Open<br>Formular: HUE = DMX_value *1.4118   |

|   |       |        |  |
|---|-------|--------|--|
| 3 | 0-255 | 0-100% | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|---|-------|--------|--|

**MODE 4 HSI 16 Bit - 6 CH**

| DMX Channel | DMX Value | Range  | Function                           |
|-------------|-----------|--------|------------------------------------|
| 1           | 0-65535   | 0-100% | <b>Dimmer</b><br>Closed - Open     |
| 2           |           |        |                                    |
| 3           | 0-65535   | 0-360  | <b>Hue</b><br>Closed - Open        |
| 4           |           |        |                                    |
| 5           | 0-65535   | 0-100% | <b>Saturation</b><br>Closed - Open |
| 6           |           |        |                                    |

**MODE 5 XY 8 Bit - 3 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |
| 2           | 0-255     | X*255   | <b>X Coordinate</b><br>Formular: X = DMX_value /255                |
| 3           | 0-255     | Y*255   | <b>Y Coordinate</b><br>Formular: Y = DMX_value /255                |

**MODE 6 XY 16 Bit - 6 CH**

| DMX Channel | DMX Value | Range   | Function  |
|-------------|-----------|---------|---|
| 1           | 0-65535   | 0-100%  | <b>Dimmer</b><br>Closed - Open                        |
| 2           |           |         |   |
| 3           | 0-65535   | X*65535 | <b>X Coordinate</b><br>Formular: X = DMX_value /65535 |
| 4           |           |         |   |
| 5           | 0-65535   | Y*65535 | <b>Y Coordinate</b><br>Formular: Y = DMX_value /65535 |
| 6           |           |         |   |

**MODE 7 RGBWW 8 Bit - 6 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |
| 2           | 0-255     | 0-100%  | <b>Red</b><br>Formular: per = DMX_value *0.392                     |
| 3           | 0-255     | 0-100%  | <b>Green</b><br>Formular: per = DMX_value *0.392                   |
| 4           | 0-255     | 0-100%  | <b>Blue</b><br>Formular: per = DMX_value *0.392                    |
| 5           | 0-255     | 0-100%  | <b>Warm White</b><br>Formular: per = DMX_value *0.392              |
| 6           | 0-255     | 0-100%  | <b>Cool White</b><br>Formular: per = DMX_value *0.392              |

| MODE 8 RGBWW 16 Bit - 12 CH |           |        |                           |
|-----------------------------|-----------|--------|---------------------------|
| DMX Channel                 | DMX Value | Range  | Function                  |
| 1                           | 0-65535   | 0-100% | <b>Dimmer</b>             |
| 2                           |           |        | Closed - Open             |
| 3                           | 0-65535   | 0-100% | <b>Red</b>                |
| 4                           |           |        | Formular: per = DMX value |
| 5                           | 0-65535   | 0-100% | <b>Green</b>              |
| 6                           |           |        | Formular: per = DMX value |
| 7                           | 0-65535   | 0-100% | <b>Blue</b>               |
| 8                           |           |        | Formular: per = DMX value |
| 9                           | 0-65535   | 0-100% | <b>Warm White</b>         |
| 10                          |           |        | Formular: per = DMX value |
| 11                          | 0-65535   | 0-100% | <b>Cool White</b>         |
| 12                          |           |        | Formular: per = DMX value |

| MODE 9 GEL 8 Bit - 4 CH |           |          |  |
|-------------------------|-----------|----------|--|
| DMX Channel             | DMX Value | Range    | Function   |
| 1                       | 0-51      | 0-20%    | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|                         | 51-102    | 20-40%   |  |
|                         | 102-153   | 40-60%   |  |
|                         | 153-204   | 60-80%   |  |
|                         | 204-255   | 80-100%  |  |
| 2                       | 0-127     | 3200K    | <b>3200K</b>   |
|                         | 128-255   | 5600K    | <b>5600K</b>   |
| 3                       | 0-127     | Group I  | <b>Select Group I</b>  |
|                         | 128-255   | Group II | <b>Select Group II</b>   |
| 4                       | 0-121     | 1-122    | <b>GEL Filter Number in Group I</b>                                |
|                         | 0-190     | 123-313  | <b>GEL Filter Number in Group II</b>                               |

| MODE 10 CCT+RGBWW 8 Bit - 9 CH |             |                    |   |
|--------------------------------|-------------|--------------------|---|
| DMX Channel                    | DMX Value   | Range              | Function  |
| 1                              | 0-51        | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392  |
|                                | 51-102      | 20-40%             |   |
|                                | 102-153     | 40-60%             |   |
|                                | 153-204     | 60-80%             |   |
|                                | 204-255     | 80-100%            |   |
| 2                              | 0-255       | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature =<br>2700+DMX_value *28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
| 3                              | 0-20        | 0%                 | <b>Green / Magenta</b>  |
|                                | 21-30       | Full Magenta(100%) |   |
|                                | 31-129      | Magenta(99%-1%)    |   |
|                                | 130-140     | 0%                 |   |
|                                | 141-240     | Green(1%-99%)      |   |
| 241-255                        | Green(100%) |                    |   |
| 4                              | 0-255       | 0-100%             | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW,<br>smooth fade  |
| 5                              | 0-255       | 0-100%             | <b>Red</b><br>Formular: per = DMX_value *0.392  |

|   |       |        |   |
|---|-------|--------|---|
| 6 | 0-255 | 0-100% | <b>Green</b><br>Formular: per = DMX_value *0.392      |
| 7 | 0-255 | 0-100% | <b>Blue</b><br>Formular: per = DMX_value *0.392       |
| 8 | 0-255 | 0-100% | <b>Warm White</b><br>Formular: per = DMX_value *0.392 |
| 9 | 0-255 | 0-100% | <b>Cool White</b><br>Formular: per = DMX_value *0.392 |

**MODE 11 CCT+RGBWW 16 Bit - 18 CH**

| DMX Channel | DMX Value   | Range              | Function  |
|-------------|-------------|--------------------|---|
| 1           | 0-65535     | 0-100%             | <b>Dimmer</b><br>Closed - Open                    |
| 2           |             |                    |   |
| 3           |             |                    |   |
| 4           | 0-65535     | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open         |
| 5           |             |                    |   |
| 5           | 0-5000      | 0%                 | <b>Green / Magenta</b>                            |
|             | 5001-10000  | Full Magenta(100%) |   |
|             | 10001-29999 | Magenta(99%-1%)    |   |
| 6           | 30000-40000 | 0%                 |   |
|             | 40001-59999 | Green(1%-99%)      |   |
|             | 60000-65535 | Green(100%)        |   |
| 7           | 0-65535     | 0-100%             | <b>Crossfade</b><br>0 full CCT, 65535 full RGBWW, |
| 8           |             |                    |   |
| 9           | 0-65535     | 0-100%             | <b>Red</b><br>Formular: per = DMX_value           |
| 10          |             |                    |   |
| 11          | 0-65535     | 0-100%             | <b>Green</b><br>Formular: per = DMX_value         |
| 12          |             |                    |   |
| 13          | 0-65535     | 0-100%             | <b>Blue</b><br>Formular: per = DMX_value          |
| 14          |             |                    |   |
| 15          | 0-65535     | 0-100%             | <b>Warm White</b><br>Formular: per = DMX_value    |
| 16          |             |                    |   |
| 17          | 0-65535     | 0-100%             | <b>Cool White</b><br>Formular: per = DMX_value    |
| 18          |             |                    |   |

**MODE 12 CCT+HSI 8 Bit - 6 CH**

| DMX Channel | DMX Value | Range              | Function  |
|-------------|-----------|--------------------|---|
| 1           | 0-51      | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392  |
|             | 51-102    | 20-40%             |   |
|             | 102-153   | 40-60%             |   |
|             | 153-204   | 60-80%             |   |
|             | 204-255   | 80-100%            |   |
| 2           | 0-255     | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature =<br>2700+DMX_value *28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
| 3           | 0-20      | 0%                 | <b>Green / Magenta</b>  |
|             | 21-30     | Full Magenta(100%) |   |
|             | 31-129    | Magenta(99%-1%)    |   |
|             | 130-140   | 0%                 |   |

|   |         |               |  |
|---|---------|---------------|--|
|   | 141-240 | Green(1%-99%) |  |
|   | 241-255 | Green(100%)   |  |
| 4 | 0-255   | 0-100%        | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW,<br>smooth fade         |
| 5 | 0-255   | 0-360         | <b>HUE</b><br>Formular: HUE = DMX_value<br>*1.4118                     |
| 6 | 0-255   | 0-100%        | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |

**MODE 13 CCT+HSI 16 Bit - 12 CH**

| DMX Channel | DMX Value   | Range              | Function  |
|-------------|-------------|--------------------|---|
| 1           | 0-65535     | 0-100%             | <b>Dimmer</b><br>Closed – Open                    |
| 2           |             |                    |   |
| 3           |             |                    |   |
| 4           |             |                    |   |
| 5           | 0-5000      | 0%                 | <b>Green / Magenta</b>                            |
|             | 5001-10000  | Full Magenta(100%) |   |
|             | 10001-29999 | Magenta(99%-1%)    |   |
| 6           | 30000-40000 | 0%                 |   |
|             | 40001-59999 | Green(1%-99%)      |   |
|             | 60000-65535 | Green(100%)        |   |
| 7           | 0-65535     | 0-100%             | <b>Crossfade</b><br>0 full CCT, 65535 full RGBWW, |
| 8           |             |                    |   |

|    |         |        |   |
|----|---------|--------|---|
| 9  | 0-65535 | 0-360  | <b>HUE</b><br>Formular: HUE = DMX_value |
| 10 |         |        |   |
| 11 |         |        |   |
| 12 | 0-65535 | 0-100% | <b>Saturation</b><br>Closed - Open      |

**MODE 14 CCT+XY 8 Bit - 6 CH**

| DMX Channel | DMX Value | Range              | Function  |
|-------------|-----------|--------------------|---|
| 1           | 0-51      | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392  |
|             | 51-102    | 20-40%             |   |
|             | 102-153   | 40-60%             |   |
|             | 153-204   | 60-80%             |   |
|             | 204-255   | 80-100%            |   |
| 2           | 0-255     | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature =<br>2700+DMX_value *28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
| 3           | 0-20      | 0%                 | <b>Green / Magenta</b>  |
|             | 21-30     | Full Magenta(100%) |   |
|             | 31-129    | Magenta(99%-1%)    |   |
|             | 130-140   | 0%                 |   |
|             | 141-240   | Green(1%-99%)      |   |
|             | 241-255   | Green(100%)        |   |

|   |       |        |  |
|---|-------|--------|--|
| 4 | 0-255 | 0-100% | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW,<br>smooth fade |
| 5 | 0-255 | X*255  | <b>X Coordinate</b><br>Formular: X = DMX_value /255            |
| 6 | 0-255 | Y*255  | <b>Y Coordinate</b><br>Formular: Y = DMX_value /255            |

**MODE 15 CCT+XY 16 Bit - 12 CH**

| DMX Channel | DMX Value   | Range       | Function  |
|-------------|-------------|-------------|---|
| 1           | 0-65535     | 0-100%      | <b>Dimmer</b><br>Closed - Open                        |
| 2           |             |             |   |
| 3           | 0-65535     | 2700-10000K | <b>Color Temperature</b><br>Closed - Open             |
| 4           |             |             |   |
| 5           | 0-5000      | 0-100%      | <b>Green / Magenta</b>                                |
|             | 5001-10000  | 0-100%      |   |
|             | 10001-29999 | 0-100%      |   |
| 6           | 30000-40000 | 0%          |   |
|             | 40001-59999 | 0-100%      |   |
|             | 60000-65535 | 0-100%      |   |
| 7           | 0-65535     | 0-100%      | <b>Crossfade</b><br>0 full CCT, 65535 full RGBWW,     |
| 8           |             |             |   |
| 9           | 0-65535     | X*65535     | <b>X Coordinate</b><br>Formular: X = DMX_value /65535 |
| 10          |             |             |   |
| 11          |             |             |   |
| 12          | 0-65535     | Y*65535     | <b>Y Coordinate</b><br>Formular: Y = DMX_value /65535 |

**MODE 16 CCT+GEL 8 Bit - 7 CH**

| DMX Channel | DMX Value   | Range              | Function  |
|-------------|-------------|--------------------|---|
| 1           | 0-51        | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392  |
|             | 51-102      | 20-40%             |   |
|             | 102-153     | 40-60%             |   |
|             | 153-204     | 60-80%             |   |
|             | 204-255     | 80-100%            |   |
| 2           | 0-255       | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature =<br>2700+DMX_value *28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
| 3           | 0-20        | 0%                 | <b>Green / Magenta</b>  |
|             | 21-30       | Full Magenta(100%) |   |
|             | 31-129      | Magenta(99%-1%)    |   |
|             | 130-140     | 0%                 |   |
|             | 141-240     | Green(1%-99%)      |   |
| 241-255     | Green(100%) |                    |   |
| 4           | 0-255       | 0-100%             | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW,<br>smooth fade  |
| 5           | 0-127       | 3200K              | <b>3200K</b>  |
|             | 128-255     | 5600K              | <b>5600K</b>  |
| 6           | 0-127       | Group I            | <b>Select Group I</b>   |
|             | 128-255     | Group II           | <b>Select Group II</b>  |
| 7           | 0-121       | 1-122              | <b>GEL Filter Number in Group I</b>   |

|  |       |         |                                      |
|--|-------|---------|--------------------------------------|
|  | 0-190 | 123-313 | <b>GEL Filter Number in Group II</b> |
|--|-------|---------|--------------------------------------|

**MODE 17 :CT+GEL 16 Bit - 11 CH**

| DMX Channel | DMX Value     | Range              | Function                             |
|-------------|---------------|--------------------|--------------------------------------|
| 1           | 0-65535       | 0-100%             | <b>Dimmer</b>                        |
| 2           |               |                    | Closed - Open                        |
| 3           |               |                    | <b>Color Temperature</b>             |
| 4           | Closed - Open |                    |                                      |
| 5           | 0-5000        | 0%                 | <b>Green / Magenta</b>               |
|             | 5001-10000    | Full Magenta(100%) |                                      |
|             | 10001-29999   | Magenta(99%-1%)    |                                      |
| 6           | 30000-40000   | 0%                 |                                      |
|             | 40001-59999   | Green(1%-99%)      |                                      |
|             | 60000-65535   | Green(100%)        |                                      |
| 7           | 0-65535       | 0-100%             | <b>Crossfade</b>                     |
| 8           |               |                    | 0 full CCT, 65535 full RGBWW,        |
| 9           | 0-127         | 3200K              | <b>3200K</b>                         |
|             | 128-255       | 5600K              | <b>5600K</b>                         |
| 10          | 0-127         | Group I            | <b>Select Group I</b>                |
|             | 128-255       | Group II           | <b>Select Group II</b>               |
| 11          | 0-121         | 1-122              | <b>GEL Filter Number in Group I</b>  |
|             | 0-190         | 123-313            | <b>GEL Filter Number in Group II</b> |

**MODE 18 RGBWW+HSI 8 Bit - 9 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392     |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |
| 2           | 0-255     | 0-100%  | <b>Red</b><br>Formular: per = DMX_value *0.392                         |
| 3           | 0-255     | 0-100%  | <b>Green</b><br>Formular: per = DMX_value *0.392                       |
| 4           | 0-255     | 0-100%  | <b>Blue</b><br>Formular: per = DMX_value *0.392                        |
| 5           | 0-255     | 0-100%  | <b>Warm White</b><br>Formular: per = DMX_value *0.392                  |
| 6           | 0-255     | 0-100%  | <b>Cool White</b><br>Formular: per = DMX_value *0.392                  |
| 7           | 0-255     | 0-100%  | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW,<br>smooth fade         |
| 8           | 0-255     | 0-360   | <b>HUE</b><br>Formular: HUE = DMX_value<br>*1.4118                     |
| 9           | 0-255     | 0-100%  | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |

**MODE 19 RGBWW+HSI 16 Bit - 18 CH**



| DMX Channel | DMX Value | Range  | Function                      |
|-------------|-----------|--------|-------------------------------|
| 1           | 0-65535   | 0-100% | <b>Dimmer</b>                 |
| 2           |           |        | Closed - Open                 |
| 3           | 0-65535   | 0-100% | <b>Red</b>                    |
| 4           |           |        | Formular: per = DMX value     |
| 5           | 0-65535   | 0-100% | <b>Green</b>                  |
| 6           |           |        | Formular: per = DMX value     |
| 7           | 0-65535   | 0-100% | <b>Blue</b>                   |
| 8           |           |        | Formular: per = DMX value     |
| 9           | 0-65535   | 0-100% | <b>Warm White</b>             |
| 10          |           |        | Formular: per = DMX value     |
| 11          | 0-65535   | 0-100% | <b>Cool White</b>             |
| 12          |           |        | Formular: per = DMX value     |
| 13          | 0-65535   | 0-100% | <b>Crossfade</b>              |
| 14          |           |        | 0 full CCT, 65535 full RGBWW, |
| 15          | 0-65535   | 0-360  | <b>Hue</b>                    |
| 16          |           |        | Formular: per = DMX value     |
| 17          | 0-65535   | 0-100% | <b>Saturation</b>             |
| 18          |           |        | Closed - Open                 |

**MODE 20 RGBWW+XY 8 Bit - 9 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |
| 2           | 0-255     | 0-100%  | <b>Red</b><br>Formular: per = DMX_value *0.392                     |
| 3           | 0-255     | 0-100%  | <b>Green</b><br>Formular: per = DMX_value *0.392                   |
| 4           | 0-255     | 0-100%  | <b>Blue</b><br>Formular: per = DMX_value *0.392                    |
| 5           | 0-255     | 0-100%  | <b>Warm White</b><br>Formular: per = DMX_value *0.392              |
| 6           | 0-255     | 0-100%  | <b>Cool White</b><br>Formular: per = DMX_value *0.392              |
| 7           | 0-255     | 0-100%  | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW,<br>smooth fade     |
| 8           | 0-255     | X*255   | <b>X Coordinate</b><br>Formular: X = DMX_value /255                |
| 9           | 0-255     | Y*255   | <b>Y Coordinate</b><br>Formular: Y = DMX_value /255                |

**MODE 21 RGBWW+XY 16 Bit - 18 CH**

| DMX Channel | DMX Value | Range  | Function                  |
|-------------|-----------|--------|---------------------------|
| 1           | 0-65535   | 0-100% | <b>Dimmer</b>             |
| 2           |           |        | Closed - Open             |
| 3           | 0-65535   | 0-100% | <b>Red</b>                |
| 4           |           |        | Formular: per = DMX value |
| 5           | 0-65535   | 0-100% | <b>Green</b>              |
| 6           |           |        | Formular: per = DMX value |

|    |         |         |                                 |
|----|---------|---------|---------------------------------|
| 7  | 0-65535 | 0-100%  | <b>Blue</b>                     |
| 8  |         |         | Formular: per = DMX value       |
| 9  | 0-65535 | 0-100%  | <b>Warm</b>                     |
| 10 |         |         | Formular: per = DMX value       |
| 11 | 0-65535 | 0-100%  | <b>Cool White</b>               |
| 12 |         |         | Formular: per = DMX value       |
| 13 | 0-65535 | 0-100%  | <b>Crossfade</b>                |
| 14 |         |         | 0 full CCT, 65535 full RGBWW,   |
| 15 | 0-65535 | X*65535 | <b>X Coordinate</b>             |
| 16 |         |         | Formular: X = DMX value /65535  |
| 17 | 0-65535 | Y*65535 | <b>Y Coordinate</b>             |
| 18 |         |         | Formular: Y = DMX value /655.35 |

| <b>MODE 22 HSI+XY 8 Bit - 6 CH</b> |                  |              |  |
|------------------------------------|------------------|--------------|--|
| <b>DMX Channel</b>                 | <b>DMX Value</b> | <b>Range</b> | <b>Function</b>  |
| 1                                  | 0-51             | 0-20%        | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392     |
|                                    | 51-102           | 20-40%       |  |
|                                    | 102-153          | 40-60%       |  |
|                                    | 153-204          | 60-80%       |  |
|                                    | 204-255          | 80-100%      |  |
| 2                                  | 0-255            | 0-360        | <b>Hue</b><br>Closed - Open<br>Formular: HUE = DMX_value *1.4118       |
| 3                                  | 0-255            | 0-100%       | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
| 4                                  | 0-255            | 0-100%       | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW,<br>smooth fade         |
| 5                                  | 0-255            | X*255        | <b>X Coordinate</b><br>Formular: X = DMX_value /255                    |
| 6                                  | 0-255            | Y*255        | <b>Y Coordinate</b><br>Formular: Y = DMX_value /255                    |

| <b>MODE 23 HSI+XY 16 Bit - 12 CH</b> |                  |              |                                |
|--------------------------------------|------------------|--------------|--------------------------------|
| <b>DMX Channel</b>                   | <b>DMX Value</b> | <b>Range</b> | <b>Function</b>                |
| 1                                    | 0-65535          | 0-100%       | <b>Dimmer</b>                  |
| 2                                    |                  |              | Closed - Open                  |
| 3                                    | 0-65535          | 0-360        | <b>Hue</b>                     |
| 4                                    |                  |              | Closed - Open                  |
| 5                                    | 0-65535          | 0-100%       | <b>Saturation</b>              |
| 6                                    |                  |              | Closed - Open                  |
| 7                                    | 0-65535          | 0-100%       | <b>Crossfade</b>               |
| 8                                    |                  |              | 0 full CCT, 65535 full RGBWW,  |
| 9                                    | 0-65535          | X*65535      | <b>X Coordinate</b>            |
| 10                                   |                  |              | Formular: X = DMX_value /65535 |
| 11                                   | 0-65535          | Y*65535      | <b>Y Coordinate</b>            |
| 12                                   |                  |              | Formular: Y = DMX_value /65535 |

| <b>MODE 24 EFFECT - CCT Chase 7 CH</b> |                  |              |  |
|--|------------------|--------------|--|
| <b>DMX Channel</b>                     | <b>DMX Value</b> | <b>Range</b> | <b>Function</b>  |
| 1                                      | 0-51             | 0-20%        | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|  | 51-102           | 20-40%       |  |
|  | 102-153          | 40-60%       |  |
|  | 153-204          | 60-80%       |  |
|  | 204-255          | 80-100%      |  |

|   |         |                                  |   |
|---|---------|----------------------------------|---|
| 2 | 000-014 |                                  | <b>CCT Chase</b>  |
| 3 | 0-255   | 2700-10000K                      | <b>CCT Start</b><br>Formular: Color Temperature =<br>2700 + DMX_value *28.627 |
| 4 | 0-255   | 2700-10000K                      | <b>CCT Stop</b><br>Formular: Color Temperature =<br>2700 + DMX_value *28.627  |
| 5 | 0-20    | 0%                               | <b>Green / Magenta</b>  |
|   | 21-30   | Full Magenta(100%)               |   |
|   | 31-129  | Magenta(99%-1%)                  |   |
|   | 130-140 | 0%                               |   |
|   | 141-240 | Green(1%-99%)                    |   |
|   | 241-255 | Green(100%)                      |   |
| 6 | 10-19   | Loop time increase<br>60 seconds | <b>Loop time (max 600 second)</b>   |
|   | 20-29   | 120 seconds                      |   |
|   | 30-39   | 180 seconds                      |   |
|   | 40-49   | 240 seconds                      |   |
|   | 50-59   | 300 seconds                      |   |
|   | 60-69   | 360 seconds                      |   |
|   | 70-79   | 420 seconds                      |   |
|   | 80-89   | 480 seconds                      |   |
|   | 90-99   | 540 seconds                      |   |
| 7 | 0-50    | 0-50 seconds                     | <b>Second/Loop</b>  |
|   | 50-100  | 50-100 seconds                   |   |
|   | 100-150 | 100-150 seconds                  |   |
|   | 150-200 | 150-200 seconds                  |   |
|   | 200-255 | 200-255 seconds                  |   |

| <b>MODE 24 EFFECT - Color Chase 7 CH</b> |                  |              |  |
|--|------------------|--------------|--|
| <b>DMX Channel</b>                       | <b>DMX Value</b> | <b>Range</b> | <b>Function</b>  |
| 1  | 0-255            | 0-100%       | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392     |
| 2  | 015-026          |              | <b>Color Chase</b>   |
| 3  | 0-42             | 0°-60°       | <b>HUE Start</b><br>Formular: HUE = DMX_value<br>*1.4118               |
|  | 42-85            | 60°-120°     |  |
|  | 85-127           | 120°-180°    |  |
|  | 127-170          | 180°-240°    |  |
|  | 170-212          | 240°-300°    |  |
|  | 212-255          | 300°-360°    |  |
| 4  | 0-42             | 0°-60°       | <b>HUE Stop</b><br>Formular: HUE = DMX_value<br>*1.4118                |
|  | 42-85            | 60°-120°     |  |
|  | 85-127           | 120°-180°    |  |
|  | 127-170          | 180°-240°    |  |
|  | 170-212          | 240°-300°    |  |
|  | 212-255          | 300°-360°    |  |
| 5  | 0-255            | 0%           | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |

|         |       |                                  |                                   |
|---------|-------|----------------------------------|-----------------------------------|
| 6       | 10-19 | Loop time increase<br>60 seconds | <b>Loop time (max 600 second)</b> |
|         | 20-29 | 120 seconds                      |                                   |
|         | 30-39 | 180 seconds                      |                                   |
|         | 40-49 | 240 seconds                      |                                   |
|         | 50-59 | 300 seconds                      |                                   |
|         | 60-69 | 360 seconds                      |                                   |
|         | 70-79 | 420 seconds                      |                                   |
|         | 80-89 | 480 seconds                      |                                   |
|         | 90-99 | 540 seconds                      |                                   |
|         | 7     | 0-50                             |                                   |
| 50-100  |       | 50-100 seconds                   |                                   |
| 100-150 |       | 100-150 seconds                  |                                   |
| 150-200 |       | 150-200 seconds                  |                                   |
| 200-255 |       | 200-255 seconds                  |                                   |

| MODE 24 | EFFECT - Fireworks | 7 CH |
|---------|--------------------|------|
|---------|--------------------|------|

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392     |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |
| 2           | 027-039   |         | <b>Fireworks</b>   |
| 3           | 0-255     | 0-360   | <b>HUE Start</b><br>Formular: HUE = DMX_value *1.4118                  |
| 4           | 0-255     | 0-360   | <b>HUE Stop</b><br>Formular: HUE = DMX_value *1.4118                   |
| 5           | 0-255     | 0-100%  | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
| 6           | 0-255     | 0-60    | <b>Explosion/min</b><br>Formular: speed = dmx_value/4.25               |
| 7           | 0-255     | 5-95    | <b>Duration</b><br>Formular: duty = 5+DMX_value *0.353                 |

| MODE 24 | EFFECT - Fire | 4 CH |
|---------|---------------|------|
|---------|---------------|------|

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |
| 2           | 040-052   |         | <b>Fire</b>  |
| 3           | 0-255     | 0-100   | <b>Wind Speed</b><br>Formular: per = DMX_value *0.392              |
| 4           | 0-49      | 0-49    | <b>Fire Type: Candle</b>   |
|             | 50-99     | 50-99   | <b>Fire Type: Campfire</b>   |
|             | 100-149   | 100-149 | <b>Fire Type: bonfire</b>  |

| MODE 24     |           | EFFECT - Explosion |  | 5 CH |  |
|-------------|-----------|--------------------|--|------|--|
| DMX Channel | DMX Value | Range              | Function   |      |  |
| 1           | 0-51      | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |      |  |
|             | 51-102    | 20-40%             |  |      |  |
|             | 102-153   | 40-60%             |  |      |  |
|             | 153-204   | 60-80%             |  |      |  |
|             | 204-255   | 80-100%            |  |      |  |
| 2           | 053-065   |                    | <b>Explosion</b>   |      |  |
| 3           | 0-255     | 0-60               | <b>Explosion/min</b><br>Formular: speed = DMX_value /4.25          |      |  |
| 4           | 0-255     | 5-95               | <b>Duration</b><br>Formular: duty = 5 + DMX_value *0.353           |      |  |
| 5           | 0-49      | 0-49               | Fire Type: Warm  |      |  |
|             | 50-99     | 50-99              | <b>Fire Type:</b> Cool   |      |  |
|             | 100-149   | 100-149            | <b>Fire Type:</b> Colors   |      |  |

| MODE 24     |             | EFFECT - Lightning |   | 5 CH |  |
|-------------|-------------|--------------------|---|------|--|
| DMX Channel | DMX Value   | Range              | Function  |      |  |
| 1           | 0-51        | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392  |      |  |
|             | 51-102      | 20-40%             |   |      |  |
|             | 102-153     | 40-60%             |   |      |  |
|             | 153-204     | 60-80%             |   |      |  |
|             | 204-255     | 80-100%            |   |      |  |
| 2           | 066-077     |                    | <b>Lightning</b>  |      |  |
| 3           | 0-255       | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature =<br>2700+DMX_value *28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |      |  |
| 4           | 0-20        | 0%                 | <b>Green / Magenta</b>  |      |  |
|             | 21-30       | Full Magenta(100%) |   |      |  |
|             | 31-129      | Magenta(99%-1%)    |   |      |  |
|             | 130-140     | 0%                 |   |      |  |
|             | 141-240     | Green(1%-99%)      |   |      |  |
| 241-255     | Green(100%) |                    |   |      |  |
| 5           | 0-255       | 1-60               | <b>Intervals (Second)</b><br>Formular: time = DMX_value /4.25   |      |  |

| MODE 24     |           | EFFECT - Paparazzi |  | 6 CH |  |
|-------------|-----------|--------------------|--|------|--|
| DMX Channel | DMX Value | Range              | Function   |      |  |
| 1           | 0-51      | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |      |  |
|             | 51-102    | 20-40%             |  |      |  |
|             | 102-153   | 40-60%             |  |      |  |
|             | 153-204   | 60-80%             |  |      |  |
|             | 204-255   | 80-100%            |  |      |  |
| 2           | 078-090   |                    | <b>Paparazzi</b>   |      |  |

|   |         |                    |   |
|---|---------|--------------------|---|
| 3 | 0-255   | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+<br>DMX_value*28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
| 4 | 0-20    | 0%                 | <b>Green / Magenta</b>  |
|   | 21-30   | Full Magenta(100%) |   |
|   | 31-129  | Magenta(99%-1%)    |   |
|   | 130-140 | 0%                 |   |
|   | 141-240 | Green(1%-99%)      |   |
|   | 241-255 | Green(100%)        |   |
| 5 | 0-255   | 0-25Hz             | <b>Frequency</b><br>Formular: frequency = DMX_value /10.2   |
| 6 | 0-49    | 0-49               | <b>Bulb Type:</b> Slow  |
|   | 50-99   | 50-99              | <b>Bulb Type:</b> Medium  |
|   | 100-149 | 100-149            | <b>Bulb Type:</b> Fast  |
|   | 150-199 | 150-199            | <b>Bulb Type:</b> Modern  |

| MODE 24     |           | EFFECT - Pulse | 5 CH   |
|-------------|-----------|----------------|--|
| DMX Channel | DMX Value | Range          | Function   |
| 1           | 0-51      | 0-20%          | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392     |
|             | 51-102    | 20-40%         |  |
|             | 102-153   | 40-60%         |  |
|             | 153-204   | 60-80%         |  |
|             | 204-255   | 80-100%        |  |
| 2           | 091-103   |                | <b>Pulse</b>   |
| 3           | 0-255     | 0-360          | <b>HUE</b><br>Formular: HUE = DMX_value *1.4118                        |
| 4           | 0-255     | 0-100%         | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
| 5           | 0-255     | 1-200          | <b>Pulses/min</b><br>Formular: frequency = 1+DMX_value / 1.281         |

| MODE 24     |           | EFFECT - Police | 6 CH   |
|-------------|-----------|-----------------|--|
| DMX Channel | DMX Value | Range           | Function   |
| 1           | 0-51      | 0-20%           | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|             | 51-102    | 20-40%          |  |
|             | 102-153   | 40-60%          |  |
|             | 153-204   | 60-80%          |  |
|             | 204-255   | 80-100%         |  |
| 2           | 104-116   |                 | <b>Police</b>  |
| 3           | 0-9       | 0-9             | <b>Colors:</b> Red, Blue & White                                   |
|             | 10-19     | 10-19           | <b>Colors:</b> Red & Blue  |
|             | 20-29     | 20-29           | <b>Colors:</b> Red & White   |
|             | 30-39     | 30-39           | <b>Colors:</b> Blue & White  |
|             | 40-49     | 40-49           | <b>Colors:</b> Blue  |
|             | 50-59     | 50-59           | <b>Colors:</b> Red   |

|   |         |         |   |
|---|---------|---------|---|
|   | 60-69   | 60-69   | <b>Colors:</b> Amber                                    |
| 4 | 0-49    | 0-49    | <b>Flash/cycle:</b> 1                                   |
|   | 50-99   | 50-99   | <b>Flash/cycle:</b> 2                                   |
|   | 100-149 | 100-149 | <b>Flash/cycle:</b> 3                                   |
|   | 150-199 | 150-199 | <b>Flash/cycle:</b> 4                                   |
|   | 0-255   | 0-100   | <b>Speed</b><br>Formular: per = DMX_value *0.392        |
| 6 | 0-255   | 5-95    | <b>Duration</b><br>Formular: duty = 5+ DMX_value *0.353 |

| MODE 24     | EFFECT - Strobe Color | 6 CH    |  |
|-------------|-----------------------|---------|--|
| DMX Channel | DMX Value             | Range   | Function   |
| 1           | 0-51                  | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392     |
|             | 51-102                | 20-40%  |  |
|             | 102-153               | 40-60%  |  |
|             | 153-204               | 60-80%  |  |
|             | 204-255               | 80-100% |  |
| 2           | 117-128               |         | <b>Strobe Color</b>  |
| 3           | 0-255                 | 0-360   | <b>HUE</b><br>Formular: HUE = DMX_value *1.4118                        |
| 4           | 0-255                 | 0-100   | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
| 5           | 0-255                 | 0-25Hz  | <b>Frequency</b><br>Formular: Frequency = DMX_value /10.2              |
| 6           | 0-255                 | 5-95    | <b>Duration</b><br>Formular: duty = 5+ DMX_value *0.353                |

| MODE 24     | EFFECT - Strobe CCT | 6 CH               |   |
|-------------|---------------------|--------------------|---|
| DMX Channel | DMX Value           | Range              | Function  |
| 1           | 0-51                | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392  |
|             | 51-102              | 20-40%             |   |
|             | 102-153             | 40-60%             |   |
|             | 153-204             | 60-80%             |   |
|             | 204-255             | 80-100%            |   |
| 2           | 129-141             |                    | <b>Strobe CCT</b>   |
| 3           | 0-255               | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature =<br>2700+DMX_value *28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
| 4           | 0-20                | 0%                 | <b>Green / Magenta</b>  |
|             | 21-30               | Full Magenta(100%) |   |
|             | 31-129              | Magenta(99%-1%)    |   |
|             | 130-140             | 0%                 |   |
|             | 141-240             | Green(1%-99%)      |   |

|   |         |             |   |
|---|---------|-------------|---|
|   | 241-255 | Green(100%) |   |
| 5 | 0-255   | 0-25Hz      | <b>Frequency</b><br>Formular: frequency = DMX_value /10.2 |
| 6 | 0-255   | 5-95        | <b>Duration</b><br>Formular: duty = 5+ DMX_value *0.353   |

| MODE 25 Macro - 2 CH |           |         |  |
|----------------------|-----------|---------|--|
| DMX Channel          | DMX Value | Range   | Function   |
| 1                    | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|                      | 51-102    | 20-40%  |  |
|                      | 102-153   | 40-60%  |  |
|                      | 153-204   | 60-80%  |  |
|                      | 204-255   | 80-100% |  |
| 2                    | 0-46      | 0-46    | Pls check: Appendix I Macro  |

### RANK MODE (RANK 1 - 3)

| RANK 1 - MODE 1 CCT 8 Bit - 3 CH |           |                    |  |
|----------------------------------|-----------|--------------------|--|
| DMX Channel                      | DMX Value | Range              | Function   |
| 1                                | 0-51      | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392   |
|                                  | 51-102    | 20-40%             |  |
|                                  | 102-153   | 40-60%             |  |
|                                  | 153-204   | 60-80%             |  |
|                                  | 204-255   | 80-100%            |  |
| 2                                | 0-255     | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open  |
|                                  |           |                    | Formular:<br>Color Temperature =<br>2700+DMX_value *28.627<br><br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
| 3                                | 0-20      | 0                  | <b>Green / Magenta</b>   |
|                                  | 21-30     | Full Magenta(100%) |  |
|                                  | 30-130    | Magenta(99%-1%)    |  |
|                                  | 130-140   | 0%                 |  |
|                                  | 141-240   | Green(1%-99%)      |  |
|                                  | 241-255   | Green(100%)        |  |

### RANK 2 - MODE 1 CCT 8 Bit - 3 CH

DMX Channel 4 - 6, the value and function is same as RANK 1

### RANK 3 - MODE 1 CCT 8 Bit - 3 CH

DMX Channel 7 - 9, the value and function is same as RANK 1

### RANK 1 - MODE 2 CCT 16 Bit - 6 CH

| DMX Channel | DMX Value | Range       | Function                                  |
|-------------|-----------|-------------|---|
| 1           | 0-65535   | 0-100%      | <b>Dimmer</b><br>Closed - Open            |
| 2           |           |             |   |
| 3           | 0-65535   | 2700-10000K | <b>Color Temperature</b><br>Closed - Open |
| 4           |           |             |   |



|   |             |                    |                        |
|---|-------------|--------------------|------------------------|
| 5 | 0-5000      | 0%                 | <b>Green / Magenta</b> |
|   | 5001-10000  | Full Magenta(100%) |                        |
|   | 10001-29999 | Magenta(99%-1%)    |                        |
| 6 | 30000-40000 | 0%                 |                        |
|   | 40001-59999 | Green(1%-99%)      |                        |
|   | 60000-65535 | Green(100%)        |                        |

**RANK 2 - MODE 2 CCT 16 Bit - 6 CH**

DMX Channel 7 - 12, the value and function is same as RANK 1

**RANK 3 - MODE 2 CCT 16 Bit - 6 CH**

DMX Channel 13 - 18, the value and function is same as RANK 1

**RANK 1 - MODE 3 HSI 8 Bit - 3 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392     |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |
| 2           | 0-255     | 0-360   | <b>Hue</b><br>Closed - Open<br>Formular: HUE = DMX_value *1.4118       |
| 3           | 0-255     | 0-100%  | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |

**RANK 2 - MODE 3 HSI 8 Bit - 3 CH**

DMX Channel 4 - 6, the value and function is same as RANK 1

**RANK 3 - MODE 3 HSI 8 Bit - 3 CH**

DMX Channel 7 - 9, the value and function is same as RANK 1

**RANK 1 - MODE 4 HSI 16 Bit - 6 CH**

| DMX Channel | DMX Value | Range  | Function                           |
|-------------|-----------|--------|------------------------------------|
| 1           | 0-65535   | 0-100% | <b>Dimmer</b><br>Closed - Open     |
| 2           |           |        |                                    |
| 3           | 0-65535   | 0-360  | <b>Hue</b><br>Closed - Open        |
| 4           |           |        |                                    |
| 5           | 0-65535   | 0-100% | <b>Saturation</b><br>Closed - Open |
| 6           |           |        |                                    |

**RANK 2 - MODE 4 HSI 16 Bit - 6 CH**

DMX Channel 7 - 12, the value and function is same as RANK 1

**RANK 3 - MODE 4 HSI 16 Bit - 6 CH**

DMX Channel 13 - 18, the value and function is same as RANK 1

**RANK 1 - MODE 5 XY 8 Bit - 3 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |

|   |       |       |   |
|---|-------|-------|---|
| 2 | 0-255 | X*255 | <b>X Coordinate</b><br>Formular: X = DMX_value /255 |
| 3 | 0-255 | Y*255 | <b>Y Coordinate</b><br>Formular: Y = DMX_value /255 |

**RANK 2 - MODE 5 XY 8 Bit - 3 CH**

DMX Channel 4 - 6, the value and function is same as RANK 1

**RANK 3 - MODE 5 XY 8 Bit - 3 CH**

DMX Channel 7 - 9, the value and function is same as RANK 1

**RANK 1 - MODE 6 XY 16 Bit - 6 CH**

| DMX Channel | DMX Value | Range   | Function  |
|-------------|-----------|---------|---|
| 1           | 0-65535   | 0-100%  | <b>Dimmer</b><br>Closed – Open                        |
| 2           |           |         |   |
| 3           | 0-65535   | X*65535 | <b>X Coordinate</b><br>Formular: X = DMX_value /65535 |
| 4           |           |         |   |
| 5           | 0-65535   | Y*65535 | <b>Y Coordinate</b><br>Formular: Y = DMX_value /65535 |
| 6           |           |         |   |

**RANK 2 - MODE 6 XY 16 Bit - 6 CH**

DMX Channel 7 - 12, the value and function is same as RANK 1

**RANK 3 - MODE 6 XY 16 Bit - 6 CH**

DMX Channel 13 - 18, the value and function is same as RANK 1

**RANK 1 - MODE 7 RGBWW 8 Bit - 6 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |
| 2           | 0-255     | 0-100%  | <b>Red</b><br>Formular: per = DMX_value *0.392                     |
| 3           | 0-255     | 0-100%  | <b>Green</b><br>Formular: per = DMX_value *0.392                   |
| 4           | 0-255     | 0-100%  | <b>Blue</b><br>Formular: per = DMX_value *0.392                    |
| 5           | 0-255     | 0-100%  | <b>Warm White</b><br>Formular: per = DMX_value *0.392              |
| 6           | 0-255     | 0-100%  | <b>Cool White</b><br>Formular: per = DMX_value *0.392              |

**RANK 2 - MODE 7 RGBWW 8 Bit - 6 CH**

DMX Channel 7 - 12, the value and function is same as RANK 1

**RANK 3 - MODE 7 RGBWW 8 Bit - 6 CH**

DMX Channel 13 - 18, the value and function is same as RANK 1

**RANK 1 - MODE 8 RGBWW 16 Bit - 12 CH**

| DMX Channel | DMX Value | Range  | Function      |
|-------------|-----------|--------|---------------|
| 1           | 0-65535   | 0-100% | <b>Dimmer</b> |

|    |         |        |                           |
|----|---------|--------|---------------------------|
| 2  | 0-65535 | 0-100% | Closed - Open             |
| 3  | 0-65535 | 0-100% | <b>Red</b>                |
| 4  |         |        | Formular: per = DMX value |
| 5  | 0-65535 | 0-100% | <b>Green</b>              |
| 6  |         |        | Formular: per = DMX value |
| 7  | 0-65535 | 0-100% | <b>Blue</b>               |
| 8  |         |        | Formular: per = DMX value |
| 9  | 0-65535 | 0-100% | <b>Warm White</b>         |
| 10 |         |        | Formular: per = DMX value |
| 11 | 0-65535 | 0-100% | <b>Cool White</b>         |
| 12 |         |        | Formular: per = DMX value |

**RANK 2 - MODE 8 RGBWW 16 Bit - 12 CH**

DMX Channel 13 - 24, the value and function is same as RANK 1

**RANK 3 - MODE 8 RGBWW 16 Bit - 12 CH**

DMX Channel 25 - 36 the value and function is same as RANK 1

**RANK 1 - MODE 9 GEL 8 Bit - 4 CH**

| DMX Channel | DMX Value | Range    | Function   |
|-------------|-----------|----------|--|
| 1           | 0-51      | 0-20%    | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|             | 51-102    | 20-40%   |  |
|             | 102-153   | 40-60%   |  |
|             | 153-204   | 60-80%   |  |
|             | 204-255   | 80-100%  |  |
| 2           | 0-127     | 3200K    | <b>3200K</b>   |
|             | 128-255   | 5600K    | <b>5600K</b>   |
| 3           | 0-127     | Group I  | <b>Select Group I</b>  |
|             | 128-255   | Group II | <b>Select Group II</b>   |
| 4           | 0-121     | 1-122    | <b>GEL Filter Number in Group I</b>                                |
|             | 0-190     | 123-313  | <b>GEL Filter Number in Group II</b>                               |

**RANK 2 - MODE 9 GEL 8 Bit - 4 CH**

DMX Channel 5 - 8, the value and function is same as RANK 1

**RANK 3 - MODE 9 GEL 8 Bit - 4 CH**

DMX Channel 9-12, the value and function is same as RANK 1

**RANK 1 - MODE 10 CCT+RGBWW 8 Bit - 9 CH**

| DMX Channel | DMX Value | Range              | Function  |
|-------------|-----------|--------------------|---|
| 1           | 0-51      | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392  |
|             | 51-102    | 20-40%             |   |
|             | 102-153   | 40-60%             |   |
|             | 153-204   | 60-80%             |   |
|             | 204-255   | 80-100%            |   |
| 2           | 0-255     | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature =<br>2700+DMX_value *28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
| 3           | 0-20      | 0%                 | <b>Green / Magenta</b>  |
|             | 21-30     | Full Magenta(100%) |   |
|             | 31-129    | Magenta(99%-1%)    |   |
|             | 130-140   | 0%                 |   |

|   |         |               |  |
|---|---------|---------------|--|
|   | 141-240 | Green(1%-99%) |  |
|   | 241-255 | Green(100%)   |  |
| 4 | 0-255   | 0-100%        | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW,<br>smooth fade |
| 5 | 0-255   | 0-100%        | <b>Red</b><br>Formular: per = DMX_value *0.392                 |
| 6 | 0-255   | 0-100%        | <b>Green</b><br>Formular: per = DMX_value *0.392               |
| 7 | 0-255   | 0-100%        | <b>Blue</b><br>Formular: per = DMX_value *0.392                |
| 8 | 0-255   | 0-100%        | <b>Warm White</b><br>Formular: per = DMX_value *0.392          |
| 9 | 0-255   | 0-100%        | <b>Cool White</b><br>Formular: per = DMX_value *0.392          |

**RANK 2 - MODE 10 CCT+RGBWW 8 Bit - 9 CH**

DMX Channel 10 - 18, the value and function is same as RANK 1

**RANK 3 - MODE 10 CCT+RGBWW 8 Bit - 9 CH**

DMX Channel 19 - 27, the value and function is same as RANK 1

**RANK 1 - MODE 11 CCT+RGBWW 16 Bit - 18 CH**

| DMX Channel | DMX Value   | Range              | Function  |
|-------------|-------------|--------------------|---|
| 1           | 0-65535     | 0-100%             | <b>Dimmer</b><br>Closed - Open                    |
| 2           |             |                    |   |
| 3           | 0-65535     | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open         |
| 4           |             |                    |   |
| 5           | 0-5000      | 0%                 | <b>Green / Magenta</b>                            |
|             | 5001-10000  | Full Magenta(100%) |   |
|             | 10001-29999 | Magenta(99%-1%)    |   |
| 6           | 30000-40000 | 0%                 |   |
|             | 40001-59999 | Green(1%-99%)      |   |
|             | 60000-65535 | Green(100%)        |   |
| 7           | 0-65535     | 0-100%             | <b>Crossfade</b><br>0 full CCT, 65535 full RGBWW, |
| 8           |             |                    |   |
| 9           | 0-65535     | 0-100%             | <b>Red</b><br>Formular: per = DMX_value           |
| 10          |             |                    |   |
| 11          | 0-65535     | 0-100%             | <b>Green</b><br>Formular: per = DMX_value         |
| 12          |             |                    |   |
| 13          | 0-65535     | 0-100%             | <b>Blue</b><br>Formular: per = DMX_value          |
| 14          |             |                    |   |
| 15          | 0-65535     | 0-100%             | <b>Warm White</b><br>Formular: per = DMX_value    |
| 16          |             |                    |   |
| 17          | 0-65535     | 0-100%             | <b>Cool White</b><br>Formular: per = DMX_value    |
| 18          |             |                    |   |

**RANK 2 - MODE 11 CCT+RGBWW 16 Bit - 18 CH**

DMX Channel 19 - 36, the value and function is same as RANK 1

**RANK 3 - MODE 11 CCT+RGBWW 16 Bit - 18 CH**

DMX Channel 37 - 54, the value and function is same as RANK 1

| RANK 1 - MODE 12 CCT+HSI 8 Bit - 6 CH |           |                    |   |
|---------------------------------------|-----------|--------------------|---|
| DMX Channel                           | DMX Value | Range              | Function  |
| 1                                     | 0-51      | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392  |
|                                       | 51-102    | 20-40%             |   |
|                                       | 102-153   | 40-60%             |   |
|                                       | 153-204   | 60-80%             |   |
|                                       | 204-255   | 80-100%            |   |
| 2                                     | 0-255     | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature =<br>2700+DMX_value *28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
|                                       |           |                    |   |
| 3                                     | 0-20      | 0%                 | <b>Green / Magenta</b>  |
|                                       | 21-30     | Full Magenta(100%) |   |
|                                       | 31-129    | Magenta(99%-1%)    |   |
|                                       | 130-140   | 0%                 |   |
|                                       | 141-240   | Green(1%-99%)      |   |
|                                       | 241-255   | Green(100%)        |   |
| 4                                     | 0-255     | 0-100%             | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW,<br>smooth fade  |
| 5                                     | 0-255     | 0-360              | <b>HUE</b><br>Formular: HUE = DMX_value<br>*1.4118  |
| 6                                     | 0-255     | 0-100%             | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392  |

#### RANK 2 - MODE 12 CCT+HSI 8 Bit - 6 CH

DMX Channel 7 - 12, the value and function is same as RANK 1

#### RANK 3 - MODE 12 CCT+HSI 8 Bit - 6 CH

DMX Channel 13 - 18, the value and function is same as RANK 1

#### RANK 1 - MODE 13 CCT+HSI 16 Bit - 12 CH

| DMX Channel | DMX Value   | Range              | Function  |
|-------------|-------------|--------------------|---|
| 1           | 0-65535     | 0-100%             | <b>Dimmer</b><br>Closed – Open                    |
| 2           |             |                    |   |
| 3           | 0-65535     | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open         |
| 4           |             |                    |   |
| 5           | 0-5000      | 0%                 | <b>Green / Magenta</b>                            |
|             | 5001-10000  | Full Magenta(100%) |   |
|             | 10001-29999 | Magenta(99%-1%)    |   |
| 6           | 30000-40000 | 0%                 | <b>Green / Magenta</b>                            |
|             | 40001-59999 | Green(1%-99%)      |   |
|             | 60000-65535 | Green(100%)        |   |
| 7           | 0-65535     | 0-100%             | <b>Crossfade</b><br>0 full CCT, 65535 full RGBWW, |
| 8           |             |                    |   |
| 9           | 0-65535     | 0-360              | <b>HUE</b><br>Formular: HUE = DMX_value           |
| 10          |             |                    |   |
| 11          | 0-65535     | 0-100%             | <b>Saturation</b><br>Closed - Open                |
| 12          |             |                    |   |

**RANK 2 - MODE 13 CCT+HSI 16 Bit - 12 CH**

DMX Channel 13 - 24, the value and function is same as RANK 1

**RANK 3 - MODE 13 CCT+HSI 16 Bit - 12 CH**

DMX Channel 25 - 36 the value and function is same as RANK 1

**RANK 1 - MODE 14 CCT+XY 8 Bit - 6 CH**

| DMX Channel | DMX Value   | Range              | Function  |
|-------------|-------------|--------------------|---|
| 1           | 0-51        | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392  |
|             | 51-102      | 20-40%             |   |
|             | 102-153     | 40-60%             |   |
|             | 153-204     | 60-80%             |   |
|             | 204-255     | 80-100%            |   |
| 2           | 0-255       | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature =<br>2700+DMX_value *28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
| 3           | 0-20        | 0%                 | <b>Green / Magenta</b>  |
|             | 21-30       | Full Magenta(100%) |   |
|             | 31-129      | Magenta(99%-1%)    |   |
|             | 130-140     | 0%                 |   |
|             | 141-240     | Green(1%-99%)      |   |
| 241-255     | Green(100%) |                    |   |
| 4           | 0-255       | 0-100%             | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW,<br>smooth fade  |
| 5           | 0-255       | X*255              | <b>X Coordinate</b><br>Formular: X = DMX_value /255   |
| 6           | 0-255       | Y*255              | <b>Y Coordinate</b><br>Formular: Y = DMX_value /255   |

**RANK 2 - MODE 14 CCT+XY 8 Bit - 6 CH**

DMX Channel 7 - 12, the value and function is same as RANK 1

**RANK 3 - MODE 14 CCT+XY 8 Bit - 6 CH**

DMX Channel 13 - 18, the value and function is same as RANK 1

**RANK 1 - MODE 15 CCT+XY 16 Bit - 12 CH**

| DMX Channel | DMX Value   | Range       | Function  |
|-------------|-------------|-------------|---|
| 1           | 0-65535     | 0-100%      | <b>Dimmer</b><br>Closed - Open                        |
| 2           |             |             |   |
| 3           | 0-65535     | 2700-10000K | <b>Color Temperature</b><br>Closed - Open             |
| 4           |             |             |   |
| 5           | 0-5000      | 0-100%      | <b>Green / Magenta</b>                                |
|             | 5001-10000  | 0-100%      |   |
|             | 10001-29999 | 0-100%      |   |
| 6           | 30000-40000 | 0%          |   |
|             | 40001-59999 | 0-100%      |   |
|             | 60000-65535 | 0-100%      |   |
| 7           | 0-65535     | 0-100%      | <b>Crossfade</b><br>0 full CCT, 65535 full RGBWW,     |
| 8           |             |             |   |
| 9           | 0-65535     | X*65535     | <b>X Coordinate</b><br>Formular: X = DMX_value /65535 |
| 10          |             |             |   |

|    |         |         |  |
|----|---------|---------|--|
| 11 | 0-65535 | Y*65535 | <b>Y Coordinate</b><br>Formular: $Y = \text{DMX\_value} / 65535$ |
| 12 |         |         |  |

**RANK 2 - MODE 15 CCT+XY 16 Bit - 12 CH**

DMX Channel 13 - 24, the value and function is same as RANK 1

**RANK 3 - MODE 15 CCT+XY 16 Bit - 12 CH**

DMX Channel 25 - 36 the value and function is same as RANK 1

**RANK 1 - MODE 16 CCT+GEL 8 Bit - 7 CH**

| DMX Channel | DMX Value   | Range              | Function  |
|-------------|-------------|--------------------|---|
| 1           | 0-51        | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: $\text{per} = \text{DMX\_value} * 0.392$  |
|             | 51-102      | 20-40%             |   |
|             | 102-153     | 40-60%             |   |
|             | 153-204     | 60-80%             |   |
|             | 204-255     | 80-100%            |   |
| 2           | 0-255       | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature =<br>$2700 + \text{DMX\_value} * 28.627$<br>Example: 17 → 3200K<br>101 → 5600K<br>185 → 8000K<br>255 → 10000K |
| 3           | 0-20        | 0%                 | <b>Green / Magenta</b>  |
|             | 21-30       | Full Magenta(100%) |   |
|             | 31-129      | Magenta(99%-1%)    |   |
|             | 130-140     | 0%                 |   |
|             | 141-240     | Green(1%-99%)      |   |
| 241-255     | Green(100%) |                    |   |
| 4           | 0-255       | 0-100%             | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW,<br>smooth fade  |
| 5           | 0-127       | 3200K              | <b>3200K</b>  |
|             | 128-255     | 5600K              | <b>5600K</b>  |
| 6           | 0-127       | Group I            | <b>Select Group I</b>   |
|             | 128-255     | Group II           | <b>Select Group II</b>  |
| 7           | 0-121       | 1-122              | <b>GEL Filter Number in Group I</b>   |
|             | 0-190       | 123-313            | <b>GEL Filter Number in Group II</b>  |

**RANK 2 - MODE 16 CCT+GEL 8 Bit - 7 CH**

DMX Channel 8 - 14, the value and function is same as RANK 1

**RANK 3 - MODE 16 CCT+GEL 8 Bit - 7 CH**

DMX Channel 15 - 21, the value and function is same as RANK 1

**RANK 1 - MODE 17 CCT+GEL 16 Bit - 11 CH**

| DMX Channel | DMX Value   | Range              | Function                                  |
|-------------|-------------|--------------------|---|
| 1           | 0-65535     | 0-100%             | <b>Dimmer</b><br>Closed - Open            |
| 2           |             |                    |   |
| 3           |             |                    | <b>Color Temperature</b><br>Closed - Open |
| 4           |             |                    |   |
| 5           | 0-5000      | 0%                 | <b>Green / Magenta</b>                    |
|             | 5001-10000  | Full Magenta(100%) |   |
|             | 10001-29999 | Magenta(99%-1%)    |   |
| 6           | 30000-40000 | 0%                 |   |
|             | 40001-59999 | Green(1%-99%)      |   |

|    |             |             |                                      |
|----|-------------|-------------|--------------------------------------|
|    | 60000-65535 | Green(100%) |                                      |
| 7  | 0-65535     | 0-100%      | <b>Crossfade</b>                     |
| 8  |             |             | 0 full CCT, 65535 full RGBWW,        |
| 9  | 0-127       | 3200K       | <b>3200K</b>                         |
|    | 128-255     | 5600K       | <b>5600K</b>                         |
| 10 | 0-127       | Group I     | <b>Select Group I</b>                |
|    | 128-255     | Group II    | <b>Select Group II</b>               |
| 11 | 0-121       | 1-122       | <b>GEL Filter Number in Group I</b>  |
|    | 0-190       | 123-313     | <b>GEL Filter Number in Group II</b> |

**RANK 2 - MODE 17 :CT+GEL 16 Bit - 11 CH**

DMX Channel 12 - 22, the value and function is same as RANK 1

**RANK 3 - MODE 17 :CT+GEL 16 Bit - 11 CH**

DMX Channel 23 - 33, the value and function is same as RANK 1

**RANK 1 - MODE 18 RGBWW+HSI 8 Bit - 9 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392     |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |
| 2           | 0-255     | 0-100%  | <b>Red</b><br>Formular: per = DMX_value *0.392                         |
| 3           | 0-255     | 0-100%  | <b>Green</b><br>Formular: per = DMX_value *0.392                       |
| 4           | 0-255     | 0-100%  | <b>Blue</b><br>Formular: per = DMX_value *0.392                        |
| 5           | 0-255     | 0-100%  | <b>Warm White</b><br>Formular: per = DMX_value *0.392                  |
| 6           | 0-255     | 0-100%  | <b>Cool White</b><br>Formular: per = DMX_value *0.392                  |
| 7           | 0-255     | 0-100%  | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW,<br>smooth fade         |
| 8           | 0-255     | 0-360   | <b>HUE</b><br>Formular: HUE = DMX_value<br>*1.4118                     |
| 9           | 0-255     | 0-100%  | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |

**RANK 2 - MODE 18 RGBWW+HSI 8 Bit - 9 CH**

DMX Channel 10 - 18, the value and function is same as RANK 1

**RANK 3 - MODE 18 RGBWW+HSI 8 Bit - 9 CH**

DMX Channel 19 - 27, the value and function is same as RANK 1

**RANK 1 - MODE 19 RGBWW+HSI 16 Bit - 18 CH**

| DMX Channel | DMX Value | Range  | Function      |
|-------------|-----------|--------|---------------|
| 1           | 0-65535   | 0-100% | <b>Dimmer</b> |



|    |         |        |                               |
|----|---------|--------|-------------------------------|
| 2  | 0-65535 | 0-100% | Closed - Open                 |
| 3  | 0-65535 | 0-100% | <b>Red</b>                    |
| 4  |         |        | Formular: per = DMX_value     |
| 5  | 0-65535 | 0-100% | <b>Green</b>                  |
| 6  |         |        | Formular: per = DMX_value     |
| 7  | 0-65535 | 0-100% | <b>Blue</b>                   |
| 8  |         |        | Formular: per = DMX_value     |
| 9  | 0-65535 | 0-100% | <b>Warm White</b>             |
| 10 |         |        | Formular: per = DMX_value     |
| 11 | 0-65535 | 0-100% | <b>Cool White</b>             |
| 12 |         |        | Formular: per = DMX_value     |
| 13 | 0-65535 | 0-100% | <b>Crossfade</b>              |
| 14 |         |        | 0 full CCT, 65535 full RGBWW, |
| 15 | 0-65535 | 0-360  | <b>Hue</b>                    |
| 16 |         |        | Formular: per = DMX_value     |
| 17 | 0-65535 | 0-100% | <b>Saturation</b>             |
| 18 |         |        | Closed - Open                 |

**RANK 2 - MODE 19 RGBWW+HSI 16 Bit - 18 CH**

DMX Channel 19 - 36, the value and function is same as RANK 1

**RANK 3 - MODE 19 RGBWW+HSI 16 Bit - 18 CH**

DMX Channel 37 - 54, the value and function is same as RANK 1

**RANK 1 - MODE 20 RGBWW+XY 8 Bit - 9 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |
| 2           | 0-255     | 0-100%  | <b>Red</b><br>Formular: per = DMX_value *0.392                     |
| 3           | 0-255     | 0-100%  | <b>Green</b><br>Formular: per = DMX_value *0.392                   |
| 4           | 0-255     | 0-100%  | <b>Blue</b><br>Formular: per = DMX_value *0.392                    |
| 5           | 0-255     | 0-100%  | <b>Warm White</b><br>Formular: per = DMX_value *0.392              |
| 6           | 0-255     | 0-100%  | <b>Cool White</b><br>Formular: per = DMX_value *0.392              |
| 7           | 0-255     | 0-100%  | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW,<br>smooth fade     |
| 8           | 0-255     | X*255   | <b>X Coordinate</b><br>Formular: X = DMX_value /255                |
| 9           | 0-255     | Y*255   | <b>Y Coordinate</b><br>Formular: Y = DMX_value /255                |

**RANK 2 - MODE 20 RGBWW+XY 8 Bit - 9 CH**

DMX Channel 10 - 18, the value and function is same as RANK 1

**RANK 3 - MODE 20 RGBWW+XY 8 Bit - 9 CH**

DMX Channel 19 - 27, the value and function is same as RANK 1

| RANK 1 - MODE 21 RGBWW+XY 16 Bit - 18 CH |           |         |                                 |
|--|-----------|---------|---------------------------------|
| DMX Channel                              | DMX Value | Range   | Function                        |
| 1  | 0-65535   | 0-100%  | <b>Dimmer</b>                   |
| 2  |           |         | Closed - Open                   |
| 3  | 0-65535   | 0-100%  | <b>Red</b>                      |
| 4  |           |         | Formular: per = DMX value       |
| 5  | 0-65535   | 0-100%  | <b>Green</b>                    |
| 6  |           |         | Formular: per = DMX value       |
| 7  | 0-65535   | 0-100%  | <b>Blue</b>                     |
| 8  |           |         | Formular: per = DMX value       |
| 9  | 0-65535   | 0-100%  | <b>Warm</b>                     |
| 10                                       |           |         | Formular: per = DMX value       |
| 11                                       | 0-65535   | 0-100%  | <b>Cool White</b>               |
| 12                                       |           |         | Formular: per = DMX value       |
| 13                                       | 0-65535   | 0-100%  | <b>Crossfade</b>                |
| 14                                       |           |         | 0 full CCT, 65535 full RGBWW,   |
| 15                                       | 0-65535   | X*65535 | <b>X Coordinate</b>             |
| 16                                       |           |         | Formular: X = DMX value /65535  |
| 17                                       | 0-65535   | Y*65535 | <b>Y Coordinate</b>             |
| 18                                       |           |         | Formular: Y = DMX value /655.35 |

**RANK 2 - MODE 21 RGBWW+XY 16 Bit - 18 CH**  
 DMX Channel 19 - 36, the value and function is same as RANK 1

**RANK 3 - MODE 21 RGBWW+XY 16 Bit - 18 CH**  
 DMX Channel 37 - 54, the value and function is same as RANK 1

| RANK 1 - MODE 22 HSI+XY 8 Bit - 6 CH |           |         |  |
|--------------------------------------|-----------|---------|--|
| DMX Channel                          | DMX Value | Range   | Function   |
| 1                                    | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392     |
|                                      | 51-102    | 20-40%  |  |
|                                      | 102-153   | 40-60%  |  |
|                                      | 153-204   | 60-80%  |  |
|                                      | 204-255   | 80-100% |  |
| 2                                    | 0-255     | 0-360   | <b>Hue</b><br>Closed - Open<br>Formular: HUE = DMX_value *1.4118       |
| 3                                    | 0-255     | 0-100%  | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
| 4                                    | 0-255     | 0-100%  | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW,<br>smooth fade         |
| 5                                    | 0-255     | X*255   | <b>X Coordinate</b><br>Formular: X = DMX_value /255                    |
| 6                                    | 0-255     | Y*255   | <b>Y Coordinate</b><br>Formular: Y = DMX_value /255                    |

**RANK 2 - MODE 22 HSI+XY 8 Bit - 6 CH**  
 DMX Channel 7 - 12, the value and function is same as RANK 1

**RANK 3 - MODE 22 HSI+XY 8 Bit - 6 CH**  
 DMX Channel 13 - 18, the value and function is same as RANK 1

**RANK 1 - MODE 23 HSI+XY 16 Bit - 12 CH**

| DMX Channel | DMX Value | Range   | Function  |
|-------------|-----------|---------|---|
| 1           | 0-65535   | 0-100%  | <b>Dimmer</b><br>Closed - Open                        |
| 2           |           |         |   |
| 3           | 0-65535   | 0-360   | <b>Hue</b><br>Closed - Open                           |
| 4           |           |         |   |
| 5           | 0-65535   | 0-100%  | <b>Saturation</b><br>Closed - Open                    |
| 6           |           |         |   |
| 7           | 0-65535   | 0-100%  | <b>Crossfade</b><br>0 full CCT, 65535 full RGBWW,     |
| 8           |           |         |   |
| 9           | 0-65535   | X*65535 | <b>X Coordinate</b><br>Formular: X = DMX value /65535 |
| 10          |           |         |   |
| 11          | 0-65535   | Y*65535 | <b>Y Coordinate</b><br>Formular: Y = DMX value /65535 |
| 12          |           |         |   |

**RANK 2 - MODE 23 HSI+XY 16 Bit - 12 CH**

DMX Channel 13 - 24, the value and function is same as RANK 1

**RANK 3 - MODE 23 HSI+XY 16 Bit - 12 CH**

DMX Channel 25 - 36 the value and function is same as RANK 1

**RANK 1 - MODE 24 EFFECT - CCT Chase 7 CH**

| DMX Channel | DMX Value | Range                            | Function  |
|-------------|-----------|----------------------------------|---|
| 1           | 0-51      | 0-20%                            | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392            |
|             | 51-102    | 20-40%                           |   |
|             | 102-153   | 40-60%                           |   |
|             | 153-204   | 60-80%                           |   |
|             | 204-255   | 80-100%                          |   |
| 2           | 000-014   |                                  | <b>CCT Chase</b>  |
| 3           | 0-255     | 2700-10000K                      | <b>CCT Start</b><br>Formular: Color Temperature =<br>2700 + DMX_value *28.627 |
| 4           | 0-255     | 2700-10000K                      | <b>CCT Stop</b><br>Formular: Color Temperature =<br>2700 + DMX_value *28.627  |
| 5           | 0-20      | 0%                               | <b>Green / Magenta</b>  |
|             | 21-30     | Full Magenta(100%)               |   |
|             | 31-129    | Magenta(99%-1%)                  |   |
|             | 130-140   | 0%                               |   |
|             | 141-240   | Green(1%-99%)                    |   |
|             | 241-255   | Green(100%)                      |   |
| 6           | 10-19     | Loop time increase<br>60 seconds | <b>Loop time (max 600 second)</b>   |
|             | 20-29     | 120 seconds                      |   |
|             | 30-39     | 180 seconds                      |   |
|             | 40-49     | 240 seconds                      |   |
|             | 50-59     | 300 seconds                      |   |
|             | 60-69     | 360 seconds                      |   |
|             | 70-79     | 420 seconds                      |   |
|             | 80-89     | 480 seconds                      |   |
|             | 90-99     | 540 seconds                      |   |
| 7           | 0-50      | 0-50 seconds                     | <b>Second/Loop</b>  |
|             | 50-100    | 50-100 seconds                   |   |
|             | 100-150   | 100-150 seconds                  |   |
|             | 150-200   | 150-200 seconds                  |   |
|             | 200-255   | 200-255 seconds                  |   |

**RANK 2 - MODE 24 EFFECT - CCT Chase 7 CH**

DMX Channel 8 - 14, the value and function is same as RANK 1

**RANK 3 - MODE 24 EFFECT - CCT Chase 7 CH**

DMX Channel 15 - 21, the value and function is same as RANK 1

**RANK 1 - MODE 24 EFFECT - Color Chase 7 CH**

| DMX Channel | DMX Value   | Range  | Function   |
|-------------|---|--|--|
| 1           | 0-255   | 0-100%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392     |
| 2           | 015-026   |  | <b>Color Chase</b>   |
| 3           | 0-42<br>42-85<br>85-127<br>127-170<br>170-212<br>212-255                      | 0°-60°<br>60°-120°<br>120°-180°<br>180°-240°<br>240°-300°<br>300°-360°   | <b>HUE Start</b><br>Formular: HUE = DMX_value *1.4118                  |
| 4           | 0-42<br>42-85<br>85-127<br>127-170<br>170-212<br>212-255                      | 0°-60°<br>60°-120°<br>120°-180°<br>180°-240°<br>240°-300°<br>300°-360°   | <b>HUE Stop</b><br>Formular: HUE = DMX_value *1.4118                   |
| 5           | 0-255   | 0%   | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
| 6           | 10-19<br>20-29<br>30-39<br>40-49<br>50-59<br>60-69<br>70-79<br>80-89<br>90-99 | Loop time increase<br>60 seconds<br>120 seconds<br>180 seconds<br>240 seconds<br>300 seconds<br>360 seconds<br>420 seconds<br>480 seconds<br>540 seconds | <b>Loop time (max 600 second)</b>                                      |
| 7           | 0-50<br>50-100<br>100-150<br>150-200<br>200-255                               | 0-50 seconds<br>50-100 seconds<br>100-150 seconds<br>150-200 seconds<br>200-255 seconds  | <b>Second/Loop</b>   |

**RANK 2 - MODE 24 EFFECT - Color Chase 7 CH**

DMX Channel 8 - 14, the value and function is same as RANK 1

**RANK 3 - MODE 24 EFFECT - Color Chase 7 CH**

DMX Channel 15 - 21, the value and function is same as RANK 1

**RANK 1 - MODE 24 EFFECT - Fireworks 7 CH**

| DMX Channel | DMX Value | Range | Function |
|-------------|-----------|-------|----------|
|-------------|-----------|-------|----------|

|   |   |  |  |
|---|---|--|--|
| 1 | 0-51<br>51-102<br>102-153<br>153-204<br>204-255 | 0-20%<br>20-40%<br>40-60%<br>60-80%<br>80-100% | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392     |
| 2 | 027-039   |  | <b>Fireworks</b>   |
| 3 | 0-255   | 0-360  | <b>HUE Start</b><br>Formular: HUE = DMX_value *1.4118                  |
| 4 | 0-255   | 0-360  | <b>HUE Stop</b><br>Formular: HUE = DMX_value *1.4118                   |
| 5 | 0-255   | 0-100%   | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
| 6 | 0-255   | 0-60   | <b>Explosion/min</b><br>Formular: speed = dmx_value/4.25               |
| 7 | 0-255   | 5-95   | <b>Duration</b><br>Formular: duty = 5+DMX_value *0.353                 |

**RANK 2 - MODE 24 EFFECT - Fireworks 7 CH**

DMX Channel 8 - 14, the value and function is same as RANK 1

**RANK 3 - MODE 24 EFFECT - Fireworks 7 CH**

DMX Channel 15 - 21, the value and function is same as RANK 1

**RANK 1 - MODE 24 EFFECT - Fire 4 CH**

| DMX Channel | DMX Value                                       | Range  | Function   |
|-------------|---|--|--|
| 1           | 0-51<br>51-102<br>102-153<br>153-204<br>204-255 | 0-20%<br>20-40%<br>40-60%<br>60-80%<br>80-100% | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
| 2           | 040-052   |  | <b>Fire</b>  |
| 3           | 0-255   | 0-100  | <b>Wind Speed</b><br>Formular: per = DMX_value *0.392              |
| 4           | 0-49  | 0-49   | <b>Fire Type: Candle</b>   |
|             | 50-99   | 50-99  | <b>Fire Type: Campfire</b>   |
|             | 100-149   | 100-149  | <b>Fire Type: bonfire</b>  |

**RANK 1 - MODE 24 EFFECT - Fire 4 CH**

DMX Channel 5 - 8, the value and function is same as RANK 1

**RANK 1 - MODE 24 EFFECT - Fire 4 CH**

DMX Channel 9 - 12, the value and function is same as RANK 1

**RANK 1 - MODE 24 EFFECT - Explosion 5 CH**

| DMX Channel | DMX Value                                       | Range  | Function   |
|-------------|---|--|--|
| 1           | 0-51<br>51-102<br>102-153<br>153-204<br>204-255 | 0-20%<br>20-40%<br>40-60%<br>60-80%<br>80-100% | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |

|   |         |         |   |
|---|---------|---------|---|
| 2 | 053-065 |         | <b>Explosion</b>  |
| 3 | 0-255   | 0-60    | <b>Explosion/min</b><br>Formular: speed = DMX_value /4.25 |
| 4 | 0-255   | 5-95    | <b>Duration</b><br>Formular: duty = 5 + DMX_value *0.353  |
| 5 | 0-49    | 0-49    | Fire Type: Warm   |
|   | 50-99   | 50-99   | <b>Fire Type: Cool</b>                                    |
|   | 100-149 | 100-149 | <b>Fire Type: Colors</b>                                  |

**RANK 2 - MODE 24 EFFECT - Explosion 5 CH**

DMX Channel 6 - 10, the value and function is same as RANK 1

**RANK 3 - MODE 24 EFFECT - Explosion 5 CH**

DMX Channel 11 - 15, the value and function is same as RANK 1

**RANK 1 - MODE 24 EFFECT - Lightning 5 CH**

| DMX Channel | DMX Value   | Range              | Function  |
|-------------|-------------|--------------------|---|
| 1           | 0-51        | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392  |
|             | 51-102      | 20-40%             |   |
|             | 102-153     | 40-60%             |   |
|             | 153-204     | 60-80%             |   |
|             | 204-255     | 80-100%            |   |
| 2           | 50-59       |                    | <b>Lightning</b>  |
| 3           | 0-255       | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature =<br>2700+DMX_value *28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
| 4           | 0-20        | 0%                 | <b>Green / Magenta</b>  |
|             | 21-30       | Full Magenta(100%) |   |
|             | 31-129      | Magenta(99%-1%)    |   |
|             | 130-140     | 0%                 |   |
|             | 141-240     | Green(1%-99%)      |   |
| 241-255     | Green(100%) |                    |   |
| 5           | 0-255       | 1-60               | <b>Intervals (Second)</b><br>Formular: time = DMX_value /4.25   |

**RANK 2 - MODE 24 EFFECT - Lightning 5 CH**

DMX Channel 6 - 10, the value and function is same as RANK 1

**RANK 3 - MODE 24 EFFECT - Lightning 5 CH**

DMX Channel 11 - 15, the value and function is same as RANK 1

**RANK 1 - MODE 24 EFFECT - Paparazzi 6 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |
| 2           | 078-090   |         | <b>Paparazzi</b>   |

|   |         |                    |   |
|---|---------|--------------------|---|
| 3 | 0-255   | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+<br>DMX_value*28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
| 4 | 0-20    | 0%                 | <b>Green / Magenta</b>  |
|   | 21-30   | Full Magenta(100%) |   |
|   | 31-129  | Magenta(99%-1%)    |   |
|   | 130-140 | 0%                 |   |
|   | 141-240 | Green(1%-99%)      |   |
|   | 241-255 | Green(100%)        |   |
| 5 | 0-255   | 0-25Hz             | <b>Frequency</b><br>Formular: frequency = DMX_value /10.2   |
| 6 | 0-49    | 0-49               | <b>Bulb Type:</b> Slow  |
|   | 50-99   | 50-99              | <b>Bulb Type:</b> Medium  |
|   | 100-149 | 100-149            | <b>Bulb Type:</b> Fast  |
|   | 150-199 | 150-199            | <b>Bulb Type:</b> Modern  |

**RANK 2 - MODE 24 EFFECT - Paparazzi 6 CH**

DMX Channel 7 - 12, the value and function is same as RANK 1

**RANK 3 - MODE 24 EFFECT - Paparazzi 6 CH**

DMX Channel 13 - 18, the value and function is same as RANK 1

**RANK 1 - MODE 24 EFFECT - Pulse 5 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392     |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |
| 2           | 091-103   |         | <b>Pulse</b>   |
| 3           | 0-255     | 0-360   | <b>HUE</b><br>Formular: HUE = DMX_value *1.4118                        |
| 4           | 0-255     | 0-100%  | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
| 5           | 0-255     | 1-200   | <b>Pulses/min</b><br>Formular: frequency = 1+DMX_value / 1.281         |

**RANK 2 - MODE 24 EFFECT - Pulse 5 CH**

DMX Channel 6 - 10, the value and function is same as RANK 1

**RANK 3 - MODE 24 EFFECT - Pulse 5 CH**

DMX Channel 11 - 15, the value and function is same as RANK 1

**RANK 1 - MODE 24 EFFECT - Police 6 CH**

| DMX Channel | DMX Value | Range | Function |
|-------------|-----------|-------|----------|
|-------------|-----------|-------|----------|

|   |   |  |  |
|---|---|--|--|
| 1 | 0-51<br>51-102<br>102-153<br>153-204<br>204-255 | 0-20%<br>20-40%<br>40-60%<br>60-80%<br>80-100% | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
| 2 | 104-116   |  | <b>Police</b>  |
| 3 | 0-9   | 0-9  | <b>Colors:</b> Red, Blue & White                                   |
|   | 10-19   | 10-19  | <b>Colors:</b> Red & Blue  |
|   | 20-29   | 20-29  | <b>Colors:</b> Red & White   |
|   | 30-39   | 30-39  | <b>Colors:</b> Blue & White  |
|   | 40-49   | 40-49  | <b>Colors:</b> Blue  |
|   | 50-59   | 50-59  | <b>Colors:</b> Red   |
| 4 | 60-69   | 60-69  | <b>Colors:</b> Amber   |
|   | 0-49  | 0-49   | <b>Flash/cycle:</b> 1  |
|   | 50-99   | 50-99  | <b>Flash/cycle:</b> 2  |
|   | 100-149   | 100-149  | <b>Flash/cycle:</b> 3  |
| 5 | 150-199   | 150-199  | <b>Flash/cycle:</b> 4  |
|   | 0-255   | 0-100  | <b>Speed</b><br>Formular: per = DMX_value *0.392                   |
| 6 | 0-255   | 5-95   | <b>Duration</b><br>Formular: duty = 5+ DMX_value *0.353            |

**RANK 2 - MODE 24 EFFECT - Police 6 CH**

DMX Channel 7 - 12, the value and function is same as RANK 1

**RANK 3 - MODE 24 EFFECT - Police 6 CH**

DMX Channel 13 - 18, the value and function is same as RANK 1

**RANK 1 - MODE 24 EFFECT - Strobe Color 6 CH**

| DMX Channel | DMX Value                                       | Range  | Function   |
|-------------|---|--|--|
| 1           | 0-51<br>51-102<br>102-153<br>153-204<br>204-255 | 0-20%<br>20-40%<br>40-60%<br>60-80%<br>80-100% | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392     |
| 2           | 117-128   |  | <b>Strobe Color</b>  |
| 3           | 0-255   | 0-360  | <b>HUE</b><br>Formular: HUE = DMX_value *1.4118                        |
| 4           | 0-255   | 0-100  | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
| 5           | 0-255   | 0-25Hz   | <b>Frequency</b><br>Formular: Frequency = DMX_value /10.2              |
| 6           | 0-255   | 5-95   | <b>Duration</b><br>Formular: duty = 5+ DMX_value *0.353                |

**RANK 2 - MODE 24 EFFECT - Strobe Color 6 CH**

DMX Channel 7 - 12, the value and function is same as RANK 1

**RANK 3 - MODE 24 EFFECT - Strobe Color 6 CH**

DMX Channel 13 - 18, the value and function is same as RANK 1



| RANK 1 - MODE 24 EFFECT - Strobe CCT 6 CH |             |                    |   |
|---|-------------|--------------------|---|
| DMX Channel                               | DMX Value   | Range              | Function  |
| 1   | 0-51        | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392  |
|   | 51-102      | 20-40%             |   |
|   | 102-153     | 40-60%             |   |
|   | 153-204     | 60-80%             |   |
|   | 204-255     | 80-100%            |   |
| 2   | 129-141     |                    | <b>Strobe CCT</b>   |
| 3   | 0-255       | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature =<br>2700+DMX_value *28.627<br>Example: 17 -> 3200K<br>101-> 5600K<br>185-> 8000K<br>255-> 10000K |
| 4   | 0-20        | 0%                 | <b>Green / Magenta</b>  |
|   | 21-30       | Full Magenta(100%) |   |
|   | 31-129      | Magenta(99%-1%)    |   |
|   | 130-140     | 0%                 |   |
|   | 141-240     | Green(1%-99%)      |   |
| 241-255                                   | Green(100%) |                    |   |
| 5   | 0-255       | 0-25Hz             | <b>Frequency</b><br>Formular: frequency = DMX_value /10.2   |
| 6   | 0-255       | 5-95               | <b>Duration</b><br>Formular: duty = 5+ DMX_value *0.353   |

**RANK 2 - MODE 24 EFFECT - Strobe CCT 6 CH**  
DMX Channel 7 - 12, the value and function is same as RANK 1

**RANK 3 - MODE 24 EFFECT - Strobe CCT 6 CH**  
DMX Channel 13 - 18, the value and function is same as RANK 1

| RANK 1 - MODE 25 Macro - 2 CH |           |         |  |
|-------------------------------|-----------|---------|--|
| DMX Channel                   | DMX Value | Range   | Function   |
| 1                             | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|                               | 51-102    | 20-40%  |  |
|                               | 102-153   | 40-60%  |  |
|                               | 153-204   | 60-80%  |  |
|                               | 204-255   | 80-100% |  |
| 2                             | 0-46      | 0-46    | Pls check: Appendix I Macro  |

**RANK 2 - MODE 25 Macro - 2 CH**  
DMX Channel 3 - 4, the value and function is same as RANK 1

**RANK 3 - MODE 25 Macro - 2 CH**  
DMX Channel 5 - 6, the value and function is same as RANK 1

**INDIVIDUAL MODE (LIGHT 1 - 9)**

| LIGHT 1 - MODE 1 CCT 8 Bit - 3 CH |           |       |          |
|-----------------------------------|-----------|-------|----------|
| DMX Channel                       | DMX Value | Range | Function |

|   |   |  |   |
|---|---|--|---|
| 1 | 0-51<br>51-102<br>102-153<br>153-204<br>204-255 | 0-20%<br>20-40%<br>40-60%<br>60-80%<br>80-100% | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392  |
| 2 | 0-255   | 2700-10000K                                    | <b>Color Temperature</b><br>Closed - Open<br><br>Formular:<br>Color Temperature =<br>2700+DMX_value *28.627<br><br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
| 3 | 0-20  | 0  | <b>Green / Magenta</b>  |
|   | 21-30   | Full Magenta(100%)                             |   |
|   | 30-130  | Magenta(99%-1%)                                |   |
|   | 130-140   | 0%   |   |
|   | 141-240   | Green(1%-99%)                                  |   |
|   | 241-255   | Green(100%)                                    |   |

**LIGHT 2 - MODE 1 CCT 8 Bit - 3 CH**

DMX Channel 4 - 6, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 1 CCT 8 Bit - 3 CH**

DMX Channel 7 - 9, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 1 CCT 8 Bit - 3 CH**

DMX Channel 10 - 12, the value and function is same as LIGHT 1

**LIGHT 5 - MODE 1 CCT 8 Bit - 3 CH**

DMX Channel 13 - 15, the value and function is same as LIGHT 1

**LIGHT 6 - MODE 1 CCT 8 Bit - 3 CH**

DMX Channel 16 - 18, the value and function is same as LIGHT 1

**LIGHT 7 - MODE 1 CCT 8 Bit - 3 CH**

DMX Channel 19 - 21, the value and function is same as LIGHT 1

**LIGHT 8 - MODE 1 CCT 8 Bit - 3 CH**

DMX Channel 22 - 24, the value and function is same as LIGHT 1

**LIGHT 9 - MODE 1 CCT 8 Bit - 3 CH**

DMX Channel 25 - 27, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 2 CCT 16 Bit - 6 CH**

| DMX Channel | DMX Value   | Range              | Function                 |
|-------------|-------------|--------------------|--------------------------|
| 1           | 0-65535     | 0-100%             | <b>Dimmer</b>            |
| 2           |             |                    | Closed - Open            |
| 3           | 0-65535     | 2700-10000K        | <b>Color Temperature</b> |
| 4           |             |                    | Closed - Open            |
| 5           | 0-5000      | 0%                 | <b>Green / Magenta</b>   |
|             | 5001-10000  | Full Magenta(100%) |                          |
|             | 10001-29999 | Magenta(99%-1%)    |                          |
| 6           | 30000-40000 | 0%                 |                          |
|             | 40001-59999 | Green(1%-99%)      |                          |

60000-65535

Green(100%)

**LIGHT 2 - MODE 2 CCT 16 Bit - 6 CH**

DMX Channel 7 - 12, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 2 CCT 16 Bit - 6 CH**

DMX Channel 13 - 18, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 2 CCT 16 Bit - 6 CH**

DMX Channel 19 - 24, the value and function is same as LIGHT 1

**LIGHT 5 - MODE 2 CCT 16 Bit - 6 CH**

DMX Channel 25 - 30, the value and function is same as LIGHT 1

**LIGHT 6 - MODE 2 CCT 16 Bit - 6 CH**

DMX Channel 31 - 36, the value and function is same as LIGHT 1

**LIGHT 7 - MODE 2 CCT 16 Bit - 6 CH**

DMX Channel 37 - 42, the value and function is same as LIGHT 1

**LIGHT 8 - MODE 2 CCT 16 Bit - 6 CH**

DMX Channel 43 - 48, the value and function is same as LIGHT 1

**LIGHT 9 - MODE 2 CCT 16 Bit - 6 CH**

DMX Channel 49 - 54, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 3 HSI 8 Bit - 3 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392     |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |
| 2           | 0-255     | 0-360   | <b>Hue</b><br>Closed - Open<br>Formular: HUE = DMX_value *1.4118       |
| 3           | 0-255     | 0-100%  | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |

**LIGHT 2 - MODE 3 HSI 8 Bit - 3 CH**

DMX Channel 4 - 6, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 3 HSI 8 Bit - 3 CH**

DMX Channel 7 - 9, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 3 HSI 8 Bit - 3 CH**

DMX Channel 10 - 12, the value and function is same as LIGHT 1

**LIGHT 5 - MODE 3 HSI 8 Bit - 3 CH**

DMX Channel 13 - 15, the value and function is same as LIGHT 1

**LIGHT 6 - MODE 3 HSI 8 Bit - 3 CH**

DMX Channel 16 - 18, the value and function is same as LIGHT 1

**LIGHT 7 - MODE 3 HSI 8 Bit - 3 CH**

DMX Channel 19 - 21, the value and function is same as LIGHT 1

**LIGHT 8 - MODE 3 HSI 8 Bit - 3 CH**

DMX Channel 22 - 24, the value and function is same as LIGHT 1

**LIGHT 9 - MODE 3 HSI 8 Bit - 3 CH**

DMX Channel 25 - 27, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 4 HSI 16 Bit - 6 CH**

| DMX Channel | DMX Value | Range  | Function                           |
|-------------|-----------|--------|------------------------------------|
| 1           | 0-65535   | 0-100% | <b>Dimmer</b><br>Closed - Open     |
| 2           |           |        |                                    |
| 3           | 0-65535   | 0-360  | <b>Hue</b><br>Closed - Open        |
| 4           |           |        |                                    |
| 5           | 0-65535   | 0-100% | <b>Saturation</b><br>Closed - Open |
| 6           |           |        |                                    |

**LIGHT 2 - MODE 4 HSI 16 Bit - 6 CH**

DMX Channel 7 - 12, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 4 HSI 16 Bit - 6 CH**

DMX Channel 13 - 18, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 4 HSI 16 Bit - 6 CH**

DMX Channel 19 - 24, the value and function is same as LIGHT 1

**LIGHT 5 - MODE 4 HSI 16 Bit - 6 CH**

DMX Channel 25 - 30, the value and function is same as LIGHT 1

**LIGHT 6 - MODE 4 HSI 16 Bit - 6 CH**

DMX Channel 31 - 36, the value and function is same as LIGHT 1

**LIGHT 7 - MODE 4 HSI 16 Bit - 6 CH**

DMX Channel 37 - 42, the value and function is same as LIGHT 1

**LIGHT 8 - MODE 4 HSI 16 Bit - 6 CH**

DMX Channel 43 - 48, the value and function is same as LIGHT 1

**LIGHT 9 - MODE 4 HSI 16 Bit - 6 CH**

DMX Channel 49 - 54, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 5 XY 8 Bit - 3 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |
| 2           | 0-255     | X*255   | <b>X Coordinate</b><br>Formular: X = DMX_value /255                |
| 3           | 0-255     | Y*255   | <b>Y Coordinate</b><br>Formular: Y = DMX_value /255                |

**LIGHT 2 - MODE 5 XY 8 Bit - 3 CH**

DMX Channel 4 - 6, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 5 XY 8 Bit - 3 CH**

DMX Channel 7 - 9, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 5 XY 8 Bit - 3 CH**

DMX Channel 10 - 12, the value and function is same as LIGHT 1

**LIGHT 5 - MODE 5 XY 8 Bit - 3 CH**

DMX Channel 13 - 15, the value and function is same as LIGHT 1

**LIGHT 6 - MODE 5 XY 8 Bit - 3 CH**

DMX Channel 16 - 18, the value and function is same as LIGHT 1

**LIGHT 7 - MODE 5 XY 8 Bit - 3 CH**

DMX Channel 19 - 21, the value and function is same as LIGHT 1

**LIGHT 8 - MODE 5 XY 8 Bit - 3 CH**

DMX Channel 22 - 24, the value and function is same as LIGHT 1

**LIGHT 9 - MODE 5 XY 8 Bit - 3 CH**

DMX Channel 25 - 27, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 6 XY 16 Bit - 6 CH**

| DMX Channel | DMX Value | Range   | Function  |
|-------------|-----------|---------|---|
| 1           | 0-65535   | 0-100%  | <b>Dimmer</b><br>Closed – Open                        |
| 2           |           |         |   |
| 3           | 0-65535   | X*65535 | <b>X Coordinate</b><br>Formular: X = DMX value /65535 |
| 4           |           |         |   |
| 5           | 0-65535   | Y*65535 | <b>Y Coordinate</b><br>Formular: Y = DMX value /65535 |
| 6           |           |         |   |

**LIGHT 2 - MODE 6 XY 16 Bit - 6 CH**

DMX Channel 7 - 12, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 6 XY 16 Bit - 6 CH**

DMX Channel 13 - 18, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 6 XY 16 Bit - 6 CH**

DMX Channel 19 - 24, the value and function is same as LIGHT 1

**LIGHT 5 - MODE 6 XY 16 Bit - 6 CH**

DMX Channel 25 - 30, the value and function is same as LIGHT 1

**LIGHT 6 - MODE 6 XY 16 Bit - 6 CH**

DMX Channel 31 - 36, the value and function is same as LIGHT 1

**LIGHT 7 - MODE 6 XY 16 Bit - 6 CH**

DMX Channel 37 - 42, the value and function is same as LIGHT 1

**LIGHT 8 - MODE 6 XY 16 Bit - 6 CH**

DMX Channel 43 - 48, the value and function is same as LIGHT 1

**LIGHT 9 - MODE 6 XY 16 Bit - 6 CH**

DMX Channel 49 - 54, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 7 RGBWW 8 Bit - 6 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |
| 2           | 0-255     | 0-100%  | <b>Red</b><br>Formular: per = DMX_value *0.392                     |

|   |       |        |   |
|---|-------|--------|---|
| 3 | 0-255 | 0-100% | <b>Green</b><br>Formular: per = DMX_value *0.392      |
| 4 | 0-255 | 0-100% | <b>Blue</b><br>Formular: per = DMX_value *0.392       |
| 5 | 0-255 | 0-100% | <b>Warm White</b><br>Formular: per = DMX_value *0.392 |
| 6 | 0-255 | 0-100% | <b>Cool White</b><br>Formular: per = DMX_value *0.392 |

**LIGHT 2 - MODE 7 RGBWW 8 Bit - 6 CH**

DMX Channel 7 - 12, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 7 RGBWW 8 Bit - 6 CH**

DMX Channel 13 - 18, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 7 RGBWW 8 Bit - 6 CH**

DMX Channel 19 - 24, the value and function is same as LIGHT 1

**LIGHT 5 - MODE 7 RGBWW 8 Bit - 6 CH**

DMX Channel 25 - 30, the value and function is same as LIGHT 1

**LIGHT 6 - MODE 7 RGBWW 8 Bit - 6 CH**

DMX Channel 31 - 36, the value and function is same as LIGHT 1

**LIGHT 7 - MODE 7 RGBWW 8 Bit - 6 CH**

DMX Channel 37 - 42, the value and function is same as LIGHT 1

**LIGHT 8 - MODE 7 RGBWW 8 Bit - 6 CH**

DMX Channel 43 - 48, the value and function is same as LIGHT 1

**LIGHT 9 - MODE 7 RGBWW 8 Bit - 6 CH**

DMX Channel 49 - 54, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 8 RGBWW 16 Bit - 12 CH**

| DMX Channel | DMX Value | Range  | Function                                       |
|-------------|-----------|--------|--|
| 1           | 0-65535   | 0-100% | <b>Dimmer</b><br>Closed - Open                 |
| 2           |           |        |  |
| 3           | 0-65535   | 0-100% | <b>Red</b><br>Formular: per = DMX_value        |
| 4           |           |        |  |
| 5           | 0-65535   | 0-100% | <b>Green</b><br>Formular: per = DMX_value      |
| 6           |           |        |  |
| 7           | 0-65535   | 0-100% | <b>Blue</b><br>Formular: per = DMX_value       |
| 8           |           |        |  |
| 9           | 0-65535   | 0-100% | <b>Warm White</b><br>Formular: per = DMX_value |
| 10          |           |        |  |
| 11          | 0-65535   | 0-100% | <b>Cool White</b><br>Formular: per = DMX_value |
| 12          |           |        |  |

**LIGHT 2 - MODE 8 RGBWW 16 Bit - 12 CH**

DMX Channel 13 - 24, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 8 RGBWW 16 Bit - 12 CH**

DMX Channel 25 - 36, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 8 RGBWW 16 Bit - 12 CH**

DMX Channel 37 - 48, the value and function is same as LIGHT 1

**LIGHT 5 - MODE 8 RGBWW 16 Bit - 12 CH**

DMX Channel 49 - 60, the value and function is same as LIGHT 1

**LIGHT 6 - MODE 8 RGBWW 16 Bit - 12 CH**

DMX Channel 61 - 72, the value and function is same as LIGHT 1

**LIGHT 7 - MODE 8 RGBWW 16 Bit - 12 CH**

DMX Channel 73 - 84, the value and function is same as LIGHT 1

**LIGHT 8 - MODE 8 RGBWW 16 Bit - 12 CH**

DMX Channel 85 - 96, the value and function is same as LIGHT 1

**LIGHT 9 - MODE 8 RGBWW 16 Bit - 12 CH**

DMX Channel 97 - 108, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 9 GEL 8 Bit - 4 CH**

| DMX Channel | DMX Value | Range    | Function   |
|-------------|-----------|----------|--|
| 1           | 0-51      | 0-20%    | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|             | 51-102    | 20-40%   |  |
|             | 102-153   | 40-60%   |  |
|             | 153-204   | 60-80%   |  |
|             | 204-255   | 80-100%  |  |
| 2           | 0-127     | 3200K    | <b>3200K</b>   |
|             | 128-255   | 5600K    | <b>5600K</b>   |
| 3           | 0-127     | Group I  | <b>Select Group I</b>  |
|             | 128-255   | Group II | <b>Select Group II</b>   |
| 4           | 0-121     | 1-122    | <b>GEL Filter Number in Group I</b>                                |
|             | 0-190     | 123-313  | <b>GEL Filter Number in Group II</b>                               |

**LIGHT 2 - MODE 9 GEL 8 Bit - 4 CH**

DMX Channel 5 - 8, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 9 GEL 8 Bit - 4 CH**

DMX Channel 9 - 12, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 9 GEL 8 Bit - 4 CH**

DMX Channel 13 - 16, the value and function is same as LIGHT 1

**LIGHT 5 - MODE 9 GEL 8 Bit - 4 CH**

DMX Channel 17 - 20, the value and function is same as LIGHT 1

**LIGHT 6 - MODE 9 GEL 8 Bit - 4 CH**

DMX Channel 21 - 24, the value and function is same as LIGHT 1

**LIGHT 7 - MODE 9 GEL 8 Bit - 4 CH**

DMX Channel 25 - 28, the value and function is same as LIGHT 1

**LIGHT 8 - MODE 9 GEL 8 Bit - 4 CH**

DMX Channel 29 - 32, the value and function is same as LIGHT 1

**LIGHT 9 - MODE 9 GEL 8 Bit - 4 CH**

DMX Channel 33 - 36, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 10 CT+RGBWW 8 Bit - 9 CH**

| DMX Channel | DMX Value | Range | Function |
|-------------|-----------|-------|----------|
|-------------|-----------|-------|----------|

|         |   |  |   |
|---------|---|--|---|
| 1       | 0-51<br>51-102<br>102-153<br>153-204<br>204-255 | 0-20%<br>20-40%<br>40-60%<br>60-80%<br>80-100% | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392  |
| 2       | 0-255   | 2700-10000K                                    | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature =<br>2700+DMX_value *28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
| 3       | 0-20  | 0%   | <b>Green / Magenta</b>  |
|         | 21-30   | Full Magenta(100%)                             |   |
|         | 31-129  | Magenta(99%-1%)                                |   |
|         | 130-140   | 0%   |   |
|         | 141-240   | Green(1%-99%)                                  |   |
| 241-255 | Green(100%)                                     |  |   |
| 4       | 0-255   | 0-100%   | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW,<br>smooth fade  |
| 5       | 0-255   | 0-100%   | <b>Red</b><br>Formular: per = DMX_value *0.392  |
| 6       | 0-255   | 0-100%   | <b>Green</b><br>Formular: per = DMX_value *0.392  |
| 7       | 0-255   | 0-100%   | <b>Blue</b><br>Formular: per = DMX_value *0.392   |
| 8       | 0-255   | 0-100%   | <b>Warm White</b><br>Formular: per = DMX_value *0.392   |
| 9       | 0-255   | 0-100%   | <b>Cool White</b><br>Formular: per = DMX_value *0.392   |

**LIGHT 2 - MODE 10 CT+RGBWW 8 Bit - 9 CH**

DMX Channel 10 - 18, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 10 CT+RGBWW 8 Bit - 9 CH**

DMX Channel 19 - 27, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 10 CT+RGBWW 8 Bit - 9 CH**

DMX Channel 28 - 36, the value and function is same as LIGHT 1

**LIGHT 5 - MODE 10 CT+RGBWW 8 Bit - 9 CH**

DMX Channel 37 - 45, the value and function is same as LIGHT 1

**LIGHT 6 - MODE 10 CT+RGBWW 8 Bit - 9 CH**

DMX Channel 46 -54, the value and function is same as LIGHT 1

**LIGHT 7 - MODE 10 CT+RGBWW 8 Bit - 9 CH**

DMX Channel 55 - 63, the value and function is same as LIGHT 1

**LIGHT 8 - MODE 10 CT+RGBWW 8 Bit - 9 CH**



DMX Channel 64 - 72, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 11 T+RGBWW 16 Bit - 18 CH**

| DMX Channel | DMX Value   | Range              | Function  |
|-------------|-------------|--------------------|---|
| 1           | 0-65535     | 0-100%             | <b>Dimmer</b><br>Closed - Open                    |
| 2           |             |                    |   |
| 3           |             |                    |   |
| 4           | 0-65535     | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open         |
| 5           |             |                    |   |
| 5           | 0-5000      | 0%                 | <b>Green / Magenta</b>                            |
|             | 5001-10000  | Full Magenta(100%) |   |
|             | 10001-29999 | Magenta(99%-1%)    |   |
| 6           | 30000-40000 | 0%                 |   |
|             | 40001-59999 | Green(1%-99%)      |   |
|             | 60000-65535 | Green(100%)        |   |
| 7           | 0-65535     | 0-100%             | <b>Crossfade</b><br>0 full CCT, 65535 full RGBWW, |
| 8           |             |                    |   |
| 9           | 0-65535     | 0-100%             | <b>Red</b><br>Formular: per = DMX value           |
| 10          |             |                    |   |
| 11          | 0-65535     | 0-100%             | <b>Green</b><br>Formular: per = DMX value         |
| 12          |             |                    |   |
| 13          | 0-65535     | 0-100%             | <b>Blue</b><br>Formular: per = DMX value          |
| 14          |             |                    |   |
| 15          | 0-65535     | 0-100%             | <b>Warm White</b><br>Formular: per = DMX value    |
| 16          |             |                    |   |
| 17          | 0-65535     | 0-100%             | <b>Cool White</b><br>Formular: per = DMX value    |
| 18          |             |                    |   |

**LIGHT 2 - MODE 11 T+RGBWW 16 Bit - 18 CH**

DMX Channel 19 - 36, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 11 T+RGBWW 16 Bit - 18 CH**

DMX Channel 37 - 54, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 11 T+RGBWW 16 Bit - 18 CH**

DMX Channel 55 - 72, the value and function is same as LIGHT 1

**LIGHT 5 - MODE 11 T+RGBWW 16 Bit - 18 CH**

DMX Channel 73 - 90, the value and function is same as LIGHT 1

**LIGHT 6 - MODE 11 T+RGBWW 16 Bit - 18 CH**

DMX Channel 91 - 108, the value and function is same as LIGHT 1

**LIGHT 7 - MODE 11 T+RGBWW 16 Bit - 18 CH**

DMX Channel 109 - 126, the value and function is same as LIGHT 1

**LIGHT 8 - MODE 11 T+RGBWW 16 Bit - 18 CH**

DMX Channel 127 - 144, the value and function is same as LIGHT 1

**LIGHT 9 - MODE 11 T+RGBWW 16 Bit - 18 CH**

DMX Channel 145 - 162, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 12 CCT+HSI 8 Bit - 6 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |

|   |         |                    |  |
|---|---------|--------------------|--|
| 2 | 0-255   | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature =<br>$2700 + \text{DMX\_value} * 28.627$<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
| 3 | 0-20    | 0%                 | <b>Green / Magenta</b>   |
|   | 21-30   | Full Magenta(100%) |  |
|   | 31-129  | Magenta(99%-1%)    |  |
|   | 130-140 | 0%                 |  |
|   | 141-240 | Green(1%-99%)      |  |
|   | 241-255 | Green(100%)        |  |
| 4 | 0-255   | 0-100%             | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW,<br>smooth fade   |
| 5 | 0-255   | 0-360              | <b>HUE</b><br>Formular: $\text{HUE} = \text{DMX\_value} * 1.4118$  |
| 6 | 0-255   | 0-100%             | <b>Saturation</b><br>Closed - Open<br>Formular: $\text{per} = \text{DMX\_value} * 0.392$   |

**LIGHT 2 - MODE 12 CCT+HSI 8 Bit - 6 CH**

DMX Channel 7 - 12, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 12 CCT+HSI 8 Bit - 6 CH**

DMX Channel 13 - 18, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 12 CCT+HSI 8 Bit - 6 CH**

DMX Channel 19 - 24, the value and function is same as LIGHT 1

**LIGHT 5 - MODE 12 CCT+HSI 8 Bit - 6 CH**

DMX Channel 25 - 30, the value and function is same as LIGHT 1

**LIGHT 6 - MODE 12 CCT+HSI 8 Bit - 6 CH**

DMX Channel 31 - 36, the value and function is same as LIGHT 1

**LIGHT 7 - MODE 12 CCT+HSI 8 Bit - 6 CH**

DMX Channel 37 - 42, the value and function is same as LIGHT 1

**LIGHT 8 - MODE 12 CCT+HSI 8 Bit - 6 CH**

DMX Channel 43 - 48, the value and function is same as LIGHT 1

**LIGHT 9 - MODE 12 CCT+HSI 8 Bit - 6 CH**

DMX Channel 49 - 54, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 13 CCT+HSI 16 Bit - 12 CH**

| DMX Channel | DMX Value  | Range              | Function                                  |
|-------------|------------|--------------------|---|
| 1           | 0-65535    | 0-100%             | <b>Dimmer</b><br>Closed - Open            |
| 2           |            |                    |   |
| 3           | 0-65535    | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open |
| 4           |            |                    |   |
| 5           | 0-5000     | 0%                 |   |
|             | 5001-10000 | Full Magenta(100%) |   |

|    |             |                 |                               |
|----|-------------|-----------------|-------------------------------|
|    | 10001-29999 | Magenta(99%-1%) | <b>Green / Magenta</b>        |
| 6  | 30000-40000 | 0%              |                               |
|    | 40001-59999 | Green(1%-99%)   |                               |
|    | 60000-65535 | Green(100%)     |                               |
| 7  | 0-65535     | 0-100%          | <b>Crossfade</b>              |
| 8  |             |                 | 0 full CCT, 65535 full RGBWW, |
| 9  |             |                 | <b>HUE</b>                    |
| 10 |             |                 | Formular: HUE = DMX_value     |
| 11 |             |                 | <b>Saturation</b>             |
| 12 | 0-65535     | 0-100%          | Closed - Open                 |

**LIGHT 2 - MODE 13 CCT+HSI 16 Bit - 12 CH**

DMX Channel 13 - 24, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 13 CCT+HSI 16 Bit - 12 CH**

DMX Channel 25 - 36, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 13 CCT+HSI 16 Bit - 12 CH**

DMX Channel 37 - 48, the value and function is same as LIGHT 1

**LIGHT 5 - MODE 13 CCT+HSI 16 Bit - 12 CH**

DMX Channel 49 - 60, the value and function is same as LIGHT 1

**LIGHT 6 - MODE 13 CCT+HSI 16 Bit - 12 CH**

DMX Channel 61 - 72, the value and function is same as LIGHT 1

**LIGHT 7 - MODE 13 CCT+HSI 16 Bit - 12 CH**

DMX Channel 73 - 84, the value and function is same as LIGHT 1

**LIGHT 8 - MODE 13 CCT+HSI 16 Bit - 12 CH**

DMX Channel 85 - 96, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 14 CCT+XY 8 Bit - 6 CH**

| DMX Channel | DMX Value   | Range              | Function  |
|-------------|-------------|--------------------|---|
| 1           | 0-51        | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392  |
|             | 51-102      | 20-40%             |   |
|             | 102-153     | 40-60%             |   |
|             | 153-204     | 60-80%             |   |
|             | 204-255     | 80-100%            |   |
| 2           | 0-255       | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature =<br>2700+DMX_value *28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
| 3           | 0-20        | 0%                 | <b>Green / Magenta</b>  |
|             | 21-30       | Full Magenta(100%) |   |
|             | 31-129      | Magenta(99%-1%)    |   |
|             | 130-140     | 0%                 |   |
|             | 141-240     | Green(1%-99%)      |   |
| 241-255     | Green(100%) |                    |   |
| 4           | 0-255       | 0-100%             | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW,<br>smooth fade  |

|   |       |       |   |
|---|-------|-------|---|
| 5 | 0-255 | X*255 | <b>X Coordinate</b><br>Formular: X = DMX_value /255 |
| 6 | 0-255 | Y*255 | <b>Y Coordinate</b><br>Formular: Y = DMX_value /255 |

**LIGHT 2 - MODE 14 CCT+XY 8 Bit - 6 CH**

DMX Channel 7 - 12, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 14 CCT+XY 8 Bit - 6 CH**

DMX Channel 13 - 18, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 14 CCT+XY 8 Bit - 6 CH**

DMX Channel 19 - 24, the value and function is same as LIGHT 1

**LIGHT 5 - MODE 14 CCT+XY 8 Bit - 6 CH**

DMX Channel 25 - 30, the value and function is same as LIGHT 1

**LIGHT 6 - MODE 14 CCT+XY 8 Bit - 6 CH**

DMX Channel 31 - 36, the value and function is same as LIGHT 1

**LIGHT 7 - MODE 14 CCT+XY 8 Bit - 6 CH**

DMX Channel 37 - 42, the value and function is same as LIGHT 1

**LIGHT 8 - MODE 14 CCT+XY 8 Bit - 6 CH**

DMX Channel 43 - 48, the value and function is same as LIGHT 1

**LIGHT 9 - MODE 14 CCT+XY 8 Bit - 6 CH**

DMX Channel 49 - 54, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 15 CCT+XY 16 Bit - 12 CH**

| DMX Channel | DMX Value   | Range       | Function  |
|-------------|-------------|-------------|---|
| 1           | 0-65535     | 0-100%      | <b>Dimmer</b><br>Closed - Open                        |
| 2           |             |             |   |
| 3           | 0-65535     | 2700-10000K | <b>Color Temperature</b><br>Closed - Open             |
| 4           |             |             |   |
| 5           | 0-5000      | 0-100%      | <b>Green / Magenta</b>                                |
|             | 5001-10000  | 0-100%      |   |
|             | 10001-29999 | 0-100%      |   |
| 6           | 30000-40000 | 0%          |   |
|             | 40001-59999 | 0-100%      |   |
|             | 60000-65535 | 0-100%      |   |
| 7           | 0-65535     | 0-100%      | <b>Crossfade</b><br>0 full CCT, 65535 full RGBWW,     |
| 8           |             |             |   |
| 9           | 0-65535     | X*65535     | <b>X Coordinate</b><br>Formular: X = DMX_value /65535 |
| 10          |             |             |   |
| 11          | 0-65535     | Y*65535     | <b>Y Coordinate</b><br>Formular: Y = DMX_value /65535 |
| 12          |             |             |   |

**LIGHT 2 - MODE 15 CCT+XY 16 Bit - 12 CH**

DMX Channel 13 - 24, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 15 CCT+XY 16 Bit - 12 CH**

DMX Channel 25 - 36, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 15 CCT+XY 16 Bit - 12 CH**

DMX Channel 37 - 48, the value and function is same as LIGHT 1

**LIGHT 5 - MODE 15 CCT+XY 16 Bit - 12 CH**

DMX Channel 49 - 60, the value and function is same as LIGHT 1

**LIGHT 6 - MODE 15 CCT+XY 16 Bit - 12 CH**

DMX Channel 61 - 72, the value and function is same as LIGHT 1

**LIGHT 7 - MODE 15 CCT+XY 16 Bit - 12 CH**

DMX Channel 73 - 84, the value and function is same as LIGHT 1

**LIGHT 8 - MODE 15 CCT+XY 16 Bit - 12 CH**

DMX Channel 85 - 96, the value and function is same as LIGHT 1

**LIGHT 9 - MODE 15 CCT+XY 16 Bit - 12 CH**

DMX Channel 97 - 108, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 16 CCT+GEL 8 Bit - 7 CH**

| DMX Channel | DMX Value   | Range              | Function  |
|-------------|-------------|--------------------|---|
| 1           | 0-51        | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392  |
|             | 51-102      | 20-40%             |   |
|             | 102-153     | 40-60%             |   |
|             | 153-204     | 60-80%             |   |
|             | 204-255     | 80-100%            |   |
| 2           | 0-255       | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature =<br>2700+DMX_value *28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
| 3           | 0-20        | 0%                 | <b>Green / Magenta</b>  |
|             | 21-30       | Full Magenta(100%) |   |
|             | 31-129      | Magenta(99%-1%)    |   |
|             | 130-140     | 0%                 |   |
|             | 141-240     | Green(1%-99%)      |   |
| 241-255     | Green(100%) |                    |   |
| 4           | 0-255       | 0-100%             | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW,<br>smooth fade  |
| 5           | 0-127       | 3200K              | <b>3200K</b>  |
|             | 128-255     | 5600K              | <b>5600K</b>  |
| 6           | 0-127       | Group I            | <b>Select Group I</b>   |
|             | 128-255     | Group II           | <b>Select Group II</b>  |
| 7           | 0-121       | 1-122              | <b>GEL Filter Number in Group I</b>   |
|             | 0-190       | 123-313            | <b>GEL Filter Number in Group II</b>  |

**LIGHT 2 - MODE 16 CCT+GEL 8 Bit - 7 CH**

DMX Channel 8 - 14, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 16 CCT+GEL 8 Bit - 7 CH**

DMX Channel 15 - 21, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 16 CCT+GEL 8 Bit - 7 CH**

DMX Channel 22 - 28, the value and function is same as LIGHT 1

**LIGHT 5 - MODE 16 CCT+GEL 8 Bit - 7 CH**

DMX Channel 29 - 35, the value and function is same as LIGHT 1

**LIGHT 6 - MODE 16 CCT+GEL 8 Bit - 7 CH**

DMX Channel 36 - 42, the value and function is same as LIGHT 1

**LIGHT 7 - MODE 16 CCT+GEL 8 Bit - 7 CH**

DMX Channel 43 - 49, the value and function is same as LIGHT 1

**LIGHT 8 - MODE 16 CCT+GEL 8 Bit - 7 CH**

DMX Channel 50 - 56, the value and function is same as LIGHT 1

**LIGHT 9 - MODE 16 CCT+GEL 8 Bit - 7 CH**

DMX Channel 57 - 63, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 17 :CT+GEL 16 Bit - 11 CH**

| DMX Channel | DMX Value     | Range              | Function                             |
|-------------|---------------|--------------------|--------------------------------------|
| 1           | 0-65535       | 0-100%             | <b>Dimmer</b>                        |
| 2           |               |                    | Closed - Open                        |
| 3           |               |                    | <b>Color Temperature</b>             |
| 4           | Closed - Open |                    |                                      |
| 5           | 0-5000        | 0%                 | <b>Green / Magenta</b>               |
|             | 5001-10000    | Full Magenta(100%) |                                      |
|             | 10001-29999   | Magenta(99%-1%)    |                                      |
| 6           | 30000-40000   | 0%                 |                                      |
|             | 40001-59999   | Green(1%-99%)      |                                      |
|             | 60000-65535   | Green(100%)        |                                      |
| 7           | 0-65535       | 0-100%             | <b>Crossfade</b>                     |
| 8           |               |                    | 0 full CCT, 65535 full RGBWW,        |
| 9           | 0-127         | 3200K              | <b>3200K</b>                         |
|             | 128-255       | 5600K              | <b>5600K</b>                         |
| 10          | 0-127         | Group I            | <b>Select Group I</b>                |
|             | 128-255       | Group II           | <b>Select Group II</b>               |
| 11          | 0-121         | 1-122              | <b>GEL Filter Number in Group I</b>  |
|             | 0-190         | 123-313            | <b>GEL Filter Number in Group II</b> |

**LIGHT 2 - MODE 17 :CT+GEL 16 Bit - 11 CH**

DMX Channel 12 - 22, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 17 :CT+GEL 16 Bit - 11 CH**

DMX Channel 23 - 33, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 17 :CT+GEL 16 Bit - 11 CH**

DMX Channel 34 - 44, the value and function is same as LIGHT 1

**LIGHT 5 - MODE 17 :CT+GEL 16 Bit - 11 CH**

DMX Channel 45 - 55, the value and function is same as LIGHT 1

**LIGHT 6 - MODE 17 :CT+GEL 16 Bit - 11 CH**

DMX Channel 56 - 66, the value and function is same as LIGHT 1

**LIGHT 7 - MODE 17 :CT+GEL 16 Bit - 11 CH**

DMX Channel 67 - 77, the value and function is same as LIGHT 1

**LIGHT 8 - MODE 17 :CT+GEL 16 Bit - 11 CH**

DMX Channel 78 - 88, the value and function is same as LIGHT 1

**LIGHT 9 - MODE 17 :CT+GEL 16 Bit - 11 CH**

DMX Channel 89 - 99, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 18 GBWW+HSI 8 Bit - 9 CH**

| DMX Channel | DMX Value | Range | Function |
|-------------|-----------|-------|----------|
|-------------|-----------|-------|----------|

|   |   |  |  |
|---|---|--|--|
| 1 | 0-51<br>51-102<br>102-153<br>153-204<br>204-255 | 0-20%<br>20-40%<br>40-60%<br>60-80%<br>80-100% | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392     |
| 2 | 0-255   | 0-100%   | <b>Red</b><br>Formular: per = DMX_value *0.392                         |
| 3 | 0-255   | 0-100%   | <b>Green</b><br>Formular: per = DMX_value *0.392                       |
| 4 | 0-255   | 0-100%   | <b>Blue</b><br>Formular: per = DMX_value *0.392                        |
| 5 | 0-255   | 0-100%   | <b>Warm White</b><br>Formular: per = DMX_value *0.392                  |
| 6 | 0-255   | 0-100%   | <b>Cool White</b><br>Formular: per = DMX_value *0.392                  |
| 7 | 0-255   | 0-100%   | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW,<br>smooth fade         |
| 8 | 0-255   | 0-360  | <b>HUE</b><br>Formular: HUE = DMX_value<br>*1.4118                     |
| 9 | 0-255   | 0-100%   | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |

**LIGHT 2 - MODE 18 GBWW+HSI 8 Bit - 9 CH**

DMX Channel 10 - 18, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 18 GBWW+HSI 8 Bit - 9 CH**

DMX Channel 19 - 27, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 18 GBWW+HSI 8 Bit - 9 CH**

DMX Channel 28 - 36, the value and function is same as LIGHT 1

**LIGHT 5 - MODE 18 GBWW+HSI 8 Bit - 9 CH**

DMX Channel 37 - 45, the value and function is same as LIGHT 1

**LIGHT 6 - MODE 18 GBWW+HSI 8 Bit - 9 CH**

DMX Channel 46 -54, the value and function is same as LIGHT 1

**LIGHT 7 - MODE 18 GBWW+HSI 8 Bit - 9 CH**

DMX Channel 55 - 63, the value and function is same as LIGHT 1

**LIGHT 8 - MODE 18 GBWW+HSI 8 Bit - 9 CH**

DMX Channel 64 - 72, the value and function is same as LIGHT 1

**LIGHT 9 - MODE 18 GBWW+HSI 8 Bit - 9 CH**

DMX Channel 73 - 81, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 19 iBWW+HSI 16 Bit - 18 CH**

| DMX Channel | DMX Value | Range  | Function |
|-------------|-----------|--------|----------|
| 1           | 0.05535   | 0.100% | Dimmer   |

|    |         |        |                               |
|----|---------|--------|-------------------------------|
| 2  | 0-65535 | 0-100% | Closed - Open                 |
| 3  | 0-65535 | 0-100% | <b>Red</b>                    |
| 4  |         |        | Formular: per = DMX_value     |
| 5  | 0-65535 | 0-100% | <b>Green</b>                  |
| 6  |         |        | Formular: per = DMX_value     |
| 7  | 0-65535 | 0-100% | <b>Blue</b>                   |
| 8  |         |        | Formular: per = DMX_value     |
| 9  | 0-65535 | 0-100% | <b>Warm White</b>             |
| 10 |         |        | Formular: per = DMX_value     |
| 11 | 0-65535 | 0-100% | <b>Cool White</b>             |
| 12 |         |        | Formular: per = DMX_value     |
| 13 | 0-65535 | 0-100% | <b>Crossfade</b>              |
| 14 |         |        | 0 full CCT, 65535 full RGBWW, |
| 15 | 0-65535 | 0-360  | <b>Hue</b>                    |
| 16 |         |        | Formular: per = DMX_value     |
| 17 | 0-65535 | 0-100% | <b>Saturation</b>             |
| 18 |         |        | Closed - Open                 |

**LIGHT 2 - MODE 19 iBWW+HSI 16 Bit - 18 CH**

DMX Channel 19 - 36, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 19 iBWW+HSI 16 Bit - 18 CH**

DMX Channel 37 - 54, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 19 iBWW+HSI 16 Bit - 18 CH**

DMX Channel 55 - 72, the value and function is same as LIGHT 1

**LIGHT 5 - MODE 19 iBWW+HSI 16 Bit - 18 CH**

DMX Channel 73 - 90, the value and function is same as LIGHT 1

**LIGHT 6 - MODE 19 iBWW+HSI 16 Bit - 18 CH**

DMX Channel 91 - 108, the value and function is same as LIGHT 1

**LIGHT 7 - MODE 19 iBWW+HSI 16 Bit - 18 CH**

DMX Channel 109 - 126, the value and function is same as LIGHT 1

**LIGHT 8 - MODE 19 iBWW+HSI 16 Bit - 18 CH**

DMX Channel 127 - 144, the value and function is same as LIGHT 1

**LIGHT 9 - MODE 19 iBWW+HSI 16 Bit - 18 CH**

DMX Channel 145 - 162, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 20 iGBWW+XY 8 Bit - 9 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |
| 2           | 0-255     | 0-100%  | <b>Red</b><br>Formular: per = DMX_value *0.392                     |
| 3           | 0-255     | 0-100%  | <b>Green</b><br>Formular: per = DMX_value *0.392                   |
| 4           | 0-255     | 0-100%  | <b>Blue</b><br>Formular: per = DMX_value *0.392                    |



|   |       |        |  |
|---|-------|--------|--|
| 5 | 0-255 | 0-100% | <b>Warm White</b><br>Formular: per = DMX_value *0.392          |
| 6 | 0-255 | 0-100% | <b>Cool White</b><br>Formular: per = DMX_value *0.392          |
| 7 | 0-255 | 0-100% | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW,<br>smooth fade |
| 8 | 0-255 | X*255  | <b>X Coordinate</b><br>Formular: X = DMX_value /255            |
| 9 | 0-255 | Y*255  | <b>Y Coordinate</b><br>Formular: Y = DMX_value /255            |

**LIGHT 2 - MODE 20 :GBWW+XY 8 Bit - 9 CH**

DMX Channel 10 - 18, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 20 :GBWW+XY 8 Bit - 9 CH**

DMX Channel 19 - 27, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 20 :GBWW+XY 8 Bit - 9 CH**

DMX Channel 28 - 36, the value and function is same as LIGHT 1

**LIGHT 5 - MODE 20 :GBWW+XY 8 Bit - 9 CH**

DMX Channel 37 - 45, the value and function is same as LIGHT 1

**LIGHT 6 - MODE 20 :GBWW+XY 8 Bit - 9 CH**

DMX Channel 46 -54, the value and function is same as LIGHT 1

**LIGHT 7 - MODE 20 :GBWW+XY 8 Bit - 9 CH**

DMX Channel 55 - 63, the value and function is same as LIGHT 1

**LIGHT 8 - MODE 20 :GBWW+XY 8 Bit - 9 CH**

DMX Channel 64 - 72, the value and function is same as LIGHT 1

**LIGHT 9 - MODE 20 :GBWW+XY 8 Bit - 9 CH**

DMX Channel 73 - 81, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 21 :GBWW+XY 16 Bit - 18 CH**

| DMX Channel | DMX Value | Range   | Function                        |
|-------------|-----------|---------|---------------------------------|
| 1           | 0-65535   | 0-100%  | <b>Dimmer</b>                   |
| 2           |           |         | Closed - Open                   |
| 3           | 0-65535   | 0-100%  | <b>Red</b>                      |
| 4           |           |         | Formular: per = DMX_value       |
| 5           | 0-65535   | 0-100%  | <b>Green</b>                    |
| 6           |           |         | Formular: per = DMX_value       |
| 7           | 0-65535   | 0-100%  | <b>Blue</b>                     |
| 8           |           |         | Formular: per = DMX_value       |
| 9           | 0-65535   | 0-100%  | <b>Warm</b>                     |
| 10          |           |         | Formular: per = DMX_value       |
| 11          | 0-65535   | 0-100%  | <b>Cool White</b>               |
| 12          |           |         | Formular: per = DMX_value       |
| 13          | 0-65535   | 0-100%  | <b>Crossfade</b>                |
| 14          |           |         | 0 full CCT, 65535 full RGBWW,   |
| 15          | 0-65535   | X*65535 | <b>X Coordinate</b>             |
| 16          |           |         | Formular: X = DMX_value /65535  |
| 17          | 0-65535   | Y*65535 | <b>Y Coordinate</b>             |
| 18          |           |         | Formular: Y = DMX_value /655.35 |

**LIGHT 2 - MODE 21 ;BWW+XY 16 Bit - 18 CH**

DMX Channel 19 - 36, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 21 ;BWW+XY 16 Bit - 18 CH**

DMX Channel 37 - 54, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 21 ;BWW+XY 16 Bit - 18 CH**

DMX Channel 55 - 72, the value and function is same as LIGHT 1

**LIGHT 5 - MODE 21 ;BWW+XY 16 Bit - 18 CH**

DMX Channel 73 - 90, the value and function is same as LIGHT 1

**LIGHT 6 - MODE 21 ;BWW+XY 16 Bit - 18 CH**

DMX Channel 91 - 108, the value and function is same as LIGHT 1

**LIGHT 7 - MODE 21 ;BWW+XY 16 Bit - 18 CH**

DMX Channel 109 - 126, the value and function is same as LIGHT 1

**LIGHT 8 - MODE 21 ;BWW+XY 16 Bit - 18 CH**

DMX Channel 127 - 144, the value and function is same as LIGHT 1

**LIGHT 9 - MODE 21 ;BWW+XY 16 Bit - 18 CH**

DMX Channel 145 - 162, the value and function is same as LIGHT 1

**LIGHT 2 - MODE 22 HSI+XY 8 Bit - 6 CH**

| DMX Channel | DMX Value                                       | Range  | Function   |
|-------------|---|--|--|
| 1           | 0-51<br>51-102<br>102-153<br>153-204<br>204-255 | 0-20%<br>20-40%<br>40-60%<br>60-80%<br>80-100% | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392     |
| 2           | 0-255   | 0-360  | <b>Hue</b><br>Closed - Open<br>Formular: HUE = DMX_value *1.4118       |
| 3           | 0-255   | 0-100%   | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
| 4           | 0-255   | 0-100%   | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW,<br>smooth fade         |
| 5           | 0-255   | X*255  | <b>X Coordinate</b><br>Formular: X = DMX_value /255                    |
| 6           | 0-255   | Y*255  | <b>Y Coordinate</b><br>Formular: Y = DMX_value /255                    |

**LIGHT 2 - MODE 22 HSI+XY 8 Bit - 6 CH**

DMX Channel 7 - 12, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 22 HSI+XY 8 Bit - 6 CH**

DMX Channel 13 - 18, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 22 HSI+XY 8 Bit - 6 CH**

DMX Channel 19 - 24, the value and function is same as LIGHT 1

**LIGHT 5 - MODE 22 HSI+XY 8 Bit - 6 CH**

DMX Channel 25 - 30, the value and function is same as LIGHT 1

**LIGHT 6 - MODE 22 HSI+XY 8 Bit - 6 CH**

DMX Channel 31 - 36, the value and function is same as LIGHT 1

**LIGHT 7 - MODE 22 HSI+XY 8 Bit - 6 CH**

DMX Channel 37 - 42, the value and function is same as LIGHT 1

**LIGHT 8 - MODE 22 HSI+XY 8 Bit - 6 CH**

DMX Channel 43 - 48, the value and function is same as LIGHT 1

**LIGHT 9 - MODE 22 HSI+XY 8 Bit - 6 CH**

DMX Channel 49 - 54, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 23 HSI+XY 16 Bit - 12 CH**

| DMX Channel | DMX Value | Range   | Function  |
|-------------|-----------|---------|---|
| 1           | 0-65535   | 0-100%  | <b>Dimmer</b><br>Closed - Open                        |
| 2           |           |         |   |
| 3           | 0-65535   | 0-360   | <b>Hue</b><br>Closed - Open                           |
| 4           |           |         |   |
| 5           | 0-65535   | 0-100%  | <b>Saturation</b><br>Closed - Open                    |
| 6           |           |         |   |
| 7           | 0-65535   | 0-100%  | <b>Crossfade</b><br>0 full CCT, 65535 full RGBWW,     |
| 8           |           |         |   |
| 9           | 0-65535   | X*65535 | <b>X Coordinate</b><br>Formular: X = DMX value /65535 |
| 10          |           |         |   |
| 11          | 0-65535   | Y*65535 | <b>Y Coordinate</b><br>Formular: Y = DMX value /65535 |
| 12          |           |         |   |

**LIGHT 2 - MODE 23 HSI+XY 16 Bit - 12 CH**

DMX Channel 13 - 24, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 23 HSI+XY 16 Bit - 12 CH**

DMX Channel 25 - 36, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 23 HSI+XY 16 Bit - 12 CH**

DMX Channel 37 - 48, the value and function is same as LIGHT 1

**LIGHT 5 - MODE 23 HSI+XY 16 Bit - 12 CH**

DMX Channel 49 - 60, the value and function is same as LIGHT 1

**LIGHT 6 - MODE 23 HSI+XY 16 Bit - 12 CH**

DMX Channel 61 - 72, the value and function is same as LIGHT 1

**LIGHT 7 - MODE 23 HSI+XY 16 Bit - 12 CH**

DMX Channel 73 - 84, the value and function is same as LIGHT 1

**LIGHT 8 - MODE 23 HSI+XY 16 Bit - 12 CH**

DMX Channel 85 - 96, the value and function is same as LIGHT 1

**LIGHT 9 - MODE 23 HSI+XY 16 Bit - 12 CH**

DMX Channel 97 - 108, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 24 EFFECT - CCT Chase 7 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |
| 2           | 000-014   |         | <b>CCT Chase</b>   |

|   |         |                                  |   |
|---|---------|----------------------------------|---|
| 3 | 0-255   | 2700-10000K                      | <b>CCT Start</b><br>Formular: Color Temperature =<br>2700 + DMX_value *28.627 |
| 4 | 0-255   | 2700-10000K                      | <b>CCT Stop</b><br>Formular: Color Temperature =<br>2700 + DMX_value *28.627  |
| 5 | 0-20    | 0%                               | <b>Green / Magenta</b>  |
|   | 21-30   | Full Magenta(100%)               |   |
|   | 31-129  | Magenta(99%-1%)                  |   |
|   | 130-140 | 0%                               |   |
|   | 141-240 | Green(1%-99%)                    |   |
|   | 241-255 | Green(100%)                      |   |
| 6 | 10-19   | Loop time increase<br>60 seconds | <b>Loop time (max 600 second)</b>   |
|   | 20-29   | 120 seconds                      |   |
|   | 30-39   | 180 seconds                      |   |
|   | 40-49   | 240 seconds                      |   |
|   | 50-59   | 300 seconds                      |   |
|   | 60-69   | 360 seconds                      |   |
|   | 70-79   | 420 seconds                      |   |
|   | 80-89   | 480 seconds                      |   |
|   | 90-99   | 540 seconds                      |   |
| 7 | 0-50    | 0-50 seconds                     | <b>Second/Loop</b>  |
|   | 50-100  | 50-100 seconds                   |   |
|   | 100-150 | 100-150 seconds                  |   |
|   | 150-200 | 150-200 seconds                  |   |
|   | 200-255 | 200-255 seconds                  |   |

**LIGHT 2 - MODE 24 EFFECT - CCT Chase**

DMX Channel 8 - 14, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 24 EFFECT - CCT Chase**

DMX Channel 15 - 21, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 24 EFFECT - CCT Chase**

DMX Channel 22 - 28, the value and function is same as LIGHT 1

**LIGHT 5 - MODE 24 EFFECT - CCT Chase**

DMX Channel 29 - 35, the value and function is same as LIGHT 1

**LIGHT 6 - MODE 24 EFFECT - CCT Chase**

DMX Channel 36 - 42, the value and function is same as LIGHT 1

**LIGHT 7 - MODE 24 EFFECT - CCT Chase**

DMX Channel 43 - 49, the value and function is same as LIGHT 1

**LIGHT 8 - MODE 24 EFFECT - CCT Chase**

DMX Channel 50 - 56, the value and function is same as LIGHT 1

**LIGHT 9 - MODE 24 EFFECT - CCT Chase**

DMX Channel 57 - 63, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 24 EFFECT - Color Chase 7 CH**

| DMX Channel | DMX Value | Range  | Function   |
|-------------|-----------|--------|--|
| 1           | 0-255     | 0-100% | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |

|   |   |  |  |
|---|---|--|--|
| 2 | 015-026   |  | <b>Color Chase</b>   |
| 3 | 0-42<br>42-85<br>85-127<br>127-170<br>170-212<br>212-255                      | 0°-60°<br>60°-120°<br>120°-180°<br>180°-240°<br>240°-300°<br>300°-360°   | <b>HUE Start</b><br>Formular: HUE = DMX_value<br>*1.4118               |
| 4 | 0-42<br>42-85<br>85-127<br>127-170<br>170-212<br>212-255                      | 0°-60°<br>60°-120°<br>120°-180°<br>180°-240°<br>240°-300°<br>300°-360°   | <b>HUE Stop</b><br>Formular: HUE = DMX_value<br>*1.4118                |
| 5 | 0-255   | 0%   | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
| 6 | 10-19<br>20-29<br>30-39<br>40-49<br>50-59<br>60-69<br>70-79<br>80-89<br>90-99 | Loop time increase<br>60 seconds<br>120 seconds<br>180 seconds<br>240 seconds<br>300 seconds<br>360 seconds<br>420 seconds<br>480 seconds<br>540 seconds | <b>Loop time (max 600 second)</b>                                      |
| 7 | 0-50<br>50-100<br>100-150<br>150-200<br>200-255                               | 0-50 seconds<br>50-100 seconds<br>100-150 seconds<br>150-200 seconds<br>200-255 seconds  | <b>Second/Loop</b>   |

#### **LIGHT 2 - MODE 24 EFFECT - Color Chase**

DMX Channel 8 - 14, the value and function is same as LIGHT 1

#### **LIGHT 3 - MODE 24 EFFECT - Color Chase**

DMX Channel 15 - 21, the value and function is same as LIGHT 1

#### **LIGHT 4 - MODE 24 EFFECT - Color Chase**

DMX Channel 22 - 28, the value and function is same as LIGHT 1

#### **LIGHT 5 - MODE 24 EFFECT - Color Chase**

DMX Channel 29 - 35, the value and function is same as LIGHT 1

#### **LIGHT 6 - MODE 24 EFFECT - Color Chase**

DMX Channel 36 - 42, the value and function is same as LIGHT 1

#### **LIGHT 7 - MODE 24 EFFECT - Color Chase**

DMX Channel 43 - 49, the value and function is same as LIGHT 1

#### **LIGHT 8 - MODE 24 EFFECT - Color Chase**

DMX Channel 50 - 56, the value and function is same as LIGHT 1

#### **LIGHT 9 - MODE 24 EFFECT - Color Chase**

DMX Channel 57 - 63, the value and function is same as LIGHT 1

| <b>LIGHT 1 - MODE 24 EFFECT - Fireworks 7 CH</b> |                  |              |  |
|--|------------------|--------------|--|
| <b>DMX Channel</b>                               | <b>DMX Value</b> | <b>Range</b> | <b>Function</b>  |
| 1  | 0-51             | 0-20%        | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392     |
|  | 51-102           | 20-40%       |  |
|  | 102-153          | 40-60%       |  |
|  | 153-204          | 60-80%       |  |
|  | 204-255          | 80-100%      |  |
| 2  | 027-039          |              | <b>Fireworks</b>   |
| 3  | 0-255            | 0-360        | <b>HUE Start</b><br>Formular: HUE = DMX_value *1.4118                  |
| 4  | 0-255            | 0-360        | <b>HUE Stop</b><br>Formular: HUE = DMX_value *1.4118                   |
| 5  | 0-255            | 0-100%       | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
| 6  | 0-255            | 0-60         | <b>Explosion/min</b><br>Formular: speed = dmx_value/4.25               |
| 7  | 0-255            | 5-95         | <b>Duration</b><br>Formular: duty = 5+DMX_value *0.353                 |

**LIGHT 2 - MODE 24 EFFECT - Fireworks**

DMX Channel 8 - 14, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 24 EFFECT - Fireworks**

DMX Channel 15 - 21, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 24 EFFECT - Fireworks**

DMX Channel 22 - 28, the value and function is same as LIGHT 1

**LIGHT 5 - MODE 24 EFFECT - Fireworks**

DMX Channel 29 - 35, the value and function is same as LIGHT 1

**LIGHT 6 - MODE 24 EFFECT - Fireworks**

DMX Channel 36 - 42, the value and function is same as LIGHT 1

**LIGHT 7 - MODE 24 EFFECT - Fireworks**

DMX Channel 43 - 49, the value and function is same as LIGHT 1

**LIGHT 8 - MODE 24 EFFECT - Fireworks**

DMX Channel 50 - 56, the value and function is same as LIGHT 1

**LIGHT 9 - MODE 24 EFFECT - Fireworks**

DMX Channel 57 - 63, the value and function is same as LIGHT 1

| <b>LIGHT 1 - MODE 24 EFFECT - Fire 4 CH</b> |                  |              |  |
|---|------------------|--------------|--|
| <b>DMX Channel</b>                          | <b>DMX Value</b> | <b>Range</b> | <b>Function</b>  |
| 1   | 0-51             | 0-20%        | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|   | 51-102           | 20-40%       |  |
|   | 102-153          | 40-60%       |  |
|   | 153-204          | 60-80%       |  |
|   | 204-255          | 80-100%      |  |

|   |         |         |   |
|---|---------|---------|---|
| 2 | 040-052 |         | <b>Fire</b>   |
| 3 | 0-255   | 0-100   | <b>Wind Speed</b><br>Formular: per = DMX_value *0.392 |
| 4 | 0-49    | 0-49    | <b>Fire Type: Candle</b>                              |
|   | 50-99   | 50-99   | <b>Fire Type: Campfire</b>                            |
|   | 100-149 | 100-149 | <b>Fire Type: bonfire</b>                             |

**LIGHT 2 - MODE 24 EFFECT - Fire**

DMX Channel 5 - 8, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 24 EFFECT - Fire**

DMX Channel 9 - 12, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 24 EFFECT - Fire**

DMX Channel 13 - 16, the value and function is same as LIGHT 1

**LIGHT 5 - MODE 24 EFFECT - Fire**

DMX Channel 17 - 20, the value and function is same as LIGHT 1

**LIGHT 6 - MODE 24 EFFECT - Fire**

DMX Channel 21 - 24, the value and function is same as LIGHT 1

**LIGHT 7 - MODE 24 EFFECT - Fire**

DMX Channel 25 - 28, the value and function is same as LIGHT 1

**LIGHT 8 - MODE 24 EFFECT - Fire**

DMX Channel 29 - 32, the value and function is same as LIGHT 1

**LIGHT 9 - MODE 24 EFFECT - Fire**

DMX Channel 33 - 36, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 24 EFFECT - Explosion 5 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |
| 2           | 053-065   |         | <b>Explosion</b>   |
| 3           | 0-255     | 0-60    | <b>Explosion/min</b><br>Formular: speed = DMX_value /4.25          |
| 4           | 0-255     | 5-95    | <b>Duration</b><br>Formular: duty = 5 + DMX_value *0.353           |
| 5           | 0-49      | 0-49    | <b>Fire Type: Warm</b>   |
|             | 50-99     | 50-99   | <b>Fire Type: Cool</b>   |
|             | 100-149   | 100-149 | <b>Fire Type: Colors</b>   |

**LIGHT 2 - MODE 24 EFFECT - Explosion**

DMX Channel 6 - 10, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 24 EFFECT - Explosion**

DMX Channel 11 - 15, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 24 EFFECT - Explosion**

DMX Channel 15 - 20, the value and function is same as LIGHT 1

**LIGHT 5 - MODE 24 EFFECT - Explosion**

DMX Channel 21 - 25, the value and function is same as LIGHT 1

**LIGHT 6 - MODE 24 EFFECT - Explosion**

DMX Channel 26 - 30, the value and function is same as LIGHT 1

**LIGHT 7 - MODE 24 EFFECT - Explosion**

DMX Channel 31 - 35, the value and function is same as LIGHT 1

**LIGHT 8 - MODE 24 EFFECT - Explosion**

DMX Channel 36 - 40, the value and function is same as LIGHT 1

**LIGHT 9 - MODE 24 EFFECT - Explosion**

DMX Channel 41 - 45, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 24 EFFECT - Lightning****5 CH**

| DMX Channel | DMX Value   | Range              | Function  |
|-------------|-------------|--------------------|---|
| 1           | 0-51        | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392  |
|             | 51-102      | 20-40%             |   |
|             | 102-153     | 40-60%             |   |
|             | 153-204     | 60-80%             |   |
|             | 204-255     | 80-100%            |   |
| 2           | 50-59       |                    | <b>Lightning</b>  |
| 3           | 0-255       | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature =<br>2700+DMX_value *28.627<br>Example: 17 -> 3200K<br>101-> 5600K<br>185-> 8000K<br>255-> 10000K |
| 4           | 0-20        | 0%                 | <b>Green / Magenta</b>  |
|             | 21-30       | Full Magenta(100%) |   |
|             | 31-129      | Magenta(99%-1%)    |   |
|             | 130-140     | 0%                 |   |
|             | 141-240     | Green(1%-99%)      |   |
| 241-255     | Green(100%) |                    |   |
| 5           | 0-255       | 1-60               | <b>Intervals (Second)</b><br>Formular: time = DMX_value /4.25   |

**LIGHT 2 - MODE 2 EFFECT - Lightning**

DMX Channel 6 - 10, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 2 EFFECT - Lightning**

DMX Channel 11 - 15, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 2 EFFECT - Lightning**

DMX Channel 15 - 20, the value and function is same as LIGHT 1

**LIGHT 5 - MODE 2 EFFECT - Lightning**

DMX Channel 21 - 25, the value and function is same as LIGHT 1

**LIGHT 6 - MODE 2 EFFECT - Lightning**

DMX Channel 26 - 30, the value and function is same as LIGHT 1

**LIGHT 7 - MODE 2 EFFECT - Lightning**

DMX Channel 31 - 35, the value and function is same as LIGHT 1



**LIGHT 8 - MODE 2 EFFECT - Lightning**

DMX Channel 36 - 40, the value and function is same as LIGHT 1

**LIGHT 9 - MODE 2 EFFECT - Lightning**

DMX Channel 41 - 45, the value and function is same as LIGHT 1

| <b>LIGHT 1 - MODE 24 EFFECT - Paparazzi</b> |                  | <b>6 CH</b>        |   |
|---|------------------|--------------------|---|
| <b>DMX Channel</b>                          | <b>DMX Value</b> | <b>Range</b>       | <b>Function</b>   |
| 1   | 0-51             | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392  |
|   | 51-102           | 20-40%             |   |
|   | 102-153          | 40-60%             |   |
|   | 153-204          | 60-80%             |   |
|   | 204-255          | 80-100%            |   |
| 2   | 078-090          |                    | <b>Paparazzi</b>  |
| 3   | 0-255            | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+<br>DMX_value*28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
| 4   | 0-20             | 0%                 | <b>Green / Magenta</b>  |
|   | 21-30            | Full Magenta(100%) |   |
|   | 31-129           | Magenta(99%-1%)    |   |
|   | 130-140          | 0%                 |   |
|   | 141-240          | Green(1%-99%)      |   |
|   | 241-255          | Green(100%)        |   |
| 5   | 0-255            | 0-25Hz             | <b>Frequency</b><br>Formular: frequency = DMX_value /10.2   |
| 6   | 0-49             | 0-49               | <b>Bulb Type: Slow</b>  |
|   | 50-99            | 50-99              | <b>Bulb Type: Medium</b>  |
|   | 100-149          | 100-149            | <b>Bulb Type: Fast</b>  |
|   | 150-199          | 150-199            | Bulb Type: MODE m   |

**LIGHT 2 - MODE 2 EFFECT - Paparazzi**

DMX Channel 7 - 12, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 2 EFFECT - Paparazzi**

DMX Channel 13 - 18, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 2 EFFECT - Paparazzi**

DMX Channel 19 - 24, the value and function is same as LIGHT 1

**LIGHT 5 - MODE 2 EFFECT - Paparazzi**

DMX Channel 25 - 30, the value and function is same as LIGHT 1

**LIGHT 6 - MODE 2 EFFECT - Paparazzi**

DMX Channel 31 - 36, the value and function is same as LIGHT 1

**LIGHT 7 - MODE 2 EFFECT - Paparazzi**

DMX Channel 37 - 42, the value and function is same as LIGHT 1

**LIGHT 8 - MODE 2 EFFECT - Paparazzi**

DMX Channel 43 - 48, the value and function is same as LIGHT 1

**LIGHT 9 - MODE 2 EFFECT - Paparazzi**

DMX Channel 49 - 54, the value and function is same as LIGHT 1

| LIGHT 1 - MODE 24 |           | EFFECT - Pulse | 5 CH   |
|-------------------|-----------|----------------|--|
| DMX Channel       | DMX Value | Range          | Function   |
| 1                 | 0-51      | 0-20%          | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392     |
|                   | 51-102    | 20-40%         |  |
|                   | 102-153   | 40-60%         |  |
|                   | 153-204   | 60-80%         |  |
|                   | 204-255   | 80-100%        |  |
| 2                 | 091-103   |                | <b>Pulse</b>   |
| 3                 | 0-255     | 0-360          | <b>HUE</b><br>Formular: HUE = DMX_value *1.4118                        |
| 4                 | 0-255     | 0-100%         | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
| 5                 | 0-255     | 1-200          | <b>Pulses/min</b><br>Formular: frequency = 1+DMX_value / 1.281         |

**LIGHT 2 - MODE 24 EFFECT - Pulse**

DMX Channel 6 - 10, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 24 EFFECT - Pulse**

DMX Channel 11 - 15, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 24 EFFECT - Pulse**

DMX Channel 15 - 20, the value and function is same as LIGHT 1

**LIGHT 5 - MODE 24 EFFECT - Pulse**

DMX Channel 21 - 25, the value and function is same as LIGHT 1

**LIGHT 6 - MODE 24 EFFECT - Pulse**

DMX Channel 26 - 30, the value and function is same as LIGHT 1

**LIGHT 7 - MODE 24 EFFECT - Pulse**

DMX Channel 31 - 35, the value and function is same as LIGHT 1

**LIGHT 8 - MODE 24 EFFECT - Pulse**

DMX Channel 36 - 40, the value and function is same as LIGHT 1

**LIGHT 9 - MODE 24 EFFECT - Pulse**

DMX Channel 41 - 45, the value and function is same as LIGHT 1

| LIGHT 1 - MODE 24 |           | EFFECT - Police | 6 CH   |
|-------------------|-----------|-----------------|--|
| DMX Channel       | DMX Value | Range           | Function   |
| 1                 | 0-51      | 0-20%           | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|                   | 51-102    | 20-40%          |  |
|                   | 102-153   | 40-60%          |  |
|                   | 153-204   | 60-80%          |  |
|                   | 204-255   | 80-100%         |  |
| 2                 | 104-116   |                 | <b>Police</b>  |
| 3                 | 0-9       | 0-9             | <b>Colors: Red, Blue &amp; White</b>                               |
|                   | 10-19     | 10-19           | <b>Colors: Red &amp; Blue</b>                                      |
|                   | 20-29     | 20-29           | <b>Colors: Red &amp; White</b>                                     |
|                   | 30-39     | 30-39           | <b>Colors: Blue &amp; White</b>                                    |

|   |         |         |   |
|---|---------|---------|---|
|   | 40-49   | 40-49   | <b>Colors:</b> Blue                                     |
|   | 50-59   | 50-59   | <b>Colors:</b> Red                                      |
|   | 60-69   | 60-69   | <b>Colors:</b> Amber                                    |
| 4 | 0-49    | 0-49    | <b>Flash/cycle:</b> 1                                   |
|   | 50-99   | 50-99   | <b>Flash/cycle:</b> 2                                   |
|   | 100-149 | 100-149 | <b>Flash/cycle:</b> 3                                   |
|   | 150-199 | 150-199 | <b>Flash/cycle:</b> 4                                   |
| 5 | 0-255   | 0-100   | <b>Speed</b><br>Formular: per = DMX_value *0.392        |
| 6 | 0-255   | 5-95    | <b>Duration</b><br>Formular: duty = 5+ DMX_value *0.353 |

**LIGHT 2 - MODE 24 EFFECT - Police**

DMX Channel 7 - 12, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 24 EFFECT - Police**

DMX Channel 13 - 18, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 24 EFFECT - Police**

DMX Channel 19 - 24, the value and function is same as LIGHT 1

**LIGHT 5 - MODE 24 EFFECT - Police**

DMX Channel 25 - 30, the value and function is same as LIGHT 1

**LIGHT 6 - MODE 24 EFFECT - Police**

DMX Channel 31 - 36, the value and function is same as LIGHT 1

**LIGHT 7 - MODE 24 EFFECT - Police**

DMX Channel 37 - 42, the value and function is same as LIGHT 1

**LIGHT 8 - MODE 24 EFFECT - Police**

DMX Channel 43 - 48, the value and function is same as LIGHT 1

**LIGHT 9 - MODE 24 EFFECT - Police**

DMX Channel 49 - 54, the value and function is same as LIGHT 1

| <b>LIGHT 1 - MODE 24 EFFECT - Strobe Color</b> |                  | <b>6 CH</b>  |  |
|--|------------------|--------------|--|
| <b>DMX Channel</b>                             | <b>DMX Value</b> | <b>Range</b> | <b>Function</b>  |
| 1  | 0-51             | 0-20%        | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392     |
|  | 51-102           | 20-40%       |  |
|  | 102-153          | 40-60%       |  |
|  | 153-204          | 60-80%       |  |
|  | 204-255          | 80-100%      |  |
| 2  | 117-128          |              | <b>Strobe Color</b>  |
| 3  | 0-255            | 0-360        | <b>HUE</b><br>Formular: HUE = DMX_value *1.4118                        |
| 4  | 0-255            | 0-100        | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
| 5  | 0-255            | 0-25Hz       | <b>Frequency</b><br>Formular: Frequency = DMX_value /10.2              |

|   |       |      |  |
|---|-------|------|--|
| 6 | 0-255 | 5-95 | <b>Duration</b><br>Formular: duty = 5+ DMX_value<br>*0.353 |
|---|-------|------|--|

**LIGHT 2 - MODE 24 EFFECT - Strobe Color**

DMX Channel 7 - 12, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 24 EFFECT - Strobe Color**

DMX Channel 13 - 18, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 24 EFFECT - Strobe Color**

DMX Channel 19 - 24, the value and function is same as LIGHT 1

**LIGHT 5 - MODE 24 EFFECT - Strobe Color**

DMX Channel 25 - 30, the value and function is same as LIGHT 1

**LIGHT 6 - MODE 24 EFFECT - Strobe Color**

DMX Channel 31 - 36, the value and function is same as LIGHT 1

**LIGHT 7 - MODE 24 EFFECT - Strobe Color**

DMX Channel 37 - 42, the value and function is same as LIGHT 1

**LIGHT 8 - MODE 24 EFFECT - Strobe Color**

DMX Channel 43 - 48, the value and function is same as LIGHT 1

**LIGHT 9 - MODE 24 EFFECT - Strobe Color**

DMX Channel 49 - 54, the value and function is same as LIGHT 1

| <b>LIGHT 1 - MODE 24 EFFECT - Strobe CCT</b> |                  |                    | <b>6 CH</b>   |
|--|------------------|--------------------|---|
| <b>DMX Channel</b>                           | <b>DMX Value</b> | <b>Range</b>       | <b>Function</b>   |
| 1  | 0-51             | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392  |
|  | 51-102           | 20-40%             |   |
|  | 102-153          | 40-60%             |   |
|  | 153-204          | 60-80%             |   |
|  | 204-255          | 80-100%            |   |
| 2  | 129-141          |                    | <b>Strobe CCT</b>   |
| 3  | 0-255            | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature =<br>2700+DMX_value *28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
| 4  | 0-20             | 0%                 | <b>Green / Magenta</b>  |
|  | 21-30            | Full Magenta(100%) |   |
|  | 31-129           | Magenta(99%-1%)    |   |
|  | 130-140          | 0%                 |   |
|  | 141-240          | Green(1%-99%)      |   |
|  | 241-255          | Green(100%)        |   |
| 5  | 0-255            | 0-25Hz             | <b>Frequency</b><br>Formular: frequency = DMX_value /10.2   |
| 6  | 0-255            | 5-95               | <b>Duration</b><br>Formular: duty = 5+ DMX_value *0.353   |

**LIGHT 2 - MODE 24 EFFECT - Strobe CCT**

DMX Channel 7 - 12, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 24 EFFECT - Strobe CCT**

DMX Channel 13 - 18, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 24 EFFECT - Strobe CCT**

DMX Channel 19 - 24, the value and function is same as LIGHT 1

**LIGHT 5 - MODE 24 EFFECT - Strobe CCT**

DMX Channel 25 - 30, the value and function is same as LIGHT 1

**LIGHT 6 - MODE 24 EFFECT - Strobe CCT**

DMX Channel 31 - 36, the value and function is same as LIGHT 1

**LIGHT 7 - MODE 24 EFFECT - Strobe CCT**

DMX Channel 37 - 42, the value and function is same as LIGHT 1

**LIGHT 8 - MODE 24 EFFECT - Strobe CCT**

DMX Channel 43 - 48, the value and function is same as LIGHT 1

**LIGHT 9 - MODE 24 EFFECT - Strobe CCT**

DMX Channel 49 - 54, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 25 Macro - 2 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |
| 2           | 0-46      | 0-46    | Pls check: Appendix I Macro  |

**LIGHT 2 - MODE 25 Macro - 2 CH**

DMX Channel 3 - 4, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 25 Macro - 2 CH**

DMX Channel 5 - 6, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 25 Macro - 2 CH**

DMX Channel 7 - 8, the value and function is same as LIGHT 1

**LIGHT 5 - MODE 25 Macro - 2 CH**

DMX Channel 9 - 10, the value and function is same as LIGHT 1

**LIGHT 6 - MODE 25 Macro - 2 CH**

DMX Channel 11 - 12, the value and function is same as LIGHT 1

**LIGHT 7 - MODE 25 Macro - 2 CH**

DMX Channel 13 - 14, the value and function is same as LIGHT 1

**LIGHT 8 - MODE 25 Macro - 2 CH**

DMX Channel 15 - 16, the value and function is same as LIGHT 1

**LIGHT 9 - MODE 25 Macro - 2 CH**

DMX Channel 17 - 18, the value and function is same as LIGHT 1

**DMX Protocol Map**

Suit for Luxed-P4, Luxed Pro-P4

Appendix I

Macro

Appendix II

GEL Filter



**WALL MODE**

**MODE 1 CCT 8 Bit - 3 CH**

| DMX Channel | DMX Value | Range              | Function   |
|-------------|-----------|--------------------|--|
| 1           | 0-51      | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392   |
|             | 51-102    | 20-40%             |  |
|             | 102-153   | 40-60%             |  |
|             | 153-204   | 60-80%             |  |
|             | 204-255   | 80-100%            |  |
| 2           | 0-255     | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br><br>Formular:<br>Color Temperature = 2700+DMX_value *28.627<br><br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
|             |           |                    |  |
| 3           | 0-20      | 0                  | <b>Green / Magenta</b>   |
|             | 21-30     | Full Magenta(100%) |  |
|             | 30-130    | Magenta(99%-1%)    |  |
|             | 130-140   | 0%                 |  |
|             | 141-240   | Green(1%-99%)      |  |
|             | 241-255   | Green(100%)        |  |

**MODE 2 CCT 16 Bit - 6 CH**

| DMX Channel | DMX Value   | Range              | Function                       |
|-------------|-------------|--------------------|--------------------------------|
| 1           | 0-65535     | 0-100%             | <b>Dimmer</b><br>Closed - Open |
| 2           |             |                    |                                |
| 3           |             |                    |                                |
| 4           |             |                    |                                |
| 5           | 0-5000      | 0%                 | <b>Green / Magenta</b>         |
|             | 5001-10000  | Full Magenta(100%) |                                |
|             | 10001-29999 | Magenta(99%-1%)    |                                |
| 6           | 30000-40000 | 0%                 |                                |
|             | 40001-59999 | Green(1%-99%)      |                                |
|             | 60000-65535 | Green(100%)        |                                |

**MODE 3 HSI 8 Bit - 3 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392     |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |
| 2           | 0-255     | 0-360   | <b>Hue</b><br>Closed - Open<br>Formular: HUE = DMX_value *1.4118       |
| 3           | 0-255     | 0-100%  | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |

**MODE 4 HSI 16 Bit - 6 CH**

| DMX Channel | DMX Value | Range  | Function                       |
|-------------|-----------|--------|--------------------------------|
| 1           | 0-65535   | 0-100% | <b>Dimmer</b><br>Closed - Open |
| 2           |           |        |                                |

|   |         |        |                   |
|---|---------|--------|-------------------|
| 3 | 0-65535 | 0-360  | <b>Hue</b>        |
| 4 |         |        | Closed - Open     |
| 5 | 0-65535 | 0-100% | <b>Saturation</b> |
| 6 |         |        | Closed - Open     |

| <b>MODE 5 XY 8 Bit - 3 CH</b> |  |  |  |
|-------------------------------|--|--|--|
|-------------------------------|--|--|--|

| DMX Channel | DMX Value | Range   | Function  |
|-------------|-----------|---------|---|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value * 0.392 |
|             | 51-102    | 20-40%  |   |
|             | 102-153   | 40-60%  |   |
|             | 153-204   | 60-80%  |   |
|             | 204-255   | 80-100% |   |
| 2           | 0-255     | X*255   | <b>X Coordinate</b><br>Formular: X = DMX_value / 255                |
| 3           | 0-255     | Y*255   | <b>Y Coordinate</b><br>Formular: Y = DMX_value / 255                |

| <b>MODE 6 XY 16 Bit - 6 CH</b> |  |  |  |
|--------------------------------|--|--|--|
|--------------------------------|--|--|--|

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-65535   | 0-100%  | <b>Dimmer</b><br>Closed - Open                         |
| 2           |           |         |  |
| 3           |           |         |  |
| 4           | 0-65535   | X*65535 | <b>X Coordinate</b><br>Formular: X = DMX_value / 65535 |
| 5           | 0-65535   | Y*65535 | <b>Y Coordinate</b><br>Formular: Y = DMX_value / 65535 |
| 6           |           |         |  |

| <b>MODE 7 RGBWW 8 Bit - 6 CH</b> |  |  |  |
|----------------------------------|--|--|--|
|----------------------------------|--|--|--|

| DMX Channel | DMX Value | Range   | Function  |
|-------------|-----------|---------|---|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value * 0.392 |
|             | 51-102    | 20-40%  |   |
|             | 102-153   | 40-60%  |   |
|             | 153-204   | 60-80%  |   |
|             | 204-255   | 80-100% |   |
| 2           | 0-255     | 0-100%  | <b>Red</b><br>Formular: per = DMX_value * 0.392                     |
| 3           | 0-255     | 0-100%  | <b>Green</b><br>Formular: per = DMX_value * 0.392                   |
| 4           | 0-255     | 0-100%  | <b>Blue</b><br>Formular: per = DMX_value * 0.392                    |
| 5           | 0-255     | 0-100%  | <b>Warm White</b><br>Formular: per = DMX_value * 0.392              |
| 6           | 0-255     | 0-100%  | <b>Cool White</b><br>Formular: per = DMX_value * 0.392              |

| <b>MODE 8 RGBWW 16 Bit - 12 CH</b> |  |  |  |
|------------------------------------|--|--|--|
|------------------------------------|--|--|--|

| DMX Channel | DMX Value | Range  | Function  |
|-------------|-----------|--------|---|
| 1           | 0-65535   | 0-100% | <b>Dimmer</b><br>Closed - Open                          |
| 2           |           |        |   |
| 3           | 0-65535   | 0-100% | <b>Red</b><br>Formular: per = DMX_value / 655.35        |
| 4           |           |        |   |
| 5           | 0-65535   | 0-100% | <b>Green</b><br>Formular: per = DMX_value / 655.35      |
| 6           |           |        |   |
| 7           | 0-65535   | 0-100% | <b>Blue</b><br>Formular: per = DMX_value / 655.35       |
| 8           |           |        |   |
| 9           | 0-65535   | 0-100% | <b>Warm White</b><br>Formular: per = DMX_value / 655.35 |
| 10          |           |        |   |
| 11          | 0-65535   | 0-100% | <b>Cool White</b><br>Formular: per = DMX_value / 655.35 |
| 12          |           |        |   |

| <b>MODE 9 GEL 8 Bit - 4 CH</b> |  |  |  |
|--------------------------------|--|--|--|
|--------------------------------|--|--|--|

| DMX Channel | DMX Value | Range | Function |
|-------------|-----------|-------|----------|
|-------------|-----------|-------|----------|

|   |         |          |  |
|---|---------|----------|--|
| 1 | 0-51    | 0-20%    | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|   | 51-102  | 20-40%   |  |
|   | 102-153 | 40-60%   |  |
|   | 153-204 | 60-80%   |  |
|   | 204-255 | 80-100%  |  |
| 2 | 0-127   | 3200K    | <b>3200K</b>   |
|   | 128-255 | 5600K    | <b>5600K</b>   |
| 3 | 0-127   | Group I  | <b>Select Group I</b>  |
|   | 128-255 | Group II | <b>Select Group II</b>   |
| 4 | 0-121   | 1-122    | <b>GEL Filter Number in Group I</b>                                |
|   | 0-190   | 123-313  | <b>GEL Filter Number in Group II</b>                               |

**MODE 10 CCT+RGBWW 8 Bit - 9 CH**

| DMX Channel | DMX Value   | Range              | Function   |
|-------------|-------------|--------------------|--|
| 1           | 0-51        | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392   |
|             | 51-102      | 20-40%             |  |
|             | 102-153     | 40-60%             |  |
|             | 153-204     | 60-80%             |  |
|             | 204-255     | 80-100%            |  |
| 2           | 0-255       | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+DMX_value *28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
| 3           | 0-20        | 0%                 | <b>Green / Magenta</b>   |
|             | 21-30       | Full Magenta(100%) |  |
|             | 31-129      | Magenta(99%-1%)    |  |
|             | 130-140     | 0%                 |  |
|             | 141-240     | Green(1%-99%)      |  |
| 241-255     | Green(100%) |                    |  |
| 4           | 0-255       | 0-100%             | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW, smooth fade  |
| 5           | 0-255       | 0-100%             | <b>Red</b><br>Formular: per = DMX_value *0.392   |
| 6           | 0-255       | 0-100%             | <b>Green</b><br>Formular: per = DMX_value *0.392   |
| 7           | 0-255       | 0-100%             | <b>Blue</b><br>Formular: per = DMX_value *0.392  |
| 8           | 0-255       | 0-100%             | <b>Warm White</b><br>Formular: per = DMX_value *0.392  |
| 9           | 0-255       | 0-100%             | <b>Cool White</b><br>Formular: per = DMX_value *0.392  |

**MODE 11 CCT+RGBWW 16 Bit - 18 CH**

| DMX Channel | DMX Value   | Range              | Function   |
|-------------|-------------|--------------------|--|
| 1           | 0-65535     | 0-100%             | <b>Dimmer</b><br>Closed - Open                           |
| 2           |             |                    |  |
| 3           |             |                    |  |
| 4           |             |                    |  |
| 5           | 0-5000      | 0%                 | <b>Color Temperature</b><br>Closed - Open                |
|             | 5001-10000  | Full Magenta(100%) |  |
|             | 10001-29999 | Magenta(99%-1%)    |  |
|             | 30000-40000 | 0%                 |  |
|             | 40001-59999 | Green(1%-99%)      |  |
| 60000-65535 | Green(100%) |                    |  |
| 6           | 0-65535     | 0-100%             | <b>Green / Magenta</b>                                   |
| 7           |             |                    |  |
| 8           |             |                    |  |
| 9           | 0-65535     | 0-100%             | <b>Crossfade</b><br>0 full CCT, 65535 full RGBWW, smooth |



|    |         |        |                                   |
|----|---------|--------|-----------------------------------|
| 9  | 0-65535 | 0-100% | <b>Red</b>                        |
| 10 |         |        | Formular: per = DMX value /655.35 |
| 11 | 0-65535 | 0-100% | <b>Green</b>                      |
| 12 |         |        | Formular: per = DMX value /655.35 |
| 13 | 0-65535 | 0-100% | <b>Blue</b>                       |
| 14 |         |        | Formular: per = DMX value /655.35 |
| 15 | 0-65535 | 0-100% | <b>Warm White</b>                 |
| 16 |         |        | Formular: per = DMX value /655.35 |
| 17 | 0-65535 | 0-100% | <b>Cool White</b>                 |
| 18 |         |        | Formular: per = DMX value /655.35 |

**MODE 12 CCT+HSI 8 Bit - 6 CH**

| DMX Channel | DMX Value   | Range              | Function   |
|-------------|-------------|--------------------|--|
| 1           | 0-51        | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392   |
|             | 51-102      | 20-40%             |  |
|             | 102-153     | 40-60%             |  |
|             | 153-204     | 60-80%             |  |
|             | 204-255     | 80-100%            |  |
| 2           | 0-255       | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+DMX_value *28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
| 3           | 0-20        | 0%                 | <b>Green / Magenta</b>   |
|             | 21-30       | Full Magenta(100%) |  |
|             | 31-129      | Magenta(99%-1%)    |  |
|             | 130-140     | 0%                 |  |
|             | 141-240     | Green(1%-99%)      |  |
| 241-255     | Green(100%) |                    |  |
| 4           | 0-255       | 0-100%             | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW, smooth fade  |
| 5           | 0-255       | 0-360              | <b>HUE</b><br>Formular: HUE = DMX_value *1.4118  |
| 6           | 0-255       | 0-100%             | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392   |

**MODE 13 CCT+HSI 16 Bit - 12 CH**

| DMX Channel | DMX Value   | Range              | Function   |
|-------------|-------------|--------------------|--|
| 1           | 0-65535     | 0-100%             | <b>Dimmer</b><br>Closed - Open                           |
| 2           |             |                    |  |
| 3           | 0-65535     | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open                |
| 4           |             |                    |  |
| 5           | 0-5000      | 0%                 | <b>Green / Magenta</b>                                   |
|             | 5001-10000  | Full Magenta(100%) |  |
|             | 10001-29999 | Magenta(99%-1%)    |  |
| 6           | 30000-40000 | 0%                 | <b>Green / Magenta</b>                                   |
|             | 40001-59999 | Green(1%-99%)      |  |
|             | 60000-65535 | Green(100%)        |  |
| 7           | 0-65535     | 0-100%             | <b>Crossfade</b><br>0 full CCT, 65535 full RGBWW, smooth |
| 8           |             |                    |  |
| 9           | 0-65535     | 0-360              | <b>HUE</b><br>Formular: HUE = DMX_value *0.005493        |
| 10          |             |                    |  |
| 11          | 0-65535     | 0-100%             | <b>Saturation</b><br>Closed - Open                       |
| 12          |             |                    |  |

**MODE 14 CCT+XY 8 Bit - 6 CH**

| DMX Channel | DMX Value | Range | Function |
|-------------|-----------|-------|----------|
|-------------|-----------|-------|----------|

|         |   |  |  |
|---------|---|--|--|
| 1       | 0-51<br>51-102<br>102-153<br>153-204<br>204-255 | 0-20%<br>20-40%<br>40-60%<br>60-80%<br>80-100% | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392   |
| 2       | 0-255   | 2700-10000K                                    | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+DMX_value *28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
| 3       | 0-20  | 0%   | <b>Green / Magenta</b>   |
|         | 21-30   | Full Magenta(100%)                             |  |
|         | 31-129  | Magenta(99%-1%)                                |  |
|         | 130-140   | 0%   |  |
|         | 141-240   | Green(1%-99%)                                  |  |
| 241-255 | Green(100%)                                     |  |  |
| 4       | 0-255   | 0-100%   | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW, smooth fade  |
| 5       | 0-255   | X*255  | <b>X Coordinate</b><br>Formular: X = DMX_value /255  |
| 6       | 0-255   | Y*255  | <b>Y Coordinate</b><br>Formular: Y = DMX_value /255  |

**MODE 15 CCT+XY 16 Bit - 12 CH**

| DMX Channel | DMX Value   | Range       | Function                             |
|-------------|-------------|-------------|--------------------------------------|
| 1           | 0-65535     | 0-100%      | <b>Dimmer</b>                        |
| 2           |             |             | Closed - Open                        |
| 3           | 0-65535     | 2700-10000K | <b>Color Temperature</b>             |
| 4           |             |             | Closed - Open                        |
| 5           | 0-5000      | 0-100%      | <b>Green / Magenta</b>               |
|             | 5001-10000  | 0-100%      |                                      |
|             | 10001-29999 | 0-100%      |                                      |
| 6           | 30000-40000 | 0%          |                                      |
|             | 40001-59999 | 0-100%      |                                      |
|             | 60000-65535 | 0-100%      |                                      |
| 7           | 0-65535     | 0-100%      | <b>Crossfade</b>                     |
| 8           |             |             | 0 full CCT, 65535 full RGBWW, smooth |
| 9           | 0-65535     | X*65535     | <b>X Coordinate</b>                  |
| 10          |             |             | Formular: X = DMX_value /65535       |
| 11          | 0-65535     | Y*65535     | <b>Y Coordinate</b>                  |
| 12          |             |             | Formular: Y = DMX_value /65535       |

**MODE 16 CCT+GEL 8 Bit - 7 CH**

| DMX Channel | DMX Value | Range   | Function      |
|-------------|-----------|---------|---------------|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b> |
|             | 51-102    | 20-40%  |               |
|             | 102-153   | 40-60%  |               |
|             | 153-204   | 60-80%  |               |
|             | 204-255   | 80-100% |               |

|   |         |                    |   |
|---|---------|--------------------|---|
| 2 | 0-255   | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+DMX_value<br>*28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
| 3 | 0-20    | 0%                 | <b>Green / Magenta</b>  |
|   | 21-30   | Full Magenta(100%) |   |
|   | 31-129  | Magenta(99%-1%)    |   |
|   | 130-140 | 0%                 |   |
|   | 141-240 | Green(1%-99%)      |   |
|   | 241-255 | Green(100%)        |   |
| 4 | 0-255   | 0-100%             | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW, smooth<br>fade  |
| 5 | 0-127   | 3200K              | <b>3200K</b>  |
|   | 128-255 | 5600K              | <b>5600K</b>  |
| 6 | 0-127   | Group I            | <b>Select Group I</b>   |
|   | 128-255 | Group II           | <b>Select Group II</b>  |
| 7 | 0-121   | 1-122              | <b>GEL Filter Number in Group I</b>   |
|   | 0-190   | 123-313            | <b>GEL Filter Number in Group II</b>  |

**MODE 17 CCT+GEL 16 Bit - 11 CH**

| DMX Channel | DMX Value   | Range              | Function   |
|-------------|-------------|--------------------|--|
| 1           | 0-65535     | 0-100%             | <b>Dimmer</b><br>Closed - Open                           |
| 2           |             |                    |  |
| 3           |             |                    |  |
| 4           |             |                    |  |
| 5           | 0-5000      | 0%                 | <b>Green / Magenta</b>                                   |
|             | 5001-10000  | Full Magenta(100%) |  |
|             | 10001-29999 | Magenta(99%-1%)    |  |
|             | 30000-40000 | 0%                 |  |
| 6           | 40001-59999 | Green(1%-99%)      |  |
|             | 60000-65535 | Green(100%)        |  |
|             | 0-65535     | 0-100%             | <b>Crossfade</b><br>0 full CCT, 65535 full RGBWW, smooth |
| 8           |             |                    |  |
| 9           | 0-127       | 3200K              | <b>3200K</b>   |
|             | 128-255     | 5600K              | <b>5600K</b>   |
| 10          | 0-127       | Group I            | <b>Select Group I</b>                                    |
|             | 128-255     | Group II           | <b>Select Group II</b>                                   |
| 11          | 0-121       | 1-122              | <b>GEL Filter Number in Group I</b>                      |
|             | 0-190       | 123-313            | <b>GEL Filter Number in Group II</b>                     |

**MODE 18 RGBWW+HSI 8 Bit - 9 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |
| 2           | 0-255     | 0-100%  | <b>Red</b><br>Formular: per = DMX_value *0.392                     |
| 3           | 0-255     | 0-100%  | <b>Green</b><br>Formular: per = DMX_value *0.392                   |
| 4           | 0-255     | 0-100%  | <b>Blue</b><br>Formular: per = DMX_value *0.392                    |
| 5           | 0-255     | 0-100%  | <b>Warm White</b><br>Formular: per = DMX_value *0.392              |

|   |       |        |  |
|---|-------|--------|--|
| 6 | 0-255 | 0-100% | <b>Cool White</b><br>Formular: per = DMX_value *0.392                  |
| 7 | 0-255 | 0-100% | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW, smooth fade            |
| 8 | 0-255 | 0-360  | <b>HUE</b><br>Formular: HUE = DMX_value *1.4118                        |
| 9 | 0-255 | 0-100% | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |

**MODE 19 RGBWW+HSI 16 Bit - 18 CH**

| DMX Channel | DMX Value | Range  | Function                             |
|-------------|-----------|--------|--------------------------------------|
| 1           | 0-65535   | 0-100% | <b>Dimmer</b>                        |
| 2           |           |        | Closed - Open                        |
| 3           | 0-65535   | 0-100% | <b>Red</b>                           |
| 4           |           |        | Formular: per = DMX_value /655.35    |
| 5           | 0-65535   | 0-100% | <b>Green</b>                         |
| 6           |           |        | Formular: per = DMX_value /655.35    |
| 7           | 0-65535   | 0-100% | <b>Blue</b>                          |
| 8           |           |        | Formular: per = DMX_value /655.35    |
| 9           | 0-65535   | 0-100% | <b>Warm White</b>                    |
| 10          |           |        | Formular: per = DMX_value /655.35    |
| 11          | 0-65535   | 0-100% | <b>Cool White</b>                    |
| 12          |           |        | Formular: per = DMX_value /655.35    |
| 13          | 0-65535   | 0-100% | <b>Crossfade</b>                     |
| 14          |           |        | 0 full CCT, 65535 full RGBWW, smooth |
| 15          | 0-65535   | 0-360  | <b>Hue</b>                           |
| 16          |           |        | Formular: per = DMX_value *0.005493  |
| 17          | 0-65535   | 0-100% | <b>Saturation</b>                    |
| 18          |           |        | Closed - Open                        |

**MODE 20 RGBWW+XY 8 Bit - 9 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |
| 2           | 0-255     | 0-100%  | <b>Red</b><br>Formular: per = DMX_value *0.392                     |
| 3           | 0-255     | 0-100%  | <b>Green</b><br>Formular: per = DMX_value *0.392                   |
| 4           | 0-255     | 0-100%  | <b>Blue</b><br>Formular: per = DMX_value *0.392                    |
| 5           | 0-255     | 0-100%  | <b>Warm White</b><br>Formular: per = DMX_value *0.392              |
| 6           | 0-255     | 0-100%  | <b>Cool White</b><br>Formular: per = DMX_value *0.392              |
| 7           | 0-255     | 0-100%  | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW, smooth fade        |
| 8           | 0-255     | X*255   | <b>X Coordinate</b><br>Formular: X = DMX_value /255                |
| 9           | 0-255     | Y*255   | <b>Y Coordinate</b><br>Formular: Y = DMX_value /255                |

**MODE 21 RGBWW+XY 16 Bit - 18 CH**

| DMX Channel | DMX Value | Range  | Function                          |
|-------------|-----------|--------|-----------------------------------|
| 1           | 0-65535   | 0-100% | <b>Dimmer</b>                     |
| 2           |           |        | Closed - Open                     |
| 3           | 0-65535   | 0-100% | <b>Red</b>                        |
| 4           |           |        | Formular: per = DMX_value /655.35 |

|    |         |         |                                      |
|----|---------|---------|--------------------------------------|
| 5  | 0-65535 | 0-100%  | <b>Green</b>                         |
| 6  |         |         | Formular: per = DMX_value /655.35    |
| 7  | 0-65535 | 0-100%  | <b>Blue</b>                          |
| 8  |         |         | Formular: per = DMX_value /655.35    |
| 9  | 0-65535 | 0-100%  | <b>Warm</b>                          |
| 10 |         |         | Formular: per = DMX_value /655.35    |
| 11 | 0-65535 | 0-100%  | <b>Cool White</b>                    |
| 12 |         |         | Formular: per = DMX_value /655.35    |
| 13 | 0-65535 | 0-100%  | <b>Crossfade</b>                     |
| 14 |         |         | 0 full CCT, 65535 full RGBWW, smooth |
| 15 | 0-65535 | X*65535 | <b>X Coordinate</b>                  |
| 16 |         |         | Formular: X = DMX_value /65535       |
| 17 | 0-65535 | Y*65535 | <b>Y Coordinate</b>                  |
| 18 |         |         | Formular: Y = DMX_value /655.35      |

**MODE 22 HSI+XY 8 Bit - 6 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392     |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |
| 2           | 0-255     | 0-360   | <b>Hue</b><br>Closed - Open<br>Formular: HUE = DMX_value *1.4118       |
| 3           | 0-255     | 0-100%  | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
| 4           | 0-255     | 0-100%  | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW, smooth fade            |
| 5           | 0-255     | X*255   | <b>X Coordinate</b><br>Formular: X = DMX_value /255                    |
| 6           | 0-255     | Y*255   | <b>Y Coordinate</b><br>Formular: Y = DMX_value /255                    |

**MODE 23 HSI+XY 16 Bit - 12 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-65535   | 0-100%  | <b>Dimmer</b><br>Closed - Open                           |
| 2           |           |         |  |
| 3           | 0-65535   | 0-360   | <b>Hue</b><br>Closed - Open                              |
| 4           |           |         |  |
| 5           | 0-65535   | 0-100%  | <b>Saturation</b><br>Closed - Open                       |
| 6           |           |         |  |
| 7           | 0-65535   | 0-100%  | <b>Crossfade</b><br>0 full CCT, 65535 full RGBWW, smooth |
| 8           |           |         |  |
| 9           | 0-65535   | X*65535 | <b>X Coordinate</b><br>Formular: X = DMX_value /65535    |
| 10          |           |         |  |
| 11          | 0-65535   | Y*65535 | <b>Y Coordinate</b><br>Formular: Y = DMX_value /65535    |
| 12          |           |         |  |

**MODE 24 EFFECT - CCT Chase 7 CH**

| DMX Channel | DMX Value | Range       | Function   |
|-------------|-----------|-------------|--|
| 1           | 0-51      | 0-20%       | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392         |
|             | 51-102    | 20-40%      |  |
|             | 102-153   | 40-60%      |  |
|             | 153-204   | 60-80%      |  |
|             | 204-255   | 80-100%     |  |
| 2           | 000-014   |             | <b>CCT Chase</b>   |
| 3           | 0-255     | 2700-10000K | <b>CCT Start</b><br>Formular: Color Temperature = 2700 + DMX_value *28.627 |

|         |         |                                  |   |
|---------|---------|----------------------------------|---|
| 4       | 0-255   | 2700-10000K                      | <b>CCT Stop</b><br>Formular: Color Temperature = 2700 + DMX_value *28.627 |
| 5       | 0-20    | 0%                               | <b>Green / Magenta</b>  |
|         | 21-30   | Full Magenta(100%)               |   |
|         | 31-129  | Magenta(99%-1%)                  |   |
|         | 130-140 | 0%                               |   |
|         | 141-240 | Green(1%-99%)                    |   |
|         | 241-255 | Green(100%)                      |   |
| 6       | 10-19   | Loop time increase<br>60 seconds | <b>Loop time (max 600 second)</b>   |
|         | 20-29   | 120 seconds                      |   |
|         | 30-39   | 180 seconds                      |   |
|         | 40-49   | 240 seconds                      |   |
|         | 50-59   | 300 seconds                      |   |
|         | 60-69   | 360 seconds                      |   |
|         | 70-79   | 420 seconds                      |   |
|         | 80-89   | 480 seconds                      |   |
|         | 90-99   | 540 seconds                      |   |
|         | 7       | 0-50                             |   |
| 50-100  |         | 50-100 seconds                   |   |
| 100-150 |         | 100-150 seconds                  |   |
| 150-200 |         | 150-200 seconds                  |   |
| 200-255 |         | 200-255 seconds                  |   |

| <b>MODE 24 EFFECT - Color Chase 7 CH</b> |                  |                                  |  |
|--|------------------|----------------------------------|--|
| <b>DMX Channel</b>                       | <b>DMX Value</b> | <b>Range</b>                     | <b>Function</b>  |
| 1  | 0-255            | 0-100%                           | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392     |
| 2  | 015-026          |                                  | <b>Color Chase</b>   |
| 3  | 0-42             | 0°-60°                           | <b>HUE Start</b><br>Formular: HUE = DMX_value *1.4118                  |
|  | 42-85            | 60°-120°                         |  |
|  | 85-127           | 120°-180°                        |  |
|  | 127-170          | 180°-240°                        |  |
|  | 170-212          | 240°-300°                        |  |
|  | 212-255          | 300°-360°                        |  |
| 4  | 0-42             | 0°-60°                           | <b>HUE Stop</b><br>Formular: HUE = DMX_value *1.4118                   |
|  | 42-85            | 60°-120°                         |  |
|  | 85-127           | 120°-180°                        |  |
|  | 127-170          | 180°-240°                        |  |
|  | 170-212          | 240°-300°                        |  |
|  | 212-255          | 300°-360°                        |  |
| 5  | 0-255            | 0%                               | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
| 6  | 10-19            | Loop time increase<br>60 seconds | <b>Loop time (max 600 second)</b>                                      |
|  | 20-29            | 120 seconds                      |  |
|  | 30-39            | 180 seconds                      |  |
|  | 40-49            | 240 seconds                      |  |
|  | 50-59            | 300 seconds                      |  |
|  | 60-69            | 360 seconds                      |  |
|  | 70-79            | 420 seconds                      |  |
|  | 80-89            | 480 seconds                      |  |
|  | 90-99            | 540 seconds                      |  |

|   |   |   |                    |
|---|---|---|--------------------|
| 7 | 0-50<br>50-100<br>100-150<br>150-200<br>200-255 | 0-50 seconds<br>50-100 seconds<br>100-150 seconds<br>150-200 seconds<br>200-255 seconds | <b>Second/Loop</b> |
|---|---|---|--------------------|

| MODE 24     |           | EFFECT - Fireworks | 7 CH   |
|-------------|-----------|--------------------|--|
| DMX Channel | DMX Value | Range              | Function   |
| 1           | 0-51      | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392     |
|             | 51-102    | 20-40%             |  |
|             | 102-153   | 40-60%             |  |
|             | 153-204   | 60-80%             |  |
|             | 204-255   | 80-100%            |  |
| 2           | 027-039   |                    | <b>Fireworks</b>   |
| 3           | 0-255     | 0-360              | <b>HUE Start</b><br>Formular: HUE = DMX_value *1.4118                  |
| 4           | 0-255     | 0-360              | <b>HUE Stop</b><br>Formular: HUE = DMX_value *1.4118                   |
| 5           | 0-255     | 0-100%             | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
| 6           | 0-255     | 0-60               | <b>Explosion/min</b><br>Formular: speed = dmx_value/4.25               |
| 7           | 0-255     | 5-95               | <b>Duration</b><br>Formular: duty = 5+DMX_value *0.353                 |

| MODE 24     |           | EFFECT - Fire | 4 CH   |
|-------------|-----------|---------------|--|
| DMX Channel | DMX Value | Range         | Function   |
| 1           | 0-51      | 0-20%         | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|             | 51-102    | 20-40%        |  |
|             | 102-153   | 40-60%        |  |
|             | 153-204   | 60-80%        |  |
|             | 204-255   | 80-100%       |  |
| 2           | 040-052   |               | <b>Fire</b>  |
| 3           | 0-255     | 0-100         | <b>Wind Speed</b><br>Formular: per = DMX_value *0.392              |
| 4           | 0-49      | 0-49          | <b>Fire Type: Candle</b>   |
|             | 50-99     | 50-99         | <b>Fire Type: Campfire</b>   |
|             | 100-149   | 100-149       | <b>Fire Type: bonfire</b>  |

| MODE 24     |           | EFFECT - Explosion | 5 CH   |
|-------------|-----------|--------------------|--|
| DMX Channel | DMX Value | Range              | Function   |
| 1           | 0-51      | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|             | 51-102    | 20-40%             |  |
|             | 102-153   | 40-60%             |  |
|             | 153-204   | 60-80%             |  |
|             | 204-255   | 80-100%            |  |
| 2           | 053-065   |                    | <b>Explosion</b>   |
| 3           | 0-255     | 0-60               | <b>Explosion/min</b><br>Formular: speed = DMX_value /4.25          |
| 4           | 0-255     | 5-95               | <b>Duration</b><br>Formular: duty = 5 + DMX_value *0.353           |
| 5           | 0-49      | 0-49               | Fire Type: Warm  |
|             | 50-99     | 50-99              | <b>Fire Type: Cool</b>   |
|             | 100-149   | 100-149            | <b>Fire Type: Colors</b>   |

| MODE 24     |           | EFFECT - Lightning | 5 CH     |
|-------------|-----------|--------------------|----------|
| DMX Channel | DMX Value | Range              | Function |

|         |   |  |  |
|---------|---|--|--|
| 1       | 0-51<br>51-102<br>102-153<br>153-204<br>204-255 | 0-20%<br>20-40%<br>40-60%<br>60-80%<br>80-100% | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392   |
| 2       | 066-077   |  | <b>Lightning</b>   |
| 3       | 0-255   | 2700-10000K                                    | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+DMX_value *28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
| 4       | 0-20  | 0%   | <b>Green / Magenta</b>   |
|         | 21-30   | Full Magenta(100%)                             |  |
|         | 31-129  | Magenta(99%-1%)                                |  |
|         | 130-140   | 0%   |  |
|         | 141-240   | Green(1%-99%)                                  |  |
| 241-255 | Green(100%)                                     |  |  |
| 5       | 0-255   | 1-60   | <b>Intervals (Second)</b><br>Formular: time = DMX_value /4.25  |

| MODE 24 EFFECT - Paparazzi 6 CH |   |  |   |
|---------------------------------|---|--|---|
| DMX Channel                     | DMX Value                                       | Range  | Function  |
| 1                               | 0-51<br>51-102<br>102-153<br>153-204<br>204-255 | 0-20%<br>20-40%<br>40-60%<br>60-80%<br>80-100% | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392  |
| 2                               | 078-090   |  | <b>Paparazzi</b>  |
| 3                               | 0-255   | 2700-10000K                                    | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+<br>DMX_value*28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
| 4                               | 0-20  | 0%   | <b>Green / Magenta</b>  |
|                                 | 21-30   | Full Magenta(100%)                             |   |
|                                 | 31-129  | Magenta(99%-1%)                                |   |
|                                 | 130-140   | 0%   |   |
|                                 | 141-240   | Green(1%-99%)                                  |   |
| 241-255                         | Green(100%)                                     |  |   |
| 5                               | 0-255   | 0-25Hz   | <b>Frequency</b><br>Formular: frequency = DMX_value /10.2   |
| 6                               | 0-49  | 0-49   | <b>Bulb Type: Slow</b>  |
|                                 | 50-99   | 50-99  | <b>Bulb Type: Medium</b>  |
|                                 | 100-149   | 100-149  | <b>Bulb Type: Fast</b>  |
|                                 | 150-199   | 150-199  | <b>Bulb Type: Modern</b>  |

| MODE 24 EFFECT - Pulse 5 CH |   |  |  |
|-----------------------------|---|--|--|
| DMX Channel                 | DMX Value                                       | Range  | Function   |
| 1                           | 0-51<br>51-102<br>102-153<br>153-204<br>204-255 | 0-20%<br>20-40%<br>40-60%<br>60-80%<br>80-100% | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |



|   |         |        |  |
|---|---------|--------|--|
| 2 | 091-103 |        | <b>Pulse</b>   |
| 3 | 0-255   | 0-360  | <b>HUE</b><br>Formular: HUE = DMX_value *1.4118                        |
| 4 | 0-255   | 0-100% | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
| 5 | 0-255   | 1-200  | <b>Pulses/min</b><br>Formular: frequency = 1+DMX_value / 1.281         |

| MODE 24 EFFECT - Police 6 CH |           |         |  |
|------------------------------|-----------|---------|--|
| DMX Channel                  | DMX Value | Range   | Function   |
| 1                            | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|                              | 51-102    | 20-40%  |  |
|                              | 102-153   | 40-60%  |  |
|                              | 153-204   | 60-80%  |  |
|                              | 204-255   | 80-100% |  |
| 2                            | 104-116   |         | <b>Police</b>  |
| 3                            | 0-9       | 0-9     | <b>Colors: Red, Blue &amp; White</b>                               |
|                              | 10--19    | 10--19  | <b>Colors: Red &amp; Blue</b>                                      |
|                              | 20--29    | 20--29  | <b>Colors: Red &amp; White</b>                                     |
|                              | 30--39    | 30--39  | <b>Colors: Blue &amp; White</b>                                    |
|                              | 40--49    | 40--49  | <b>Colors: Blue</b>  |
|                              | 50--59    | 50--59  | <b>Colors: Red</b>   |
|                              | 60--69    | 60--69  | <b>Colors: Amber</b>   |
| 4                            | 0-49      | 0-49    | <b>Flash/cycle: 1</b>  |
|                              | 50-99     | 50-99   | <b>Flash/cycle: 2</b>  |
|                              | 100-149   | 100-149 | <b>Flash/cycle: 3</b>  |
|                              | 150-199   | 150-199 | <b>Flash/cycle: 4</b>  |
| 5                            | 0-255     | 0-100   | <b>Speed</b><br>Formular: per = DMX_value *0.392                   |
| 6                            | 0-255     | 5-95    | <b>Duration</b><br>Formular: duty = 5+ DMX_value *0.353            |

| MODE 24 EFFECT - Strobe Color 6 CH |           |         |  |
|------------------------------------|-----------|---------|--|
| DMX Channel                        | DMX Value | Range   | Function   |
| 1                                  | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392     |
|                                    | 51-102    | 20-40%  |  |
|                                    | 102-153   | 40-60%  |  |
|                                    | 153-204   | 60-80%  |  |
|                                    | 204-255   | 80-100% |  |
| 2                                  | 117-128   |         | <b>Strobe Color</b>  |
| 3                                  | 0-255     | 0-360   | <b>HUE</b><br>Formular: HUE = DMX_value *1.4118                        |
| 4                                  | 0-255     | 0-100   | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
| 5                                  | 0-255     | 0-25Hz  | <b>Frequency</b><br>Formular: Frequency = DMX_value /10.2              |
| 6                                  | 0-255     | 5-95    | <b>Duration</b><br>Formular: duty = 5+ DMX_value *0.353                |

| MODE 24 EFFECT - Strobe CCT 6 CH |           |         |  |
|----------------------------------|-----------|---------|--|
| DMX Channel                      | DMX Value | Range   | Function   |
| 1                                | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|                                  | 51-102    | 20-40%  |  |
|                                  | 102-153   | 40-60%  |  |
|                                  | 153-204   | 60-80%  |  |
|                                  | 204-255   | 80-100% |  |
| 2                                | 129-141   |         | <b>Strobe CCT</b>  |

|   |         |                    |  |
|---|---------|--------------------|--|
| 3 | 0-255   | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+DMX_value *28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
| 4 | 0-20    | 0%                 | <b>Green / Magenta</b>   |
|   | 21-30   | Full Magenta(100%) |  |
|   | 31-129  | Magenta(99%-1%)    |  |
|   | 130-140 | 0%                 |  |
|   | 141-240 | Green(1%-99%)      |  |
|   | 241-255 | Green(100%)        |  |
| 5 | 0-255   | 0-25Hz             | <b>Frequency</b><br>Formular: frequency = DMX_value /10.2  |
| 6 | 0-255   | 5-95               | <b>Duration</b><br>Formular: duty = 5+ DMX_value *0.353  |

| MODE 25 Macro - 2 CH |           |         |  |
|----------------------|-----------|---------|--|
| DMX Channel          | DMX Value | Range   | Function   |
| 1                    | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|                      | 51-102    | 20-40%  |  |
|                      | 102-153   | 40-60%  |  |
|                      | 153-204   | 60-80%  |  |
|                      | 204-255   | 80-100% |  |
| 2                    | 0-46      | 0-46    | Pls check: Appendix I Macro  |

| RANK MODE (RANK 1 - 2) |               |                  |  |         |                    |
|------------------------|---------------|------------------|--|---------|--------------------|
| RANK 1 - MODE 1        |               | CCT 8 Bit - 3 CH |  |         |                    |
| DMX Channel            | DMX Value     | Range            | Function   |         |                    |
| 1                      | 0-51          | 0-20%            | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392   |         |                    |
|                        | 51-102        | 20-40%           |  |         |                    |
|                        | 102-153       | 40-60%           |  |         |                    |
|                        | 153-204       | 60-80%           |  |         |                    |
|                        | 204-255       | 80-100%          |  |         |                    |
| 2                      | 0-255         | 2700-10000K      | <b>Color Temperature</b><br>Closed - Open<br><br>Formular:<br>Color Temperature = 2700+DMX_value *28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |         |                    |
|                        |               |                  | <b>Green / Magenta</b>   |         |                    |
|                        |               |                  |  | 0-20    | 0                  |
|                        |               |                  |  | 21-30   | Full Magenta(100%) |
|                        |               |                  |  | 30-130  | Magenta(99%-1%)    |
|                        |               |                  |  | 130-140 | 0%                 |
| 141-240                | Green(1%-99%) |                  |  |         |                    |
| 241-255                | Green(100%)   |                  |  |         |                    |

**RANK 2 - MODE 1 CCT 8 Bit - 3 CH**  
DMX Channel 4 - 6, the value and function is same as RANK 1

| RANK 1 - MODE 2 |           | CCT 16 Bit - 6 CH |               |
|-----------------|-----------|-------------------|---------------|
| DMX Channel     | DMX Value | Range             | Function      |
| 1               | 0-65535   | 0-100%            | <b>Dimmer</b> |

|   |             |                    |                          |
|---|-------------|--------------------|--------------------------|
| 2 | 0-65535     | 0-100%             | Closed - Open            |
| 3 | 0-65535     | 2700-10000K        | <b>Color Temperature</b> |
| 4 |             |                    | Closed - Open            |
| 5 | 0-5000      | 0%                 | <b>Green / Magenta</b>   |
|   | 5001-10000  | Full Magenta(100%) |                          |
|   | 10001-29999 | Magenta(99%-1%)    |                          |
| 6 | 30000-40000 | 0%                 |                          |
|   | 40001-59999 | Green(1%-99%)      |                          |
|   | 60000-65535 | Green(100%)        |                          |

**RANK 2 - MODE 2 CCT 16 Bit - 6 CH**

DMX Channel 7 - 12, the value and function is same as RANK 1

**RANK 1 - MODE 3 HSI 8 Bit - 3 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392     |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |
| 2           | 0-255     | 0-360   | <b>Hue</b><br>Closed - Open<br>Formular: HUE = DMX_value *1.4118       |
| 3           | 0-255     | 0-100%  | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |

**RANK 2 - MODE 3 HSI 8 Bit - 3 CH**

DMX Channel 4 - 6, the value and function is same as RANK 1

**RANK 1 - MODE 4 HSI 16 Bit - 6 CH**

| DMX Channel | DMX Value | Range  | Function                           |
|-------------|-----------|--------|------------------------------------|
| 1           | 0-65535   | 0-100% | <b>Dimmer</b><br>Closed - Open     |
| 2           |           |        |                                    |
| 3           | 0-65535   | 0-360  | <b>Hue</b><br>Closed - Open        |
| 4           |           |        |                                    |
| 5           | 0-65535   | 0-100% | <b>Saturation</b><br>Closed - Open |
| 6           |           |        |                                    |

**RANK 2 - MODE 4 HSI 16 Bit - 6 CH**

DMX Channel 7 - 12, the value and function is same as RANK 1

**RANK 1 - MODE 5 XY 8 Bit - 3 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |
| 2           | 0-255     | X*255   | <b>X Coordinate</b><br>Formular: X = DMX_value /255                |
| 3           | 0-255     | Y*255   | <b>Y Coordinate</b><br>Formular: Y = DMX_value /255                |

**RANK 2 - MODE 5 XY 8 Bit - 3 CH**

DMX Channel 4 - 6, the value and function is same as RANK 1

**RANK 1 - MODE 6 XY 16 Bit - 6 CH**

| DMX Channel | DMX Value | Range   | Function  |
|-------------|-----------|---------|---|
| 1           | 0-65535   | 0-100%  | <b>Dimmer</b><br>Closed - Open                        |
| 2           |           |         |   |
| 3           | 0-65535   | X*65535 | <b>X Coordinate</b><br>Formular: X = DMX_value /65535 |
| 4           |           |         |   |

|   |         |         |   |
|---|---------|---------|---|
| 5 | 0-65535 | Y*65535 | <b>Y Coordinate</b><br>Formular: Y = DMX_value /65535 |
| 6 |         |         |   |

**RANK 2 - MODE 6 XY 16 Bit - 6 CH**  
DMX Channel 7 - 12, the value and function is same as RANK 1

**RANK 3 - MODE 6 XY 16 Bit - 6 CH**  
DMX Channel 13 - 18, the value and function is same as RANK 1

**RANK 1 - MODE 7 RGBWW 8 Bit - 6 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |
| 2           | 0-255     | 0-100%  | <b>Red</b><br>Formular: per = DMX_value *0.392                     |
| 3           | 0-255     | 0-100%  | <b>Green</b><br>Formular: per = DMX_value *0.392                   |
| 4           | 0-255     | 0-100%  | <b>Blue</b><br>Formular: per = DMX_value *0.392                    |
| 5           | 0-255     | 0-100%  | <b>Warm White</b><br>Formular: per = DMX_value *0.392              |
| 6           | 0-255     | 0-100%  | <b>Cool White</b><br>Formular: per = DMX_value *0.392              |

**RANK 2 - MODE 7 RGBWW 8 Bit - 6 CH**  
DMX Channel 7 - 12, the value and function is same as RANK 1

**RANK 1 - MODE 8 RGBWW 16 Bit - 12 CH**

| DMX Channel | DMX Value | Range  | Function   |
|-------------|-----------|--------|--|
| 1           | 0-65535   | 0-100% | <b>Dimmer</b><br>Closed - Open                         |
| 2           |           |        |  |
| 3           | 0-65535   | 0-100% | <b>Red</b><br>Formular: per = DMX_value /655.35        |
| 4           |           |        |  |
| 5           | 0-65535   | 0-100% | <b>Green</b><br>Formular: per = DMX_value /655.35      |
| 6           |           |        |  |
| 7           | 0-65535   | 0-100% | <b>Blue</b><br>Formular: per = DMX_value /655.35       |
| 8           |           |        |  |
| 9           | 0-65535   | 0-100% | <b>Warm White</b><br>Formular: per = DMX_value /655.35 |
| 10          |           |        |  |
| 11          | 0-65535   | 0-100% | <b>Cool White</b><br>Formular: per = DMX_value /655.35 |
| 12          |           |        |  |

**RANK 2 - MODE 8 RGBWW 16 Bit - 12 CH**  
DMX Channel 13 - 24, the value and function is same as RANK 1

|   |         |          |                                      |
|---|---------|----------|--------------------------------------|
| 3 | 0-127   | Group I  | <b>Select Group I</b>                |
|   | 128-255 | Group II | <b>Select Group II</b>               |
| 4 | 0-121   | 1-122    | <b>GEL Filter Number in Group I</b>  |
|   | 0-190   | 123-313  | <b>GEL Filter Number in Group II</b> |

**RANK 2 - MODE 9 GEL 8 Bit - 4 CH**  
DMX Channel 5 - 8, the value and function is same as RANK 1

**RANK 1 - MODE 10 CCT+RGBWW 8 Bit - 9 CH**

| DMX Channel | DMX Value | Range           | Function   |
|-------------|-----------|-----------------|--|
| 1           | 0-51      | 0-20%           | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|             | 51-102    | 20-40%          |  |
|             | 102-153   | 40-60%          |  |
|             | 153-204   | 60-80%          |  |
|             | 204-255   | 80-100%         |  |
|             | 31-129    | Magenta(99%-1%) |  |
|             | 130-140   | 0%              |  |

|   |         |               |   |
|---|---------|---------------|---|
|   | 141-240 | Green(1%-99%) |   |
|   | 241-255 | Green(100%)   |   |
| 4 | 0-255   | 0-100%        | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW, smooth fade |
| 5 | 0-255   | 0-100%        | <b>Red</b><br>Formular: per = DMX_value *0.392              |
| 6 | 0-255   | 0-100%        | <b>Green</b><br>Formular: per = DMX_value *0.392            |
| 7 | 0-255   | 0-100%        | <b>Blue</b><br>Formular: per = DMX_value *0.392             |
| 8 | 0-255   | 0-100%        | <b>Warm White</b><br>Formular: per = DMX_value *0.392       |
| 9 | 0-255   | 0-100%        | <b>Cool White</b><br>Formular: per = DMX_value *0.392       |

**RANK 2 - MODE 10 CCT+RGBWW 8 Bit - 9 CH**  
DMX Channel 10 - 18, the value and function is same as RANK 1

**RANK 1 - MODE 11 CCT+RGBWW 16 Bit - 18 CH**

| DMX Channel | DMX Value   | Range              | Function   |
|-------------|-------------|--------------------|--|
| 1           | 0-65535     | 0-100%             | <b>Dimmer</b><br>Closed - Open                           |
| 2           |             |                    |  |
| 3           | 0-65535     | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open                |
| 4           |             |                    |  |
| 5           | 0-5000      | 0%                 | <b>Green / Magenta</b>                                   |
|             | 5001-10000  | Full Magenta(100%) |  |
|             | 10001-29999 | Magenta(99%-1%)    |  |
| 6           | 30000-40000 | 0%                 |  |
|             | 40001-59999 | Green(1%-99%)      |  |
|             | 60000-65535 | Green(100%)        |  |
| 7           | 0-65535     | 0-100%             | <b>Crossfade</b><br>0 full CCT, 65535 full RGBWW, smooth |
| 8           |             |                    |  |
| 9           | 0-65535     | 0-100%             | <b>Red</b><br>Formular: per = DMX_value /655.35          |
| 10          |             |                    |  |
| 11          | 0-65535     | 0-100%             | <b>Green</b><br>Formular: per = DMX_value /655.35        |
| 12          |             |                    |  |
| 13          | 0-65535     | 0-100%             | <b>Blue</b><br>Formular: per = DMX_value /655.35         |
| 14          |             |                    |  |
| 15          | 0-65535     | 0-100%             | <b>Warm White</b><br>Formular: per = DMX_value /655.35   |
| 16          |             |                    |  |
| 17          | 0-65535     | 0-100%             | <b>Cool White</b><br>Formular: per = DMX_value /655.35   |
| 18          |             |                    |  |

**RANK 2 - MODE 11 CCT+RGBWW 16 Bit - 18 CH**  
DMX Channel 19 - 36, the value and function is same as RANK 1

**RANK 1 - MODE 12 CCT+HSI 8 Bit - 6 CH**

| DMX Channel | DMX Value | Range       | Function   |
|-------------|-----------|-------------|--|
| 1           | 0-51      | 0-20%       | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392   |
|             | 51-102    | 20-40%      |  |
|             | 102-153   | 40-60%      |  |
|             | 153-204   | 60-80%      |  |
|             | 204-255   | 80-100%     |  |
| 2           | 0-255     | 2700-10000K | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+DMX_value *28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |

|   |         |                    |  |
|---|---------|--------------------|--|
| 3 | 0-20    | 0%                 | <b>Green / Magenta</b>   |
|   | 21-30   | Full Magenta(100%) |  |
|   | 31-129  | Magenta(99%-1%)    |  |
|   | 130-140 | 0%                 |  |
|   | 141-240 | Green(1%-99%)      |  |
|   | 241-255 | Green(100%)        |  |
| 4 | 0-255   | 0-100%             | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW, smooth fade            |
| 5 | 0-255   | 0-360              | <b>HUE</b><br>Formular: HUE = DMX_value *1.4118                        |
| 6 | 0-255   | 0-100%             | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |

**RANK 2 - MODE 12 CCT+HSI 8 Bit - 6 CH**

DMX Channel 7 - 12, the value and function is same as RANK 1

**RANK 1 - MODE 13 CCT+HSI 16 Bit - 12 CH**

| DMX Channel | DMX Value   | Range              | Function   |
|-------------|-------------|--------------------|--|
| 1           | 0-65535     | 0-100%             | <b>Dimmer</b><br>Closed – Open                           |
| 2           |             |                    |  |
| 3           | 0-65535     | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open                |
| 4           |             |                    |  |
| 5           | 0-5000      | 0%                 | <b>Green / Magenta</b>                                   |
|             | 5001-10000  | Full Magenta(100%) |  |
|             | 10001-29999 | Magenta(99%-1%)    |  |
| 6           | 30000-40000 | 0%                 |  |
|             | 40001-59999 | Green(1%-99%)      |  |
|             | 60000-65535 | Green(100%)        |  |
| 7           | 0-65535     | 0-100%             | <b>Crossfade</b><br>0 full CCT, 65535 full RGBWW, smooth |
| 8           |             |                    |  |
| 9           | 0-65535     | 0-360              | <b>HUE</b><br>Formular: HUE = DMX_value *0.005493        |
| 10          |             |                    |  |
| 11          | 0-65535     | 0-100%             | <b>Saturation</b><br>Closed - Open                       |
| 12          |             |                    |  |

**RANK 2 - MODE 13 CCT+HSI 16 Bit - 12 CH**

DMX Channel 13 - 24, the value and function is same as RANK 1

**RANK 1 - MODE 14 CCT+XY 8 Bit - 6 CH**

| DMX Channel | DMX Value | Range              | Function   |
|-------------|-----------|--------------------|--|
| 1           | 0-51      | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392   |
|             | 51-102    | 20-40%             |  |
|             | 102-153   | 40-60%             |  |
|             | 153-204   | 60-80%             |  |
|             | 204-255   | 80-100%            |  |
| 2           | 0-255     | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+DMX_value *28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
| 3           | 0-20      | 0%                 | <b>Green / Magenta</b>   |
|             | 21-30     | Full Magenta(100%) |  |
|             | 31-129    | Magenta(99%-1%)    |  |
|             | 130-140   | 0%                 |  |
|             | 141-240   | Green(1%-99%)      |  |
|             | 241-255   | Green(100%)        |  |

|   |       |        |   |
|---|-------|--------|---|
| 4 | 0-255 | 0-100% | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW, smooth fade |
| 5 | 0-255 | X*255  | <b>X Coordinate</b><br>Formular: X = DMX_value /255         |
| 6 | 0-255 | Y*255  | <b>Y Coordinate</b><br>Formular: Y = DMX_value /255         |

**RANK 2 - MODE 14 CCT+XY 8 Bit - 6 CH**

DMX Channel 7 - 12, the value and function is same as RANK 1

**RANK 1 - MODE 15 CCT+XY 16 Bit - 12 CH**

| DMX Channel | DMX Value   | Range       | Function   |
|-------------|-------------|-------------|--|
| 1           | 0-65535     | 0-100%      | <b>Dimmer</b><br>Closed - Open                           |
| 2           |             |             |  |
| 3           | 0-65535     | 2700-10000K | <b>Color Temperature</b><br>Closed - Open                |
| 4           |             |             |  |
| 5           | 0-5000      | 0-100%      | <b>Green / Magenta</b>                                   |
|             | 5001-10000  | 0-100%      |  |
|             | 10001-29999 | 0-100%      |  |
| 6           | 30000-40000 | 0%          |  |
|             | 40001-59999 | 0-100%      |  |
|             | 60000-65535 | 0-100%      |  |
| 7           | 0-65535     | 0-100%      | <b>Crossfade</b><br>0 full CCT, 65535 full RGBWW, smooth |
| 8           |             |             |  |
| 9           |             |             |  |
| 10          | 0-65535     | X*65535     | <b>X Coordinate</b><br>Formular: X = DMX_value /65535    |
| 11          | 0-65535     | Y*65535     | <b>Y Coordinate</b><br>Formular: Y = DMX_value /65535    |
| 12          |             |             |  |

**RANK 2 - MODE 15 CCT+XY 16 Bit - 12 CH**

DMX Channel 13 - 24, the value and function is same as RANK 1

**RANK 1 - MODE 16 CCT+GEL 8 Bit - 7 CH**

| DMX Channel | DMX Value   | Range              | Function   |
|-------------|-------------|--------------------|--|
| 1           | 0-51        | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392   |
|             | 51-102      | 20-40%             |  |
|             | 102-153     | 40-60%             |  |
|             | 153-204     | 60-80%             |  |
|             | 204-255     | 80-100%            |  |
| 2           | 0-255       | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+DMX_value *28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
| 3           | 0-20        | 0%                 | <b>Green / Magenta</b>   |
|             | 21-30       | Full Magenta(100%) |  |
|             | 31-129      | Magenta(99%-1%)    |  |
|             | 130-140     | 0%                 |  |
|             | 141-240     | Green(1%-99%)      |  |
| 241-255     | Green(100%) |                    |  |
| 4           | 0-255       | 0-100%             | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW, smooth fade  |
| 5           | 0-127       | 3200K              | <b>3200K</b>   |
|             | 128-255     | 5600K              | <b>5600K</b>   |
| 6           | 0-127       | Group I            | <b>Select Group I</b>  |
|             | 128-255     | Group II           | <b>Select Group II</b>   |
| 7           | 0-121       | 1-122              | <b>GEL Filter Number in Group I</b>  |

|  |       |         |                               |
|--|-------|---------|-------------------------------|
|  | 0-190 | 123-313 | GEL Filter Number in Group II |
|--|-------|---------|-------------------------------|

**RANK 2 - MODE 16 CCT+GEL 8 Bit - 7 CH**

DMX Channel 8 - 14, the value and function is same as RANK 1

**RANK 1 - MODE 17 CCT+GEL 16 Bit - 11 CH**

| DMX Channel | DMX Value   | Range              | Function   |
|-------------|-------------|--------------------|--|
| 1           | 0-65535     | 0-100%             | <b>Dimmer</b><br>Closed - Open                           |
| 2           |             |                    |  |
| 3           | 0-65535     | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open                |
| 4           |             |                    |  |
| 5           | 0-5000      | 0%                 | <b>Green / Magenta</b>                                   |
|             | 5001-10000  | Full Magenta(100%) |  |
|             | 10001-29999 | Magenta(99%-1%)    |  |
| 6           | 30000-40000 | 0%                 |  |
|             | 40001-59999 | Green(1%-99%)      |  |
|             | 60000-65535 | Green(100%)        |  |
| 7           | 0-65535     | 0-100%             | <b>Crossfade</b><br>0 full CCT, 65535 full RGBWW, smooth |
| 8           |             |                    |  |
| 9           | 0-127       | 3200K              | <b>3200K</b>   |
|             | 128-255     | 5600K              | <b>5600K</b>   |
| 10          | 0-127       | Group I            | <b>Select Group I</b>                                    |
|             | 128-255     | Group II           | <b>Select Group II</b>                                   |
| 11          | 0-121       | 1-122              | <b>GEL Filter Number in Group I</b>                      |
|             | 0-190       | 123-313            | <b>GEL Filter Number in Group II</b>                     |

**RANK 2 - MODE 17 CCT+GEL 16 Bit - 11 CH**

DMX Channel 12 - 22, the value and function is same as RANK 1

**RANK 1 - MODE 18 RGBWW+HSI 8 Bit - 9 CH**

| DMX Channel | DMX Value | Range   | Function  |
|-------------|-----------|---------|---|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value * 0.392     |
|             | 51-102    | 20-40%  |   |
|             | 102-153   | 40-60%  |   |
|             | 153-204   | 60-80%  |   |
|             | 204-255   | 80-100% |   |
| 2           | 0-255     | 0-100%  | <b>Red</b><br>Formular: per = DMX_value * 0.392                         |
| 3           | 0-255     | 0-100%  | <b>Green</b><br>Formular: per = DMX_value * 0.392                       |
| 4           | 0-255     | 0-100%  | <b>Blue</b><br>Formular: per = DMX_value * 0.392                        |
| 5           | 0-255     | 0-100%  | <b>Warm White</b><br>Formular: per = DMX_value * 0.392                  |
| 6           | 0-255     | 0-100%  | <b>Cool White</b><br>Formular: per = DMX_value * 0.392                  |
| 7           | 0-255     | 0-100%  | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW, smooth fade             |
| 8           | 0-255     | 0-360   | <b>HUE</b><br>Formular: HUE = DMX_value * 1.4118                        |
| 9           | 0-255     | 0-100%  | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value * 0.392 |

**RANK 2 - MODE 18 RGBWW+HSI 8 Bit - 9 CH**

DMX Channel 10 - 18, the value and function is same as RANK 1

**RANK 1 - MODE 19 RGBWW+HSI 16 Bit - 18 CH**

| DMX Channel | DMX Value | Range  | Function                       |
|-------------|-----------|--------|--------------------------------|
| 1           | 0-65535   | 0-100% | <b>Dimmer</b><br>Closed - Open |
| 2           |           |        |                                |
| 3           | 0-65535   | 0-100% | <b>Red</b>                     |



|    |         |        |                                      |
|----|---------|--------|--------------------------------------|
| 4  | 0-65535 | 0-100% | Formular: per = DMX_value /655.35    |
| 5  | 0-65535 | 0-100% | <b>Green</b>                         |
| 6  |         |        | Formular: per = DMX_value /655.35    |
| 7  | 0-65535 | 0-100% | <b>Blue</b>                          |
| 8  |         |        | Formular: per = DMX_value /655.35    |
| 9  | 0-65535 | 0-100% | <b>Warm White</b>                    |
| 10 |         |        | Formular: per = DMX_value /655.35    |
| 11 | 0-65535 | 0-100% | <b>Cool White</b>                    |
| 12 |         |        | Formular: per = DMX_value /655.35    |
| 13 | 0-65535 | 0-100% | <b>Crossfade</b>                     |
| 14 |         |        | 0 full CCT, 65535 full RGBWW, smooth |
| 15 | 0-65535 | 0-360  | <b>Hue</b>                           |
| 16 |         |        | Formular: per = DMX_value *0.005493  |
| 17 | 0-65535 | 0-100% | <b>Saturation</b>                    |
| 18 |         |        | Closed - Open                        |

**RANK 2 - MODE 19 RGBWW+HSI 16 Bit - 18 CH**

DMX Channel 19 - 36, the value and function is same as RANK 1

**RANK 1 - MODE 20 RGBWW+XY 8 Bit - 9 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |
| 2           | 0-255     | 0-100%  | <b>Red</b><br>Formular: per = DMX_value *0.392                     |
| 3           | 0-255     | 0-100%  | <b>Green</b><br>Formular: per = DMX_value *0.392                   |
| 4           | 0-255     | 0-100%  | <b>Blue</b><br>Formular: per = DMX_value *0.392                    |
| 5           | 0-255     | 0-100%  | <b>Warm White</b><br>Formular: per = DMX_value *0.392              |
| 6           | 0-255     | 0-100%  | <b>Cool White</b><br>Formular: per = DMX_value *0.392              |
| 7           | 0-255     | 0-100%  | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW, smooth fade        |
| 8           | 0-255     | X*255   | <b>X Coordinate</b><br>Formular: X = DMX_value /255                |
| 9           | 0-255     | Y*255   | <b>Y Coordinate</b><br>Formular: Y = DMX_value /255                |

**RANK 2 - MODE 20 RGBWW+XY 8 Bit - 9 CH**

DMX Channel 10 - 18, the value and function is same as RANK 1

**RANK 1 - MODE 21 RGBWW+XY 16 Bit - 18 CH**

| DMX Channel | DMX Value | Range   | Function                             |
|-------------|-----------|---------|--------------------------------------|
| 1           | 0-65535   | 0-100%  | <b>Dimmer</b>                        |
| 2           |           |         | Closed - Open                        |
| 3           | 0-65535   | 0-100%  | <b>Red</b>                           |
| 4           |           |         | Formular: per = DMX_value /655.35    |
| 5           | 0-65535   | 0-100%  | <b>Green</b>                         |
| 6           |           |         | Formular: per = DMX_value /655.35    |
| 7           | 0-65535   | 0-100%  | <b>Blue</b>                          |
| 8           |           |         | Formular: per = DMX_value /655.35    |
| 9           | 0-65535   | 0-100%  | <b>Warm</b>                          |
| 10          |           |         | Formular: per = DMX_value /655.35    |
| 11          | 0-65535   | 0-100%  | <b>Cool White</b>                    |
| 12          |           |         | Formular: per = DMX_value /655.35    |
| 13          | 0-65535   | 0-100%  | <b>Crossfade</b>                     |
| 14          |           |         | 0 full CCT, 65535 full RGBWW, smooth |
| 15          | 0-65535   | X*65535 | <b>X Coordinate</b>                  |

|    |         |         |                                 |
|----|---------|---------|---------------------------------|
| 16 | 0-65535 | X*65535 | Formular: X = DMX_value /65535  |
| 17 | 0-65535 | Y*65535 | <b>Y Coordinate</b>             |
| 18 |         |         | Formular: Y = DMX_value /655.35 |

**RANK 2 - MODE 21 RGBWW+XY 16 Bit - 18 CH**  
DMX Channel 19 - 36, the value and function is same as RANK 1

| <b>RANK 1 - MODE 22 HSI+XY 8 Bit - 6 CH</b> |           |         |  |
|---|-----------|---------|--|
| DMX Channel                                 | DMX Value | Range   | Function   |
| 1   | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392     |
|   | 51-102    | 20-40%  |  |
|   | 102-153   | 40-60%  |  |
|   | 153-204   | 60-80%  |  |
|   | 204-255   | 80-100% |  |
| 2   | 0-255     | 0-360   | <b>Hue</b><br>Closed - Open<br>Formular: HUE = DMX_value *1.4118       |
| 3   | 0-255     | 0-100%  | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
| 4   | 0-255     | 0-100%  | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW, smooth fade            |
| 5   | 0-255     | X*255   | <b>X Coordinate</b><br>Formular: X = DMX_value /255                    |
| 6   | 0-255     | Y*255   | <b>Y Coordinate</b><br>Formular: Y = DMX_value /255                    |

**RANK 2 - MODE 22 HSI+XY 8 Bit - 6 CH**  
DMX Channel 7 - 12, the value and function is same as RANK 1

| <b>RANK 1 - MODE 23 HSI+XY 16 Bit - 12 CH</b> |           |         |  |
|---|-----------|---------|--|
| DMX Channel                                   | DMX Value | Range   | Function   |
| 1   | 0-65535   | 0-100%  | <b>Dimmer</b><br>Closed - Open                           |
| 2   |           |         |  |
| 3   | 0-65535   | 0-360   | <b>Hue</b><br>Closed - Open                              |
| 4   |           |         |  |
| 5   | 0-65535   | 0-100%  | <b>Saturation</b><br>Closed - Open                       |
| 6   |           |         |  |
| 7   | 0-65535   | 0-100%  | <b>Crossfade</b><br>0 full CCT, 65535 full RGBWW, smooth |
| 8   |           |         |  |
| 9   | 0-65535   | X*65535 | <b>X Coordinate</b><br>Formular: X = DMX_value /65535    |
| 10  |           |         |  |
| 11  | 0-65535   | Y*65535 | <b>Y Coordinate</b><br>Formular: Y = DMX_value /65535    |
| 12  |           |         |  |

**RANK 2 - MODE 23 HSI+XY 16 Bit - 12 CH**  
DMX Channel 13 - 24, the value and function is same as RANK 1

| <b>RANK 1 - MODE 24 EFFECT - CCT Chase 7 CH</b> |           |             |  |
|---|-----------|-------------|--|
| DMX Channel                                     | DMX Value | Range       | Function   |
| 1   | 0-51      | 0-20%       | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392         |
|   | 51-102    | 20-40%      |  |
|   | 102-153   | 40-60%      |  |
|   | 153-204   | 60-80%      |  |
|   | 204-255   | 80-100%     |  |
| 2   | 000-014   |             | <b>CCT Chase</b>   |
| 3   | 0-255     | 2700-10000K | <b>CCT Start</b><br>Formular: Color Temperature = 2700 + DMX_value *28.627 |
| 4   | 0-255     | 2700-10000K | <b>CCT Stop</b><br>Formular: Color Temperature = 2700 + DMX_value *28.627  |

|   |         |                                  |                                   |
|---|---------|----------------------------------|-----------------------------------|
| 5 | 0-20    | 0%                               | <b>Green / Magenta</b>            |
|   | 21-30   | Full Magenta(100%)               |                                   |
|   | 31-129  | Magenta(99%-1%)                  |                                   |
|   | 130-140 | 0%                               |                                   |
|   | 141-240 | Green(1%-99%)                    |                                   |
|   | 241-255 | Green(100%)                      |                                   |
| 6 | 10-19   | Loop time increase<br>60 seconds | <b>Loop time (max 600 second)</b> |
|   | 20-29   | 120 seconds                      |                                   |
|   | 30-39   | 180 seconds                      |                                   |
|   | 40-49   | 240 seconds                      |                                   |
|   | 50-59   | 300 seconds                      |                                   |
|   | 60-69   | 360 seconds                      |                                   |
|   | 70-79   | 420 seconds                      |                                   |
|   | 80-89   | 480 seconds                      |                                   |
|   | 90-99   | 540 seconds                      |                                   |
| 7 | 0-50    | 0-50 seconds                     | <b>Second/Loop</b>                |
|   | 50-100  | 50-100 seconds                   |                                   |
|   | 100-150 | 100-150 seconds                  |                                   |
|   | 150-200 | 150-200 seconds                  |                                   |
|   | 200-255 | 200-255 seconds                  |                                   |

**RANK 2 - MODE 24 EFFECT - CCT Chase 7 CH**  
DMX Channel 8 - 14, the value and function is same as RANK 1

| <b>RANK 1 - MODE 24 EFFECT - Color Chase 7 CH</b> |                  |              |  |                                  |                                   |
|---|------------------|--------------|--|----------------------------------|-----------------------------------|
| <b>DMX Channel</b>                                | <b>DMX Value</b> | <b>Range</b> | <b>Function</b>  |                                  |                                   |
| 1   | 0-255            | 0-100%       | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392     |                                  |                                   |
| 2   | 015-026          |              | <b>Color Chase</b>   |                                  |                                   |
| 3   | 0-42             | 0°-60°       | <b>HUE Start</b><br>Formular: HUE = DMX_value *1.4118                  |                                  |                                   |
|   | 42-85            | 60°-120°     |  |                                  |                                   |
|   | 85-127           | 120°-180°    |  |                                  |                                   |
|   | 127-170          | 180°-240°    |  |                                  |                                   |
|   | 170-212          | 240°-300°    |  |                                  |                                   |
| 4   | 212-255          | 300°-360°    | <b>HUE Stop</b><br>Formular: HUE = DMX_value *1.4118                   |                                  |                                   |
|   | 0-42             | 0°-60°       |  |                                  |                                   |
|   | 42-85            | 60°-120°     |  |                                  |                                   |
|   | 85-127           | 120°-180°    |  |                                  |                                   |
|   | 127-170          | 180°-240°    |  |                                  |                                   |
| 5   | 170-212          | 240°-300°    | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |                                  |                                   |
|   | 212-255          | 300°-360°    |  |                                  |                                   |
|   | 0-255            | 0%           |  |                                  |                                   |
|   | 6                | 10-19        |  | Loop time increase<br>60 seconds | <b>Loop time (max 600 second)</b> |
|   |                  | 20-29        |  | 120 seconds                      |                                   |
| 30-39   |                  | 180 seconds  |  |                                  |                                   |
| 40-49   |                  | 240 seconds  |  |                                  |                                   |
| 50-59   |                  | 300 seconds  |  |                                  |                                   |
| 60-69   |                  | 360 seconds  |  |                                  |                                   |
| 70-79   |                  | 420 seconds  |  |                                  |                                   |
| 80-89   |                  | 480 seconds  |  |                                  |                                   |
| 90-99   |                  | 540 seconds  |  |                                  |                                   |

|   |         |                 |                    |
|---|---------|-----------------|--------------------|
| 7 | 0-50    | 0-50 seconds    | <b>Second/Loop</b> |
|   | 50-100  | 50-100 seconds  |                    |
|   | 100-150 | 100-150 seconds |                    |
|   | 150-200 | 150-200 seconds |                    |
|   | 200-255 | 200-255 seconds |                    |

**RANK 2 - MODE 24 EFFECT - Color Chase 7 CH**  
DMX Channel 8 - 14, the value and function is same as RANK 1

| RANK 1 - MODE 24 |           | EFFECT - Fireworks | 7 CH   |
|------------------|-----------|--------------------|--|
| DMX Channel      | DMX Value | Range              | Function   |
| 1                | 0-51      | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392     |
|                  | 51-102    | 20-40%             |  |
|                  | 102-153   | 40-60%             |  |
|                  | 153-204   | 60-80%             |  |
|                  | 204-255   | 80-100%            |  |
| 2                | 027-039   |                    | <b>Fireworks</b>   |
| 3                | 0-255     | 0-360              | <b>HUE Start</b><br>Formular: HUE = DMX_value *1.4118                  |
| 4                | 0-255     | 0-360              | <b>HUE Stop</b><br>Formular: HUE = DMX_value *1.4118                   |
| 5                | 0-255     | 0-100%             | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
| 6                | 0-255     | 0-60               | <b>Explosion/min</b><br>Formular: speed = dm_x_value/4.25              |
| 7                | 0-255     | 5-95               | <b>Duration</b><br>Formular: duty = 5+DMX_value *0.353                 |

**RANK 2 - MODE 24 EFFECT - Fireworks 7 CH**  
DMX Channel 8 - 14, the value and function is same as RANK 1

| RANK 1 - MODE 24 |           | EFFECT - Fire | 4 CH   |
|------------------|-----------|---------------|--|
| DMX Channel      | DMX Value | Range         | Function   |
| 1                | 0-51      | 0-20%         | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|                  | 51-102    | 20-40%        |  |
|                  | 102-153   | 40-60%        |  |
|                  | 153-204   | 60-80%        |  |
|                  | 204-255   | 80-100%       |  |
| 2                | 040-052   |               | <b>Fire</b>  |
| 3                | 0-255     | 0-100         | <b>Wind Speed</b><br>Formular: per = DMX_value *0.392              |
| 4                | 0-49      | 0-49          | <b>Fire Type:</b> Candle   |
|                  | 50-99     | 50-99         | <b>Fire Type:</b> Campfire   |
|                  | 100-149   | 100-149       | <b>Fire Type:</b> bonfire  |

**RANK 1 - MODE 24 EFFECT - Fire 4 CH**  
DMX Channel 5 - 8, the value and function is same as RANK 1

| RANK 1 - MODE 24 |           | EFFECT - Explosion | 5 CH   |
|------------------|-----------|--------------------|--|
| DMX Channel      | DMX Value | Range              | Function   |
| 1                | 0-51      | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|                  | 51-102    | 20-40%             |  |
|                  | 102-153   | 40-60%             |  |
|                  | 153-204   | 60-80%             |  |
|                  | 204-255   | 80-100%            |  |
| 2                | 053-065   |                    | <b>Explosion</b>   |
| 3                | 0-255     | 0-60               | <b>Explosion/min</b><br>Formular: speed = DMX_value /4.25          |
| 4                | 0-255     | 5-95               | <b>Duration</b><br>Formular: duty = 5 + DMX_value *0.353           |
|                  | 0-49      | 0-49               | Fire Type: Warm  |

|   |         |         |                          |
|---|---------|---------|--------------------------|
| 5 | 50-99   | 50-99   | <b>Fire Type:</b> Cool   |
|   | 100-149 | 100-149 | <b>Fire Type:</b> Colors |

**RANK 2 - MODE 24 EFFECT - Explosion 5 CH**  
DMX Channel 6 - 10, the value and function is same as RANK 1

| RANK 1 - MODE 24 |             | EFFECT - Lightning |  | 5 CH |  |
|------------------|-------------|--------------------|--|------|--|
| DMX Channel      | DMX Value   | Range              | Function   |      |  |
| 1                | 0-51        | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392   |      |  |
|                  | 51-102      | 20-40%             |  |      |  |
|                  | 102-153     | 40-60%             |  |      |  |
|                  | 153-204     | 60-80%             |  |      |  |
|                  | 204-255     | 80-100%            |  |      |  |
| 2                | 50--59      |                    | <b>Lightning</b>   |      |  |
| 3                | 0-255       | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+DMX_value *28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |      |  |
| 4                | 0-20        | 0%                 | <b>Green / Magenta</b>   |      |  |
|                  | 21-30       | Full Magenta(100%) |  |      |  |
|                  | 31-129      | Magenta(99%-1%)    |  |      |  |
|                  | 130-140     | 0%                 |  |      |  |
|                  | 141-240     | Green(1%-99%)      |  |      |  |
| 241-255          | Green(100%) |                    |  |      |  |
| 5                | 0-255       | 1-60               | <b>Intervals (Second)</b><br>Formular: time = DMX_value /4.25  |      |  |

**RANK 2 - MODE 24 EFFECT - Lightning 5 CH**  
DMX Channel 6 - 10, the value and function is same as RANK 1

| RANK 1 - MODE 24 |             | EFFECT - Paparazzi |   | 6 CH |  |
|------------------|-------------|--------------------|---|------|--|
| DMX Channel      | DMX Value   | Range              | Function  |      |  |
| 1                | 0-51        | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392  |      |  |
|                  | 51-102      | 20-40%             |   |      |  |
|                  | 102-153     | 40-60%             |   |      |  |
|                  | 153-204     | 60-80%             |   |      |  |
|                  | 204-255     | 80-100%            |   |      |  |
| 2                | 078-090     |                    | <b>Paparazzi</b>  |      |  |
| 3                | 0-255       | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+<br>DMX_value*28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |      |  |
| 4                | 0-20        | 0%                 | <b>Green / Magenta</b>  |      |  |
|                  | 21-30       | Full Magenta(100%) |   |      |  |
|                  | 31-129      | Magenta(99%-1%)    |   |      |  |
|                  | 130-140     | 0%                 |   |      |  |
|                  | 141-240     | Green(1%-99%)      |   |      |  |
| 241-255          | Green(100%) |                    |   |      |  |
| 5                | 0-255       | 0-25Hz             | <b>Frequency</b><br>Formular: frequency = DMX_value /10.2   |      |  |
| 6                | 0-49        | 0-49               | <b>Bulb Type:</b> Slow  |      |  |
|                  | 50-99       | 50-99              | <b>Bulb Type:</b> Medium  |      |  |

|  |         |         |                          |
|--|---------|---------|--------------------------|
|  | 100-149 | 100-149 | <b>Bulb Type:</b> Fast   |
|  | 150-199 | 150-199 | <b>Bulb Type:</b> Modern |

**RANK 2 - MODE 24 EFFECT - Paparazzi 6 CH**  
DMX Channel 7 - 12, the value and function is same as RANK 1

| RANK 1 - MODE 24 |           | EFFECT - Pulse |  | 5 CH |  |
|------------------|-----------|----------------|--|------|--|
| DMX Channel      | DMX Value | Range          | Function   |      |  |
| 1                | 0-51      | 0-20%          | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392     |      |  |
|                  | 51-102    | 20-40%         |  |      |  |
|                  | 102-153   | 40-60%         |  |      |  |
|                  | 153-204   | 60-80%         |  |      |  |
|                  | 204-255   | 80-100%        |  |      |  |
| 2                | 091-103   |                | <b>Pulse</b>   |      |  |
| 3                | 0-255     | 0-360          | <b>HUE</b><br>Formular: HUE = DMX_value *1.4118                        |      |  |
| 4                | 0-255     | 0-100%         | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |      |  |
| 5                | 0-255     | 1-200          | <b>Pulses/min</b><br>Formular: frequency = 1+DMX_value / 1.281         |      |  |

**RANK 2 - MODE 24 EFFECT - Pulse 5 CH**  
DMX Channel 6 - 10, the value and function is same as RANK 1

| RANK 1 - MODE 24 |           | EFFECT - Police |  | 6 CH |  |
|------------------|-----------|-----------------|--|------|--|
| DMX Channel      | DMX Value | Range           | Function   |      |  |
| 1                | 0-51      | 0-20%           | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |      |  |
|                  | 51-102    | 20-40%          |  |      |  |
|                  | 102-153   | 40-60%          |  |      |  |
|                  | 153-204   | 60-80%          |  |      |  |
|                  | 204-255   | 80-100%         |  |      |  |
| 2                | 104-116   |                 | <b>Police</b>  |      |  |
| 3                | 0-9       | 0-9             | <b>Colors:</b> Red, Blue & White                                   |      |  |
|                  | 10--19    | 10--19          | <b>Colors:</b> Red & Blue  |      |  |
|                  | 20--29    | 20--29          | <b>Colors:</b> Red & White   |      |  |
|                  | 30--39    | 30--39          | <b>Colors:</b> Blue & White  |      |  |
|                  | 40--49    | 40--49          | <b>Colors:</b> Blue  |      |  |
|                  | 50--59    | 50--59          | <b>Colors:</b> Red   |      |  |
|                  | 60--69    | 60--69          | <b>Colors:</b> Amber   |      |  |
| 4                | 0-49      | 0-49            | <b>Flash/cycle:</b> 1  |      |  |
|                  | 50-99     | 50-99           | <b>Flash/cycle:</b> 2  |      |  |
|                  | 100-149   | 100-149         | <b>Flash/cycle:</b> 3  |      |  |
|                  | 150-199   | 150-199         | <b>Flash/cycle:</b> 4  |      |  |
| 5                | 0-255     | 0-100           | <b>Speed</b><br>Formular: per = DMX_value *0.392                   |      |  |
| 6                | 0-255     | 5-95            | <b>Duration</b><br>Formular: duty = 5+ DMX_value *0.353            |      |  |

**RANK 2 - MODE 24 EFFECT - Police 6 CH**  
DMX Channel 7 - 12, the value and function is same as RANK 1

| RANK 1 - MODE 24 |           | EFFECT - Strobe Color |  | 6 CH |  |
|------------------|-----------|-----------------------|--|------|--|
| DMX Channel      | DMX Value | Range                 | Function   |      |  |
| 1                | 0-51      | 0-20%                 | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |      |  |
|                  | 51-102    | 20-40%                |  |      |  |
|                  | 102-153   | 40-60%                |  |      |  |
|                  | 153-204   | 60-80%                |  |      |  |
|                  | 204-255   | 80-100%               |  |      |  |
| 2                | 117-128   |                       | <b>Strobe Color</b>  |      |  |

|   |       |        |  |
|---|-------|--------|--|
| 3 | 0-255 | 0-360  | <b>HUE</b><br>Formular: HUE = DMX_value *1.4118                        |
| 4 | 0-255 | 0-100  | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
| 5 | 0-255 | 0-25Hz | <b>Frequency</b><br>Formular: Frequency = DMX_value /10.2              |
| 6 | 0-255 | 5-95   | <b>Duration</b><br>Formular: duty = 5+ DMX_value *0.353                |

**RANK 2 - MODE 24 EFFECT - Strobe Color 6 CH**  
DMX Channel 7 - 12, the value and function is same as RANK 1

| RANK 1 - MODE 24 |             | EFFECT - Strobe CCT |  | 6 CH |  |
|------------------|-------------|---------------------|--|------|--|
| DMX Channel      | DMX Value   | Range               | Function   |      |  |
| 1                | 0-51        | 0-20%               | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392   |      |  |
|                  | 51-102      | 20-40%              |  |      |  |
|                  | 102-153     | 40-60%              |  |      |  |
|                  | 153-204     | 60-80%              |  |      |  |
|                  | 204-255     | 80-100%             |  |      |  |
| 2                | 129-141     |                     | <b>Strobe CCT</b>  |      |  |
| 3                | 0-255       | 2700-10000K         | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+DMX_value *28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |      |  |
| 4                | 0-20        | 0%                  | <b>Green / Magenta</b>   |      |  |
|                  | 21-30       | Full Magenta(100%)  |  |      |  |
|                  | 31-129      | Magenta(99%-1%)     |  |      |  |
|                  | 130-140     | 0%                  |  |      |  |
|                  | 141-240     | Green(1%-99%)       |  |      |  |
| 241-255          | Green(100%) |                     |  |      |  |
| 5                | 0-255       | 0-25Hz              | <b>Frequency</b><br>Formular: frequency = DMX_value /10.2  |      |  |
| 6                | 0-255       | 5-95                | <b>Duration</b><br>Formular: duty = 5+ DMX_value *0.353  |      |  |

**RANK 2 - MODE 24 EFFECT - Strobe CCT 6 CH**  
DMX Channel 7 - 12, the value and function is same as RANK 1

| RANK 1 - MODE 25 |           | Macro - 2 CH |  |  |  |
|------------------|-----------|--------------|--|--|--|
| DMX Channel      | DMX Value | Range        | Function   |  |  |
| 1                | 0-51      | 0-20%        | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |  |  |
|                  | 51-102    | 20-40%       |  |  |  |
|                  | 102-153   | 40-60%       |  |  |  |
|                  | 153-204   | 60-80%       |  |  |  |
|                  | 204-255   | 80-100%      |  |  |  |
| 2                | 0-46      | 0-46         | Pls check: Appendix I Macro  |  |  |

**RANK 2 - MODE 25 Macro - 2 CH**  
DMX Channel 3 - 4, the value and function is same as RANK 1

**INDIVIDUAL MODE (LIGHT 1 - 4)**

| LIGHT 1 - MODE 1 |           | CCT 8 Bit - 3 CH |          |  |  |
|------------------|-----------|------------------|----------|--|--|
| DMX Channel      | DMX Value | Range            | Function |  |  |

|   |   |  |  |
|---|---|--|--|
| 1 | 0-51<br>51-102<br>102-153<br>153-204<br>204-255 | 0-20%<br>20-40%<br>40-60%<br>60-80%<br>80-100% | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392   |
| 2 | 0-255   | 2700-10000K                                    | <b>Color Temperature</b><br>Closed - Open<br><br>Formular:<br>Color Temperature = 2700+DMX_value *28.627<br><br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
| 3 | 0-20  | 0  | <b>Green / Magenta</b>   |
|   | 21-30   | Full Magenta(100%)                             |  |
|   | 30-130  | Magenta(99%-1%)                                |  |
|   | 130-140   | 0%   |  |
|   | 141-240   | Green(1%-99%)                                  |  |
|   | 241-255   | Green(100%)                                    |  |

**LIGHT 2 - MODE 1 CCT 8 Bit - 3 CH**

DMX Channel 4 - 6, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 1 CCT 8 Bit - 3 CH**

DMX Channel 7 - 9, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 1 CCT 8 Bit - 3 CH**

DMX Channel 10 - 12, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 2 CCT 16 Bit - 6 CH**

| DMX Channel | DMX Value   | Range              | Function                                  |
|-------------|-------------|--------------------|---|
| 1           | 0-65535     | 0-100%             | <b>Dimmer</b><br>Closed - Open            |
| 2           |             |                    |   |
| 3           |             |                    |   |
| 4           | 0-65535     | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open |
| 5           |             |                    |   |
| 6           |             |                    |   |
| 5           | 0-5000      | 0%                 | <b>Green / Magenta</b>                    |
|             | 5001-10000  | Full Magenta(100%) |   |
|             | 10001-29999 | Magenta(99%-1%)    |   |
| 6           | 30000-40000 | 0%                 |   |
|             | 40001-59999 | Green(1%-99%)      |   |
|             | 60000-65535 | Green(100%)        |   |

**LIGHT 2 - MODE 2 CCT 16 Bit - 6 CH**

DMX Channel 7 - 12, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 2 CCT 16 Bit - 6 CH**

DMX Channel 13 - 18, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 2 CCT 16 Bit - 6 CH**

DMX Channel 19 - 24, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 3 HSI 8 Bit - 3 CH**

| DMX Channel | DMX Value                                       | Range  | Function   |
|-------------|---|--|--|
| 1           | 0-51<br>51-102<br>102-153<br>153-204<br>204-255 | 0-20%<br>20-40%<br>40-60%<br>60-80%<br>80-100% | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |



|   |       |        |  |
|---|-------|--------|--|
| 2 | 0-255 | 0-360  | <b>Hue</b><br>Closed - Open<br>Formular: HUE = DMX_value *1.4118       |
| 3 | 0-255 | 0-100% | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |

**LIGHT 2 - MODE 3 HSI 8 Bit - 3 CH**

DMX Channel 4 - 6, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 3 HSI 8 Bit - 3 CH**

DMX Channel 7 - 9, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 3 HSI 8 Bit - 3 CH**

DMX Channel 10 - 12, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 4 HSI 16 Bit - 6 CH**

| DMX Channel | DMX Value | Range  | Function                           |
|-------------|-----------|--------|------------------------------------|
| 1           | 0-65535   | 0-100% | <b>Dimmer</b><br>Closed - Open     |
| 2           |           |        |                                    |
| 3           | 0-65535   | 0-360  | <b>Hue</b><br>Closed - Open        |
| 4           |           |        |                                    |
| 5           | 0-65535   | 0-100% | <b>Saturation</b><br>Closed - Open |
| 6           |           |        |                                    |

**LIGHT 2 - MODE 4 HSI 16 Bit - 6 CH**

DMX Channel 7 - 12, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 4 HSI 16 Bit - 6 CH**

DMX Channel 13 - 18, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 4 HSI 16 Bit - 6 CH**

DMX Channel 19 - 24, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 5 XY 8 Bit - 3 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |
| 2           | 0-255     | X*255   | <b>X Coordinate</b><br>Formular: X = DMX_value /255                |
| 3           | 0-255     | Y*255   | <b>Y Coordinate</b><br>Formular: Y = DMX_value /255                |

**LIGHT 2 - MODE 5 XY 8 Bit - 3 CH**

DMX Channel 4 - 6, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 5 XY 8 Bit - 3 CH**

DMX Channel 7 - 9, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 5 XY 8 Bit - 3 CH**

DMX Channel 10 - 12, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 6 XY 16 Bit - 6 CH**

| DMX Channel | DMX Value | Range   | Function  |
|-------------|-----------|---------|---|
| 1           | 0-65535   | 0-100%  | <b>Dimmer</b><br>Closed - Open                        |
| 2           |           |         |   |
| 3           | 0-65535   | X*65535 | <b>X Coordinate</b><br>Formular: X = DMX_value /65535 |
| 4           |           |         |   |
| 5           | 0-65535   | Y*65535 | <b>Y Coordinate</b><br>Formular: Y = DMX_value /65535 |
| 6           |           |         |   |

**LIGHT 2 - MODE 6 XY 16 Bit - 6 CH**

DMX Channel 7 - 12, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 6 XY 16 Bit - 6 CH**

DMX Channel 13 - 18, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 6 XY 16 Bit - 6 CH**

DMX Channel 19 - 24, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 7 RGBWW 8 Bit - 6 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |
| 2           | 0-255     | 0-100%  | <b>Red</b><br>Formular: per = DMX_value *0.392                     |
| 3           | 0-255     | 0-100%  | <b>Green</b><br>Formular: per = DMX_value *0.392                   |
| 4           | 0-255     | 0-100%  | <b>Blue</b><br>Formular: per = DMX_value *0.392                    |
| 5           | 0-255     | 0-100%  | <b>Warm White</b><br>Formular: per = DMX_value *0.392              |
| 6           | 0-255     | 0-100%  | <b>Cool White</b><br>Formular: per = DMX_value *0.392              |

**LIGHT 2 - MODE 7 RGBWW 8 Bit - 6 CH**

DMX Channel 7 - 12, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 7 RGBWW 8 Bit - 6 CH**

DMX Channel 13 - 18, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 7 RGBWW 8 Bit - 6 CH**

DMX Channel 19 - 24, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 8 RGBWW 16 Bit - 12 CH**

| DMX Channel | DMX Value | Range  | Function   |
|-------------|-----------|--------|--|
| 1           | 0-65535   | 0-100% | <b>Dimmer</b><br>Closed - Open                         |
| 2           |           |        |  |
| 3           | 0-65535   | 0-100% | <b>Red</b><br>Formular: per = DMX_value /655.35        |
| 4           |           |        |  |
| 5           | 0-65535   | 0-100% | <b>Green</b><br>Formular: per = DMX_value /655.35      |
| 6           |           |        |  |
| 7           | 0-65535   | 0-100% | <b>Blue</b><br>Formular: per = DMX_value /655.35       |
| 8           |           |        |  |
| 9           | 0-65535   | 0-100% | <b>Warm White</b><br>Formular: per = DMX_value /655.35 |
| 10          |           |        |  |
| 11          | 0-65535   | 0-100% | <b>Cool White</b><br>Formular: per = DMX_value /655.35 |
| 12          |           |        |  |

**LIGHT 2 - MODE 8 RGBWW 16 Bit - 12 CH**

DMX Channel 13 - 24, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 8 RGBWW 16 Bit - 12 CH**

DMX Channel 25 - 36, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 8 RGBWW 16 Bit - 12 CH**

DMX Channel 37 - 48, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 9 GEL 8 Bit - 4 CH**

| DMX Channel | DMX Value | Range | Function |
|-------------|-----------|-------|----------|
|-------------|-----------|-------|----------|

|   |         |          |  |
|---|---------|----------|--|
| 1 | 0-51    | 0-20%    | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|   | 51-102  | 20-40%   |  |
|   | 102-153 | 40-60%   |  |
|   | 153-204 | 60-80%   |  |
|   | 204-255 | 80-100%  |  |
| 2 | 0-127   | 3200K    | <b>3200K</b>   |
|   | 128-255 | 5600K    | <b>5600K</b>   |
| 3 | 0-127   | Group I  | <b>Select Group I</b>  |
|   | 128-255 | Group II | <b>Select Group II</b>   |
| 4 | 0-121   | 1-122    | <b>GEL Filter Number in Group I</b>                                |
|   | 0-190   | 123-313  | <b>GEL Filter Number in Group II</b>                               |

**LIGHT 2 - MODE 9 GEL 8 Bit - 4 CH**

DMX Channel 5 - 8, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 9 GEL 8 Bit - 4 CH**

DMX Channel 9 - 12, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 9 GEL 8 Bit - 4 CH**

DMX Channel 13 - 16, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 10 CCT+RGBWW 8 Bit - 9 CH**

| DMX Channel | DMX Value | Range              | Function   |
|-------------|-----------|--------------------|--|
| 1           | 0-51      | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392   |
|             | 51-102    | 20-40%             |  |
|             | 102-153   | 40-60%             |  |
|             | 153-204   | 60-80%             |  |
|             | 204-255   | 80-100%            |  |
| 2           | 0-255     | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+DMX_value *28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
| 3           | 0-20      | 0%                 | <b>Green / Magenta</b>   |
|             | 21-30     | Full Magenta(100%) |  |
|             | 31-129    | Magenta(99%-1%)    |  |
|             | 130-140   | 0%                 |  |
|             | 141-240   | Green(1%-99%)      |  |
|             | 241-255   | Green(100%)        |  |
| 4           | 0-255     | 0-100%             | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW, smooth fade  |
| 5           | 0-255     | 0-100%             | <b>Red</b><br>Formular: per = DMX_value *0.392   |
| 6           | 0-255     | 0-100%             | <b>Green</b><br>Formular: per = DMX_value *0.392   |
| 7           | 0-255     | 0-100%             | <b>Blue</b><br>Formular: per = DMX_value *0.392  |
| 8           | 0-255     | 0-100%             | <b>Warm White</b><br>Formular: per = DMX_value *0.392  |
| 9           | 0-255     | 0-100%             | <b>Cool White</b><br>Formular: per = DMX_value *0.392  |

**LIGHT 2 - MODE 10 CCT+RGBWW 8 Bit - 9 CH**

DMX Channel 10 - 18, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 10 CCT+RGBWW 8 Bit - 9 CH**

DMX Channel 19 - 27, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 10 CCT+RGBWW 8 Bit - 9 CH**

DMX Channel 28 - 36, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 11 :CT+RGBWW 16 Bit - 18 CH**

| DMX Channel | DMX Value   | Range              | Function   |
|-------------|-------------|--------------------|--|
| 1           | 0-65535     | 0-100%             | <b>Dimmer</b><br>Closed - Open                           |
| 2           |             |                    |  |
| 3           | 0-65535     | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open                |
| 4           |             |                    |  |
| 5           | 0-5000      | 0%                 | <b>Green / Magenta</b>                                   |
|             | 5001-10000  | Full Magenta(100%) |  |
|             | 10001-29999 | Magenta(99%-1%)    |  |
| 6           | 30000-40000 | 0%                 |  |
|             | 40001-59999 | Green(1%-99%)      |  |
|             | 60000-65535 | Green(100%)        |  |
| 7           | 0-65535     | 0-100%             | <b>Crossfade</b><br>0 full CCT, 65535 full RGBWW, smooth |
| 8           |             |                    |  |
| 9           | 0-65535     | 0-100%             | <b>Red</b><br>Formular: per = DMX_value /655.35          |
| 10          |             |                    |  |
| 11          | 0-65535     | 0-100%             | <b>Green</b><br>Formular: per = DMX_value /655.35        |
| 12          |             |                    |  |
| 13          | 0-65535     | 0-100%             | <b>Blue</b><br>Formular: per = DMX_value /655.35         |
| 14          |             |                    |  |
| 15          | 0-65535     | 0-100%             | <b>Warm White</b><br>Formular: per = DMX_value /655.35   |
| 16          |             |                    |  |
| 17          | 0-65535     | 0-100%             | <b>Cool White</b><br>Formular: per = DMX_value /655.35   |
| 18          |             |                    |  |

**LIGHT 2 - MODE 11 :CT+RGBWW 16 Bit - 18 CH**

DMX Channel 19 - 36, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 11 :CT+RGBWW 16 Bit - 18 CH**

DMX Channel 37 - 54, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 11 :CT+RGBWW 16 Bit - 18 CH**

DMX Channel 55 - 72, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 12 CCT+HSI 8 Bit - 6 CH**

| DMX Channel | DMX Value   | Range              | Function   |
|-------------|-------------|--------------------|--|
| 1           | 0-51        | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392   |
|             | 51-102      | 20-40%             |  |
|             | 102-153     | 40-60%             |  |
|             | 153-204     | 60-80%             |  |
|             | 204-255     | 80-100%            |  |
| 2           | 0-255       | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+DMX_value *28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
| 3           | 0-20        | 0%                 | <b>Green / Magenta</b>   |
|             | 21-30       | Full Magenta(100%) |  |
|             | 31-129      | Magenta(99%-1%)    |  |
|             | 130-140     | 0%                 |  |
|             | 141-240     | Green(1%-99%)      |  |
| 241-255     | Green(100%) |                    |  |
| 4           | 0-255       | 0-100%             | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW, smooth fade  |

|   |       |        |  |
|---|-------|--------|--|
| 5 | 0-255 | 0-360  | <b>HUE</b><br>Formular: HUE = DMX_value *1.4118                        |
| 6 | 0-255 | 0-100% | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |

**LIGHT 2 - MODE 12 CCT+HSI 8 Bit - 6 CH**

DMX Channel 7 - 12, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 12 CCT+HSI 8 Bit - 6 CH**

DMX Channel 13 - 18, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 12 CCT+HSI 8 Bit - 6 CH**

DMX Channel 19 - 24, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 13 CCT+HSI 16 Bit - 12 CH**

| DMX Channel | DMX Value   | Range              | Function   |
|-------------|-------------|--------------------|--|
| 1           | 0-65535     | 0-100%             | <b>Dimmer</b><br>Closed - Open                           |
| 2           |             |                    |  |
| 3           | 0-65535     | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open                |
| 4           |             |                    |  |
| 5           | 0-5000      | 0%                 | <b>Green / Magenta</b>                                   |
|             | 5001-10000  | Full Magenta(100%) |  |
|             | 10001-29999 | Magenta(99%-1%)    |  |
| 6           | 30000-40000 | 0%                 |  |
|             | 40001-59999 | Green(1%-99%)      |  |
|             | 60000-65535 | Green(100%)        |  |
| 7           | 0-65535     | 0-100%             | <b>Crossfade</b><br>0 full CCT, 65535 full RGBWW, smooth |
| 8           |             |                    |  |
| 9           | 0-65535     | 0-360              | <b>HUE</b><br>Formular: HUE = DMX_value *0.005493        |
| 10          |             |                    |  |
| 11          | 0-65535     | 0-100%             | <b>Saturation</b><br>Closed - Open                       |
| 12          |             |                    |  |

**LIGHT 2 - MODE 13 CCT+HSI 16 Bit - 12 CH**

DMX Channel 13 - 24, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 13 CCT+HSI 16 Bit - 12 CH**

DMX Channel 25 - 36, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 13 CCT+HSI 16 Bit - 12 CH**

DMX Channel 37 - 48, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 14 CCT+XY 8 Bit - 6 CH**

| DMX Channel | DMX Value | Range              | Function   |
|-------------|-----------|--------------------|--|
| 1           | 0-51      | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392   |
|             | 51-102    | 20-40%             |  |
|             | 102-153   | 40-60%             |  |
|             | 153-204   | 60-80%             |  |
|             | 204-255   | 80-100%            |  |
| 2           | 0-255     | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+DMX_value *28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
| 3           | 0-20      | 0%                 | <b>Green / Magenta</b>   |
|             | 21-30     | Full Magenta(100%) |  |
|             | 31-129    | Magenta(99%-1%)    |  |
|             | 130-140   | 0%                 |  |

|   |         |               |   |
|---|---------|---------------|---|
|   | 141-240 | Green(1%-99%) |   |
|   | 241-255 | Green(100%)   |   |
| 4 | 0-255   | 0-100%        | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW, smooth fade |
| 5 | 0-255   | X*255         | <b>X Coordinate</b><br>Formular: X = DMX_value /255         |
| 6 | 0-255   | Y*255         | <b>Y Coordinate</b><br>Formular: Y = DMX_value /255         |

**LIGHT 2 - MODE 14 CCT+XY 8 Bit - 6 CH**

DMX Channel 7 - 12, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 14 CCT+XY 8 Bit - 6 CH**

DMX Channel 13 - 18, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 14 CCT+XY 8 Bit - 6 CH**

DMX Channel 19 - 24, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 15 CCT+XY 16 Bit - 12 CH**

| DMX Channel | DMX Value   | Range       | Function   |
|-------------|-------------|-------------|--|
| 1           | 0-65535     | 0-100%      | <b>Dimmer</b><br>Closed - Open                           |
| 2           |             |             |  |
| 3           | 0-65535     | 2700-10000K | <b>Color Temperature</b><br>Closed - Open                |
| 4           |             |             |  |
| 5           | 0-5000      | 0-100%      | <b>Green / Magenta</b>                                   |
|             | 5001-10000  | 0-100%      |  |
|             | 10001-29999 | 0-100%      |  |
| 6           | 30000-40000 | 0%          |  |
|             | 40001-59999 | 0-100%      |  |
|             | 60000-65535 | 0-100%      |  |
| 7           | 0-65535     | 0-100%      | <b>Crossfade</b><br>0 full CCT, 65535 full RGBWW, smooth |
| 8           |             |             |  |
| 9           | 0-65535     | X*65535     | <b>X Coordinate</b><br>Formular: X = DMX_value /65535    |
| 10          |             |             |  |
| 11          | 0-65535     | Y*65535     | <b>Y Coordinate</b><br>Formular: Y = DMX_value /65535    |
| 12          |             |             |  |

**LIGHT 2 - MODE 15 CCT+XY 16 Bit - 12 CH**

DMX Channel 13 - 24, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 15 CCT+XY 16 Bit - 12 CH**

DMX Channel 25 - 36, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 15 CCT+XY 16 Bit - 12 CH**

DMX Channel 37 - 48, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 16 CCT+GEL 8 Bit - 7 CH**

| DMX Channel | DMX Value | Range       | Function   |
|-------------|-----------|-------------|--|
| 1           | 0-51      | 0-20%       | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392   |
|             | 51-102    | 20-40%      |  |
|             | 102-153   | 40-60%      |  |
|             | 153-204   | 60-80%      |  |
|             | 204-255   | 80-100%     |  |
| 2           | 0-255     | 2700-10000K | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+DMX_value *28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |

|   |         |                    |   |
|---|---------|--------------------|---|
| 3 | 0-20    | 0%                 | <b>Green / Magenta</b>                                      |
|   | 21-30   | Full Magenta(100%) |   |
|   | 31-129  | Magenta(99%-1%)    |   |
|   | 130-140 | 0%                 |   |
|   | 141-240 | Green(1%-99%)      |   |
|   | 241-255 | Green(100%)        |   |
| 4 | 0-255   | 0-100%             | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW, smooth fade |
| 5 | 0-127   | 3200K              | <b>3200K</b>  |
|   | 128-255 | 5600K              | <b>5600K</b>  |
| 6 | 0-127   | Group I            | <b>Select Group I</b>                                       |
|   | 128-255 | Group II           | <b>Select Group II</b>                                      |
| 7 | 0-121   | 1-122              | <b>GEL Filter Number in Group I</b>                         |
|   | 0-190   | 123-313            | <b>GEL Filter Number in Group II</b>                        |

**LIGHT 2 - MODE 16 CCT+GEL 8 Bit - 7 CH**

DMX Channel 8 - 14, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 16 CCT+GEL 8 Bit - 7 CH**

DMX Channel 15 - 21, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 16 CCT+GEL 8 Bit - 7 CH**

DMX Channel 22 - 28, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 17 CCT+GEL 16 Bit - 11 CH**

| DMX Channel | DMX Value   | Range              | Function   |
|-------------|-------------|--------------------|--|
| 1           | 0-65535     | 0-100%             | <b>Dimmer</b><br>Closed - Open                           |
| 2           |             |                    |  |
| 3           | 0-65535     | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open                |
| 4           |             |                    |  |
| 5           | 0-5000      | 0%                 | <b>Green / Magenta</b>                                   |
|             | 5001-10000  | Full Magenta(100%) |  |
|             | 10001-29999 | Magenta(99%-1%)    |  |
| 6           | 30000-40000 | 0%                 |  |
|             | 40001-59999 | Green(1%-99%)      |  |
|             | 60000-65535 | Green(100%)        |  |
| 7           | 0-65535     | 0-100%             | <b>Crossfade</b><br>0 full CCT, 65535 full RGBWW, smooth |
| 8           |             |                    |  |
| 9           | 0-127       | 3200K              | <b>3200K</b>   |
|             | 128-255     | 5600K              | <b>5600K</b>   |
| 10          | 0-127       | Group I            | <b>Select Group I</b>                                    |
|             | 128-255     | Group II           | <b>Select Group II</b>                                   |
| 11          | 0-121       | 1-122              | <b>GEL Filter Number in Group I</b>                      |
|             | 0-190       | 123-313            | <b>GEL Filter Number in Group II</b>                     |

**LIGHT 2 - MODE 17 CCT+GEL 16 Bit - 11 CH**

DMX Channel 12 - 22, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 17 CCT+GEL 16 Bit - 11 CH**

DMX Channel 23 - 33, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 17 CCT+GEL 16 Bit - 11 CH**

DMX Channel 34 - 44, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 18 RGBWW+HSI 8 Bit - 9 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |
| 2           | 0-255     | 0-100%  | <b>Red</b><br>Formular: per = DMX_value *0.392                     |

|   |       |        |  |
|---|-------|--------|--|
| 3 | 0-255 | 0-100% | <b>Green</b><br>Formular: per = DMX_value *0.392                       |
| 4 | 0-255 | 0-100% | <b>Blue</b><br>Formular: per = DMX_value *0.392                        |
| 5 | 0-255 | 0-100% | <b>Warm White</b><br>Formular: per = DMX_value *0.392                  |
| 6 | 0-255 | 0-100% | <b>Cool White</b><br>Formular: per = DMX_value *0.392                  |
| 7 | 0-255 | 0-100% | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW, smooth fade            |
| 8 | 0-255 | 0-360  | <b>HUE</b><br>Formular: HUE = DMX_value *1.4118                        |
| 9 | 0-255 | 0-100% | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |

**LIGHT 2 - MODE 18 RGBWW+HSI 8 Bit - 9 CH**

DMX Channel 10 - 18, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 18 RGBWW+HSI 8 Bit - 9 CH**

DMX Channel 19 - 27, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 18 RGBWW+HSI 8 Bit - 9 CH**

DMX Channel 28 - 36, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 19 RGBWW+HSI 16 Bit - 18 CH**

| DMX Channel | DMX Value | Range  | Function                             |
|-------------|-----------|--------|--------------------------------------|
| 1           | 0-65535   | 0-100% | <b>Dimmer</b>                        |
| 2           |           |        | Closed - Open                        |
| 3           | 0-65535   | 0-100% | <b>Red</b>                           |
| 4           |           |        | Formular: per = DMX_value /655.35    |
| 5           | 0-65535   | 0-100% | <b>Green</b>                         |
| 6           |           |        | Formular: per = DMX_value /655.35    |
| 7           | 0-65535   | 0-100% | <b>Blue</b>                          |
| 8           |           |        | Formular: per = DMX_value /655.35    |
| 9           | 0-65535   | 0-100% | <b>Warm White</b>                    |
| 10          |           |        | Formular: per = DMX_value /655.35    |
| 11          | 0-65535   | 0-100% | <b>Cool White</b>                    |
| 12          |           |        | Formular: per = DMX_value /655.35    |
| 13          | 0-65535   | 0-100% | <b>Crossfade</b>                     |
| 14          |           |        | 0 full CCT, 65535 full RGBWW, smooth |
| 15          | 0-65535   | 0-360  | <b>Hue</b>                           |
| 16          |           |        | Formular: per = DMX_value *0.005493  |
| 17          | 0-65535   | 0-100% | <b>Saturation</b>                    |
| 18          |           |        | Closed - Open                        |

**LIGHT 2 - MODE 19 RGBWW+HSI 16 Bit - 18 CH**

DMX Channel 19 - 36, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 19 RGBWW+HSI 16 Bit - 18 CH**

DMX Channel 37 - 54, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 19 RGBWW+HSI 16 Bit - 18 CH**

DMX Channel 55 - 72, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 20 RGBWW+XY 8 Bit - 9 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |



|   |       |        |   |
|---|-------|--------|---|
| 2 | 0-255 | 0-100% | <b>Red</b><br>Formular: per = DMX_value *0.392              |
| 3 | 0-255 | 0-100% | <b>Green</b><br>Formular: per = DMX_value *0.392            |
| 4 | 0-255 | 0-100% | <b>Blue</b><br>Formular: per = DMX_value *0.392             |
| 5 | 0-255 | 0-100% | <b>Warm White</b><br>Formular: per = DMX_value *0.392       |
| 6 | 0-255 | 0-100% | <b>Cool White</b><br>Formular: per = DMX_value *0.392       |
| 7 | 0-255 | 0-100% | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW, smooth fade |
| 8 | 0-255 | X*255  | <b>X Coordinate</b><br>Formular: X = DMX_value /255         |
| 9 | 0-255 | Y*255  | <b>Y Coordinate</b><br>Formular: Y = DMX_value /255         |

**LIGHT 2 - MODE 20 RGBWW+XY 8 Bit - 9 CH**

DMX Channel 10 - 18, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 20 RGBWW+XY 8 Bit - 9 CH**

DMX Channel 19 - 27, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 20 RGBWW+XY 8 Bit - 9 CH**

DMX Channel 28 - 36, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 21 RGBWW+XY 16 Bit - 18 CH**

| DMX Channel | DMX Value | Range   | Function                             |
|-------------|-----------|---------|--------------------------------------|
| 1           | 0-65535   | 0-100%  | <b>Dimmer</b>                        |
| 2           |           |         | Closed - Open                        |
| 3           | 0-65535   | 0-100%  | <b>Red</b>                           |
| 4           |           |         | Formular: per = DMX_value /655.35    |
| 5           | 0-65535   | 0-100%  | <b>Green</b>                         |
| 6           |           |         | Formular: per = DMX_value /655.35    |
| 7           | 0-65535   | 0-100%  | <b>Blue</b>                          |
| 8           |           |         | Formular: per = DMX_value /655.35    |
| 9           | 0-65535   | 0-100%  | <b>Warm</b>                          |
| 10          |           |         | Formular: per = DMX_value /655.35    |
| 11          | 0-65535   | 0-100%  | <b>Cool White</b>                    |
| 12          |           |         | Formular: per = DMX_value /655.35    |
| 13          | 0-65535   | 0-100%  | <b>Crossfade</b>                     |
| 14          |           |         | 0 full CCT, 65535 full RGBWW, smooth |
| 15          | 0-65535   | X*65535 | <b>X Coordinate</b>                  |
| 16          |           |         | Formular: X = DMX_value /65535       |
| 17          | 0-65535   | Y*65535 | <b>Y Coordinate</b>                  |
| 18          |           |         | Formular: Y = DMX_value /655.35      |

**LIGHT 2 - MODE 21 RGBWW+XY 16 Bit - 18 CH**

DMX Channel 19 - 36, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 21 RGBWW+XY 16 Bit - 18 CH**

DMX Channel 37 - 54, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 21 RGBWW+XY 16 Bit - 18 CH**

DMX Channel 55 - 72, the value and function is same as LIGHT 1

**LIGHT 2 - MODE 22 HSI+XY 8 Bit - 6 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |

|   |       |        |  |
|---|-------|--------|--|
| 2 | 0-255 | 0-360  | <b>Hue</b><br>Closed - Open<br>Formular: HUE = DMX_value *1.4118       |
| 3 | 0-255 | 0-100% | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
| 4 | 0-255 | 0-100% | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW, smooth fade            |
| 5 | 0-255 | X*255  | <b>X Coordinate</b><br>Formular: X = DMX_value /255                    |
| 6 | 0-255 | Y*255  | <b>Y Coordinate</b><br>Formular: Y = DMX_value /255                    |

**LIGHT 2 - MODE 22 HSI+XY 8 Bit - 6 CH**

DMX Channel 7 - 12, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 22 HSI+XY 8 Bit - 6 CH**

DMX Channel 13 - 18, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 22 HSI+XY 8 Bit - 6 CH**

DMX Channel 19 - 24, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 23 HSI+XY 16 Bit - 12 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-65535   | 0-100%  | <b>Dimmer</b><br>Closed - Open                           |
| 2           |           |         |  |
| 3           | 0-65535   | 0-360   | <b>Hue</b><br>Closed - Open                              |
| 4           |           |         |  |
| 5           | 0-65535   | 0-100%  | <b>Saturation</b><br>Closed - Open                       |
| 6           |           |         |  |
| 7           | 0-65535   | 0-100%  | <b>Crossfade</b><br>0 full CCT, 65535 full RGBWW, smooth |
| 8           |           |         |  |
| 9           | 0-65535   | X*65535 | <b>X Coordinate</b><br>Formular: X = DMX_value /65535    |
| 10          |           |         |  |
| 11          | 0-65535   | Y*65535 | <b>Y Coordinate</b><br>Formular: Y = DMX_value /65535    |
| 12          |           |         |  |

**LIGHT 2 - MODE 23 HSI+XY 16 Bit - 12 CH**

DMX Channel 13 - 24, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 23 HSI+XY 16 Bit - 12 CH**

DMX Channel 25 - 36, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 23 HSI+XY 16 Bit - 12 CH**

DMX Channel 37 - 48, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 24 EFFECT - CCT Chase 7 CH**

| DMX Channel | DMX Value | Range              | Function   |
|-------------|-----------|--------------------|--|
| 1           | 0-51      | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392         |
|             | 51-102    | 20-40%             |  |
|             | 102-153   | 40-60%             |  |
|             | 153-204   | 60-80%             |  |
|             | 204-255   | 80-100%            |  |
| 2           | 000-014   |                    | <b>CCT Chase</b>   |
| 3           | 0-255     | 2700-10000K        | <b>CCT Start</b><br>Formular: Color Temperature = 2700 + DMX_value *28.627 |
| 4           | 0-255     | 2700-10000K        | <b>CCT Stop</b><br>Formular: Color Temperature = 2700 + DMX_value *28.627  |
| 5           | 0-20      | 0%                 | <b>Green / Magenta</b>   |
|             | 21-30     | Full Magenta(100%) |  |
|             | 31-129    | Magenta(99%-1%)    |  |

|   |         |                                  |                            |
|---|---------|----------------------------------|----------------------------|
|   | 130-140 | 0%                               | Green / magenta            |
|   | 141-240 | Green(1%-99%)                    |                            |
|   | 241-255 | Green(100%)                      |                            |
| 6 | 10-19   | Loop time increase<br>60 seconds | Loop time (max 600 second) |
|   | 20-29   | 120 seconds                      |                            |
|   | 30-39   | 180 seconds                      |                            |
|   | 40-49   | 240 seconds                      |                            |
|   | 50-59   | 300 seconds                      |                            |
|   | 60-69   | 360 seconds                      |                            |
|   | 70-79   | 420 seconds                      |                            |
|   | 80-89   | 480 seconds                      |                            |
|   | 90-99   | 540 seconds                      |                            |
| 7 | 0-50    | 0-50 seconds                     | Second/Loop                |
|   | 50-100  | 50-100 seconds                   |                            |
|   | 100-150 | 100-150 seconds                  |                            |
|   | 150-200 | 150-200 seconds                  |                            |
|   | 200-255 | 200-255 seconds                  |                            |

**LIGHT 2 - MODE 24 EFFECT - CCT Chase**

DMX Channel 8 - 14, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 24 EFFECT - CCT Chase**

DMX Channel 15 - 21, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 24 EFFECT - CCT Chase**

DMX Channel 22 - 28, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 24 EFFECT - Color Chase 7 CH**

| DMX Channel | DMX Value | Range       | Function   |                                  |                            |
|-------------|-----------|-------------|--|----------------------------------|----------------------------|
| 1           | 0-255     | 0-100%      | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392     |                                  |                            |
| 2           | 015-026   |             | <b>Color Chase</b>   |                                  |                            |
| 3           | 0-42      | 0°-60°      | <b>HUE Start</b><br>Formular: HUE = DMX_value *1.4118                  |                                  |                            |
|             | 42-85     | 60°-120°    |  |                                  |                            |
|             | 85-127    | 120°-180°   |  |                                  |                            |
|             | 127-170   | 180°-240°   |  |                                  |                            |
|             | 170-212   | 240°-300°   |  |                                  |                            |
| 4           | 212-255   | 300°-360°   | <b>HUE Stop</b><br>Formular: HUE = DMX_value *1.4118                   |                                  |                            |
|             | 0-42      | 0°-60°      |  |                                  |                            |
|             | 42-85     | 60°-120°    |  |                                  |                            |
|             | 85-127    | 120°-180°   |  |                                  |                            |
|             | 127-170   | 180°-240°   |  |                                  |                            |
| 5           | 170-212   | 240°-300°   | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |                                  |                            |
|             | 212-255   | 300°-360°   |  |                                  |                            |
|             | 0-255     | 0%          |  |                                  |                            |
|             | 6         | 10-19       |  | Loop time increase<br>60 seconds | Loop time (max 600 second) |
|             |           | 20-29       |  | 120 seconds                      |                            |
| 30-39       |           | 180 seconds |  |                                  |                            |
| 40-49       |           | 240 seconds |  |                                  |                            |
| 50-59       |           | 300 seconds |  |                                  |                            |
| 60-69       |           | 360 seconds |  |                                  |                            |
| 70-79       |           | 420 seconds |  |                                  |                            |
| 80-89       |           | 480 seconds |  |                                  |                            |
| 90-99       |           | 540 seconds |  |                                  |                            |

|   |         |                 |                    |
|---|---------|-----------------|--------------------|
| 7 | 0-50    | 0-50 seconds    | <b>Second/Loop</b> |
|   | 50-100  | 50-100 seconds  |                    |
|   | 100-150 | 100-150 seconds |                    |
|   | 150-200 | 150-200 seconds |                    |
|   | 200-255 | 200-255 seconds |                    |

**LIGHT 2 - MODE 24 EFFECT - Color Chase**

DMX Channel 8 - 14, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 24 EFFECT - Color Chase**

DMX Channel 15 - 21, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 24 EFFECT - Color Chase**

DMX Channel 22 - 28, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 24 EFFECT - Fireworks 7 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392     |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |
| 2           | 027-039   |         | <b>Fireworks</b>   |
| 3           | 0-255     | 0-360   | <b>HUE Start</b><br>Formular: HUE = DMX_value *1.4118                  |
| 4           | 0-255     | 0-360   | <b>HUE Stop</b><br>Formular: HUE = DMX_value *1.4118                   |
| 5           | 0-255     | 0-100%  | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
| 6           | 0-255     | 0-60    | <b>Explosion/min</b><br>Formular: speed = dmx_value/4.25               |
| 7           | 0-255     | 5-95    | <b>Duration</b><br>Formular: duty = 5+DMX_value *0.353                 |

**LIGHT 2 - MODE 24 EFFECT - Fireworks**

DMX Channel 8 - 14, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 24 EFFECT - Fireworks**

DMX Channel 15 - 21, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 24 EFFECT - Fireworks**

DMX Channel 22 - 28, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 24 EFFECT - Fire 4 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |
| 2           | 040-052   |         | <b>Fire</b>  |
| 3           | 0-255     | 0-100   | <b>Wind Speed</b><br>Formular: per = DMX_value *0.392              |
| 4           | 0-49      | 0-49    | <b>Fire Type:</b> Candle   |
|             | 50-99     | 50-99   | <b>Fire Type:</b> Campfire   |
|             | 100-149   | 100-149 | <b>Fire Type:</b> bonfire  |

**LIGHT 2 - MODE 24 EFFECT - Fire**

DMX Channel 5 - 8, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 24 EFFECT - Fire**

DMX Channel 9 - 12, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 24 EFFECT - Fire**

DMX Channel 13 - 16, the value and function is same as LIGHT 1

| LIGHT 1 - MODE 24 |           | EFFECT - Explosion |  | 5 CH |  |
|-------------------|-----------|--------------------|--|------|--|
| DMX Channel       | DMX Value | Range              | Function   |      |  |
| 1                 | 0-51      | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |      |  |
|                   | 51-102    | 20-40%             |  |      |  |
|                   | 102-153   | 40-60%             |  |      |  |
|                   | 153-204   | 60-80%             |  |      |  |
|                   | 204-255   | 80-100%            |  |      |  |
| 2                 | 053-065   |                    | <b>Explosion</b>   |      |  |
| 3                 | 0-255     | 0-60               | <b>Explosion/min</b><br>Formular: speed = DMX_value /4.25          |      |  |
| 4                 | 0-255     | 5-95               | <b>Duration</b><br>Formular: duty = 5 + DMX_value *0.353           |      |  |
| 5                 | 0-49      | 0-49               | Fire Type: Warm  |      |  |
|                   | 50-99     | 50-99              | <b>Fire Type:</b> Cool   |      |  |
|                   | 100-149   | 100-149            | <b>Fire Type:</b> Colors   |      |  |

**LIGHT 2 - MODE 24 EFFECT - Explosion**

DMX Channel 6 - 10, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 24 EFFECT - Explosion**

DMX Channel 11 - 15, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 24 EFFECT - Explosion**

DMX Channel 15 - 20, the value and function is same as LIGHT 1

| LIGHT 1 - MODE 24 |             | EFFECT - Lightning |  | 5 CH |  |
|-------------------|-------------|--------------------|--|------|--|
| DMX Channel       | DMX Value   | Range              | Function   |      |  |
| 1                 | 0-51        | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392   |      |  |
|                   | 51-102      | 20-40%             |  |      |  |
|                   | 102-153     | 40-60%             |  |      |  |
|                   | 153-204     | 60-80%             |  |      |  |
|                   | 204-255     | 80-100%            |  |      |  |
| 2                 | 50--59      |                    | <b>Lightning</b>   |      |  |
| 3                 | 0-255       | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+DMX_value *28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |      |  |
| 4                 | 0-20        | 0%                 | <b>Green / Magenta</b>   |      |  |
|                   | 21-30       | Full Magenta(100%) |  |      |  |
|                   | 31-129      | Magenta(99%-1%)    |  |      |  |
|                   | 130-140     | 0%                 |  |      |  |
|                   | 141-240     | Green(1%-99%)      |  |      |  |
| 241-255           | Green(100%) |                    |  |      |  |
| 5                 | 0-255       | 1-60               | <b>Intervals (Second)</b><br>Formular: time = DMX_value /4.25  |      |  |

**LIGHT 2 - MODE 2 EFFECT - Lightning**

DMX Channel 6 - 10, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 2 EFFECT - Lightning**

DMX Channel 11 - 15, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 2 EFFECT - Lightning**

DMX Channel 15 - 20, the value and function is same as LIGHT 1

| LIGHT 1 - MODE 24 |           | EFFECT - Paparazzi |   | 6 CH |  |
|-------------------|-----------|--------------------|---|------|--|
| DMX Channel       | DMX Value | Range              | Function  |      |  |
| 1                 | 0-51      | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392  |      |  |
|                   | 51-102    | 20-40%             |   |      |  |
|                   | 102-153   | 40-60%             |   |      |  |
|                   | 153-204   | 60-80%             |   |      |  |
|                   | 204-255   | 80-100%            |   |      |  |
| 2                 | 078-090   |                    | <b>Paparazzi</b>  |      |  |
| 3                 | 0-255     | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+<br>DMX_value*28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |      |  |
| 4                 | 0-20      | 0%                 | <b>Green / Magenta</b>  |      |  |
|                   | 21-30     | Full Magenta(100%) |   |      |  |
|                   | 31-129    | Magenta(99%-1%)    |   |      |  |
|                   | 130-140   | 0%                 |   |      |  |
|                   | 141-240   | Green(1%-99%)      |   |      |  |
|                   | 241-255   | Green(100%)        |   |      |  |
| 5                 | 0-255     | 0-25Hz             | <b>Frequency</b><br>Formular: frequency = DMX_value /10.2   |      |  |
| 6                 | 0-49      | 0-49               | <b>Bulb Type:</b> Slow  |      |  |
|                   | 50-99     | 50-99              | <b>Bulb Type:</b> Medium  |      |  |
|                   | 100-149   | 100-149            | <b>Bulb Type:</b> Fast  |      |  |
|                   | 150-199   | 150-199            | Bulb Type: MODE rn  |      |  |

**LIGHT 2 - MODE 2 EFFECT - Paparazzi**  
 DMX Channel 7 - 12, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 2 EFFECT - Paparazzi**  
 DMX Channel 13 - 18, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 2 EFFECT - Paparazzi**  
 DMX Channel 19 - 24, the value and function is same as LIGHT 1

| LIGHT 1 - MODE 24 |           | EFFECT - Pulse |  | 5 CH |  |
|-------------------|-----------|----------------|--|------|--|
| DMX Channel       | DMX Value | Range          | Function   |      |  |
| 1                 | 0-51      | 0-20%          | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392     |      |  |
|                   | 51-102    | 20-40%         |  |      |  |
|                   | 102-153   | 40-60%         |  |      |  |
|                   | 153-204   | 60-80%         |  |      |  |
|                   | 204-255   | 80-100%        |  |      |  |
| 2                 | 091-103   |                | <b>Pulse</b>   |      |  |
| 3                 | 0-255     | 0-360          | <b>HUE</b><br>Formular: HUE = DMX_value *1.4118                        |      |  |
| 4                 | 0-255     | 0-100%         | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |      |  |
| 5                 | 0-255     | 1-200          | <b>Pulses/min</b><br>Formular: frequency = 1+DMX_value / 1.281         |      |  |

**LIGHT 2 - MODE 24 EFFECT - Pulse**  
 DMX Channel 6 - 10, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 24 EFFECT - Pulse**  
 DMX Channel 11 - 15, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 24 EFFECT - Pulse**

DMX Channel 15 - 20, the value and function is same as LIGHT 1

| LIGHT 1 - MODE 24 |           | EFFECT - Police |  | 6 CH |  |
|-------------------|-----------|-----------------|--|------|--|
| DMX Channel       | DMX Value | Range           | Function   |      |  |
| 1                 | 0-51      | 0-20%           | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |      |  |
|                   | 51-102    | 20-40%          |  |      |  |
|                   | 102-153   | 40-60%          |  |      |  |
|                   | 153-204   | 60-80%          |  |      |  |
|                   | 204-255   | 80-100%         |  |      |  |
| 2                 | 104-116   |                 | <b>Police</b>  |      |  |
| 3                 | 0-9       | 0-9             | <b>Colors:</b> Red, Blue & White                                   |      |  |
|                   | 10--19    | 10--19          | <b>Colors:</b> Red & Blue  |      |  |
|                   | 20--29    | 20--29          | <b>Colors:</b> Red & White   |      |  |
|                   | 30--39    | 30--39          | <b>Colors:</b> Blue & White  |      |  |
|                   | 40--49    | 40--49          | <b>Colors:</b> Blue  |      |  |
|                   | 50--59    | 50--59          | <b>Colors:</b> Red   |      |  |
|                   | 60--69    | 60--69          | <b>Colors:</b> Amber   |      |  |
| 4                 | 0-49      | 0-49            | <b>Flash/cycle:</b> 1  |      |  |
|                   | 50-99     | 50-99           | <b>Flash/cycle:</b> 2  |      |  |
|                   | 100-149   | 100-149         | <b>Flash/cycle:</b> 3  |      |  |
|                   | 150-199   | 150-199         | <b>Flash/cycle:</b> 4  |      |  |
| 5                 | 0-255     | 0-100           | <b>Speed</b><br>Formular: per = DMX_value *0.392                   |      |  |
| 6                 | 0-255     | 5-95            | <b>Duration</b><br>Formular: duty = 5+ DMX_value *0.353            |      |  |

**LIGHT 2 - MODE 24 EFFECT - Police**

DMX Channel 7 - 12, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 24 EFFECT - Police**

DMX Channel 13 - 18, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 24 EFFECT - Police**

DMX Channel 19 - 24, the value and function is same as LIGHT 1

| LIGHT 1 - MODE 24 |           | EFFECT - Strobe Color |  | 6 CH |  |
|-------------------|-----------|-----------------------|--|------|--|
| DMX Channel       | DMX Value | Range                 | Function   |      |  |
| 1                 | 0-51      | 0-20%                 | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392     |      |  |
|                   | 51-102    | 20-40%                |  |      |  |
|                   | 102-153   | 40-60%                |  |      |  |
|                   | 153-204   | 60-80%                |  |      |  |
|                   | 204-255   | 80-100%               |  |      |  |
| 2                 | 117-128   |                       | <b>Strobe Color</b>  |      |  |
| 3                 | 0-255     | 0-360                 | <b>HUE</b><br>Formular: HUE = DMX_value *1.4118                        |      |  |
| 4                 | 0-255     | 0-100                 | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |      |  |
| 5                 | 0-255     | 0-25Hz                | <b>Frequency</b><br>Formular: Frequency = DMX_value /10.2              |      |  |
| 6                 | 0-255     | 5-95                  | <b>Duration</b><br>Formular: duty = 5+ DMX_value *0.353                |      |  |

**LIGHT 2 - MODE 24 EFFECT - Strobe Color**

DMX Channel 7 - 12, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 24 EFFECT - Strobe Color**

DMX Channel 13 - 18, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 24 EFFECT - Strobe Color**

DMX Channel 19 - 24, the value and function is same as LIGHT 1

| <b>LIGHT 1 - MODE 24 EFFECT - Strobe CCT 6 CH</b> |           |                    |  |
|---|-----------|--------------------|--|
| DMX Channel                                       | DMX Value | Range              | Function   |
| 1   | 0-51      | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392   |
|   | 51-102    | 20-40%             |  |
|   | 102-153   | 40-60%             |  |
|   | 153-204   | 60-80%             |  |
|   | 204-255   | 80-100%            |  |
| 2   | 129-141   |                    | <b>Strobe CCT</b>  |
| 3   | 0-255     | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+DMX_value *28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
| 4   | 0-20      | 0%                 | <b>Green / Magenta</b>   |
|   | 21-30     | Full Magenta(100%) |  |
|   | 31-129    | Magenta(99%-1%)    |  |
|   | 130-140   | 0%                 |  |
|   | 141-240   | Green(1%-99%)      |  |
|   | 241-255   | Green(100%)        |  |
| 5   | 0-255     | 0-25Hz             | <b>Frequency</b><br>Formular: frequency = DMX_value /10.2  |
| 6   | 0-255     | 5-95               | <b>Duration</b><br>Formular: duty = 5+ DMX_value *0.353  |

**LIGHT 2 - MODE 24 EFFECT - Strobe CCT**

DMX Channel 7 - 12, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 24 EFFECT - Strobe CCT**

DMX Channel 13 - 18, the value and function is same as LIGHT 1

**LIGHT 4 - MODE 24 EFFECT - Strobe CCT**

DMX Channel 19 - 24, the value and function is same as LIGHT 1

| <b>LIGHT 1 - MODE 25 Macro - 2 CH</b> |           |         |  |
|---------------------------------------|-----------|---------|--|
| DMX Channel                           | DMX Value | Range   | Function   |
| 1                                     | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|                                       | 51-102    | 20-40%  |  |
|                                       | 102-153   | 40-60%  |  |
|                                       | 153-204   | 60-80%  |  |
|                                       | 204-255   | 80-100% |  |
| 2                                     | 0-46      | 0-46    | Pls check: Appendix I Macro  |

**LIGHT 2 - MODE 25 Macro - 2 CH**

DMX Channel 3 - 4, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 25 Macro - 2 CH**

DMX Channel 5 - 6, the value and function is same as LIGHT 1

**INDIVIDUAL 4 - MODE 2: Macro - 2 CH**

DMX Channel 7 - 8, the value and function is same as INDIVIDUAL 1



**DMX Protocol Map**

Suit for Luxed-P3, Luxed Pro-P3

Appendix I

Macro

Appendix II

GEL Filter



**WALL MODE**

**MODE 1 CCT 8 Bit - 3 CH**

| DMX Channel | DMX Value | Range              | Function   |
|-------------|-----------|--------------------|--|
| 1           | 0-51      | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392   |
|             | 51-102    | 20-40%             |  |
|             | 102-153   | 40-60%             |  |
|             | 153-204   | 60-80%             |  |
|             | 204-255   | 80-100%            |  |
| 2           | 0-255     | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br><br>Formular:<br>Color Temperature = 2700+DMX_value *28.627<br><br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
|             |           |                    |  |
| 3           | 0-20      | 0                  | <b>Green / Magenta</b>   |
|             | 21-30     | Full Magenta(100%) |  |
|             | 30-130    | Magenta (99%-1%)   |  |
|             | 130-140   | 0%                 |  |
|             | 141-240   | Green(1%-99%)      |  |
|             | 241-255   | Green(100%)        |  |

**MODE 2 CCT 16 Bit - 6 CH**

| DMX Channel | DMX Value   | Range              | Function                                  |
|-------------|-------------|--------------------|---|
| 1           | 0-65535     | 0-100%             | <b>Dimmer</b><br>Closed - Open            |
| 2           |             |                    |   |
| 3           |             | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open |
| 4           |             |                    |   |
| 5           | 0-5000      | 0%                 | <b>Green / Magenta</b>                    |
|             | 5001-10000  | Full Magenta(100%) |   |
|             | 10001-29999 | Magenta (99%-1%)   |   |
| 6           | 30000-40000 | 0%                 |   |
|             | 40001-59999 | Green(1%-99%)      |   |
|             | 60000-65535 | Green(100%)        |   |

**MODE 3 HSI 8 Bit - 3 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392     |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |
| 2           | 0-255     | 0-360   | <b>Hue</b><br>Closed - Open<br>Formular: HUE = DMX_value *1.4118       |
| 3           | 0-255     | 0-100%  | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |

**MODE 4 HSI 16 Bit - 6 CH**

| DMX Channel | DMX Value | Range  | Function                       |
|-------------|-----------|--------|--------------------------------|
| 1           | 0-65535   | 0-100% | <b>Dimmer</b><br>Closed - Open |
| 2           |           |        |                                |

|   |         |        |                   |
|---|---------|--------|-------------------|
| 3 | 0-65535 | 0-360  | <b>Hue</b>        |
| 4 |         |        | Closed - Open     |
| 5 | 0-65535 | 0-100% | <b>Saturation</b> |
| 6 |         |        | Closed - Open     |

| <b>MODE 5 XY 8 Bit - 3 CH</b> |  |  |  |
|-------------------------------|--|--|--|
|-------------------------------|--|--|--|

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |
| 2           | 0-255     | X*255   | <b>X Coordinate</b><br>Formular: X = DMX_value /255                |
| 3           | 0-255     | Y*255   | <b>Y Coordinate</b><br>Formular: Y = DMX_value /255                |

| <b>MODE 6 XY 16 Bit - 6 CH</b> |  |  |  |
|--------------------------------|--|--|--|
|--------------------------------|--|--|--|

| DMX Channel | DMX Value | Range   | Function  |
|-------------|-----------|---------|---|
| 1           | 0-65535   | 0-100%  | <b>Dimmer</b><br>Closed - Open                        |
| 2           |           |         |   |
| 3           |           |         |   |
| 4           | 0-65535   | X*65535 | <b>X Coordinate</b><br>Formular: X = DMX_value /65535 |
| 5           | 0-65535   | Y*65535 | <b>Y Coordinate</b><br>Formular: Y = DMX_value /65535 |
| 6           |           |         |   |

| <b>MODE 7 RGBWW 8 Bit - 6 CH</b> |  |  |  |
|----------------------------------|--|--|--|
|----------------------------------|--|--|--|

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |
| 2           | 0-255     | 0-100%  | <b>Red</b><br>Formular: per = DMX_value *0.392                     |
| 3           | 0-255     | 0-100%  | <b>Green</b><br>Formular: per = DMX_value *0.392                   |
| 4           | 0-255     | 0-100%  | <b>Blue</b><br>Formular: per = DMX_value *0.392                    |
| 5           | 0-255     | 0-100%  | <b>Warm White</b><br>Formular: per = DMX_value *0.392              |
| 6           | 0-255     | 0-100%  | <b>Cool White</b><br>Formular: per = DMX_value *0.392              |

| <b>MODE 8 RGBWW 16 Bit - 12 CH</b> |  |  |  |
|------------------------------------|--|--|--|
|------------------------------------|--|--|--|

| DMX Channel | DMX Value | Range  | Function   |
|-------------|-----------|--------|--|
| 1           | 0-65535   | 0-100% | <b>Dimmer</b><br>Closed - Open                         |
| 2           |           |        |  |
| 3           | 0-65535   | 0-100% | <b>Red</b><br>Formular: per = DMX_value /655.35        |
| 4           |           |        |  |
| 5           | 0-65535   | 0-100% | <b>Green</b><br>Formular: per = DMX_value /655.35      |
| 6           |           |        |  |
| 7           | 0-65535   | 0-100% | <b>Blue</b><br>Formular: per = DMX_value /655.35       |
| 8           |           |        |  |
| 9           | 0-65535   | 0-100% | <b>Warm White</b><br>Formular: per = DMX_value /655.35 |
| 10          |           |        |  |
| 11          | 0-65535   | 0-100% | <b>Cool White</b><br>Formular: per = DMX_value /655.35 |
| 12          |           |        |  |

| <b>MODE 9 GEL 8 Bit - 4 CH</b> |  |  |  |
|--------------------------------|--|--|--|
|--------------------------------|--|--|--|

| DMX Channel | DMX Value | Range | Function |
|-------------|-----------|-------|----------|
|-------------|-----------|-------|----------|

|   |         |          |  |
|---|---------|----------|--|
| 1 | 0-51    | 0-20%    | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|   | 51-102  | 20-40%   |  |
|   | 102-153 | 40-60%   |  |
|   | 153-204 | 60-80%   |  |
|   | 204-255 | 80-100%  |  |
| 2 | 0-127   | 3200K    | <b>3200K</b>   |
|   | 128-255 | 5600K    | <b>5600K</b>   |
| 3 | 0-127   | Group I  | <b>Select Group I</b>  |
|   | 128-255 | Group II | <b>Select Group II</b>   |
| 4 | 0-121   | 1-122    | <b>GEL Filter Number in Group I</b>                                |
|   | 0-190   | 123-313  | <b>GEL Filter Number in Group II</b>                               |

**MODE 10 CCT+RGBWW 8 Bit - 9 CH**

| DMX Channel | DMX Value | Range              | Function   |
|-------------|-----------|--------------------|--|
| 1           | 0-51      | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392   |
|             | 51-102    | 20-40%             |  |
|             | 102-153   | 40-60%             |  |
|             | 153-204   | 60-80%             |  |
|             | 204-255   | 80-100%            |  |
| 2           | 0-255     | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+DMX_value *28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
| 3           | 0-20      | 0%                 | <b>Green / Magenta</b>   |
|             | 21-30     | Full Magenta(100%) |  |
|             | 31-129    | Magenta (99%-1%)   |  |
|             | 130-140   | 0%                 |  |
|             | 141-240   | Green(1%-99%)      |  |
|             | 241-255   | Green(100%)        |  |
| 4           | 0-255     | 0-100%             | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW, smooth fade  |
| 5           | 0-255     | 0-100%             | <b>Red</b><br>Formular: per = DMX_value *0.392   |
| 6           | 0-255     | 0-100%             | <b>Green</b><br>Formular: per = DMX_value *0.392   |
| 7           | 0-255     | 0-100%             | <b>Blue</b><br>Formular: per = DMX_value *0.392  |
| 8           | 0-255     | 0-100%             | <b>Warm White</b><br>Formular: per = DMX_value *0.392  |
| 9           | 0-255     | 0-100%             | <b>Cool White</b><br>Formular: per = DMX_value *0.392  |

**MODE 11 CCT+RGBWW 16 Bit - 18 CH**

| DMX Channel | DMX Value   | Range              | Function   |
|-------------|-------------|--------------------|--|
| 1           | 0-65535     | 0-100%             | <b>Dimmer</b><br>Closed - Open                           |
| 2           |             |                    |  |
| 3           |             |                    |  |
| 4           |             |                    |  |
| 5           | 0-5000      | 0%                 | <b>Color Temperature</b><br>Closed - Open                |
|             | 5001-10000  | Full Magenta(100%) |  |
|             | 10001-29999 | Magenta (99%-1%)   |  |
|             | 30000-40000 | 0%                 |  |
|             | 40001-59999 | Green(1%-99%)      |  |
| 6           | 60000-65535 | Green(100%)        | <b>Green / Magenta</b>                                   |
|             |             |                    |  |
| 7           | 0-65535     | 0-100%             | <b>Crossfade</b><br>0 full CCT, 65535 full RGBWW, smooth |
| 8           |             |                    |  |

|    |         |        |                                   |
|----|---------|--------|-----------------------------------|
| 9  | 0-65535 | 0-100% | <b>Red</b>                        |
| 10 |         |        | Formular: per = DMX value /655.35 |
| 11 | 0-65535 | 0-100% | <b>Green</b>                      |
| 12 |         |        | Formular: per = DMX value /655.35 |
| 13 | 0-65535 | 0-100% | <b>Blue</b>                       |
| 14 |         |        | Formular: per = DMX value /655.35 |
| 15 | 0-65535 | 0-100% | <b>Warm White</b>                 |
| 16 |         |        | Formular: per = DMX value /655.35 |
| 17 | 0-65535 | 0-100% | <b>Cool White</b>                 |
| 18 |         |        | Formular: per = DMX value /655.35 |

**MODE 12 CCT+HSI 8 Bit - 6 CH**

| DMX Channel | DMX Value   | Range              | Function   |
|-------------|-------------|--------------------|--|
| 1           | 0-51        | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392   |
|             | 51-102      | 20-40%             |  |
|             | 102-153     | 40-60%             |  |
|             | 153-204     | 60-80%             |  |
|             | 204-255     | 80-100%            |  |
| 2           | 0-255       | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+DMX_value *28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
| 3           | 0-20        | 0%                 | <b>Green / Magenta</b>   |
|             | 21-30       | Full Magenta(100%) |  |
|             | 31-129      | Magenta (99%-1%)   |  |
|             | 130-140     | 0%                 |  |
|             | 141-240     | Green(1%-99%)      |  |
| 241-255     | Green(100%) |                    |  |
| 4           | 0-255       | 0-100%             | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW, smooth fade  |
| 5           | 0-255       | 0-360              | <b>HUE</b><br>Formular: HUE = DMX_value *1.4118  |
| 6           | 0-255       | 0-100%             | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392   |

**MODE 13 CCT+HSI 16 Bit - 12 CH**

| DMX Channel | DMX Value   | Range              | Function   |
|-------------|-------------|--------------------|--|
| 1           | 0-65535     | 0-100%             | <b>Dimmer</b><br>Closed - Open                           |
| 2           |             |                    |  |
| 3           |             |                    |  |
| 4           | 0-65535     | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open                |
| 5           | 0-5000      | 0%                 | <b>Green / Magenta</b>                                   |
|             | 5001-10000  | Full Magenta(100%) |  |
|             | 10001-29999 | Magenta (99%-1%)   |  |
| 6           | 30000-40000 | 0%                 |  |
|             | 40001-59999 | Green(1%-99%)      |  |
|             | 60000-65535 | Green(100%)        |  |
| 7           | 0-65535     | 0-100%             | <b>Crossfade</b><br>0 full CCT, 65535 full RGBWW, smooth |
| 8           |             |                    |  |
| 9           |             |                    |  |
| 10          | 0-65535     | 0-360              | <b>HUE</b><br>Formular: HUE = DMX_value *0.005493        |
| 11          | 0-65535     | 0-100%             | <b>Saturation</b><br>Closed - Open                       |
| 12          |             |                    |  |

**MODE 14 CCT+XY 8 Bit - 6 CH**

| DMX Channel | DMX Value | Range | Function |
|-------------|-----------|-------|----------|
|-------------|-----------|-------|----------|

|         |   |  |  |
|---------|---|--|--|
| 1       | 0-51<br>51-102<br>102-153<br>153-204<br>204-255 | 0-20%<br>20-40%<br>40-60%<br>60-80%<br>80-100% | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392   |
| 2       | 0-255   | 2700-10000K                                    | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+DMX_value *28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
| 3       | 0-20  | 0%   | <b>Green / Magenta</b>   |
|         | 21-30   | Full Magenta(100%)                             |  |
|         | 31-129  | Magenta (99%-1%)                               |  |
|         | 130-140   | 0%   |  |
|         | 141-240   | Green(1%-99%)                                  |  |
| 241-255 | Green(100%)                                     |  |  |
| 4       | 0-255   | 0-100%   | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW, smooth fade  |
| 5       | 0-255   | X*255  | <b>X Coordinate</b><br>Formular: X = DMX_value /255  |
| 6       | 0-255   | Y*255  | <b>Y Coordinate</b><br>Formular: Y = DMX_value /255  |

**MODE 15 CCT+XY 16 Bit - 12 CH**

| DMX Channel | DMX Value   | Range       | Function   |
|-------------|-------------|-------------|--|
| 1           | 0-65535     | 0-100%      | <b>Dimmer</b><br>Closed - Open                           |
| 2           |             |             |  |
| 3           | 0-65535     | 2700-10000K | <b>Color Temperature</b><br>Closed - Open                |
| 4           |             |             |  |
| 5           | 0-5000      | 0-100%      | <b>Green / Magenta</b>                                   |
|             | 5001-10000  | 0-100%      |  |
|             | 10001-29999 | 0-100%      |  |
| 6           | 30000-40000 | 0%          |  |
|             | 40001-59999 | 0-100%      |  |
|             | 60000-65535 | 0-100%      |  |
| 7           | 0-65535     | 0-100%      | <b>Crossfade</b><br>0 full CCT, 65535 full RGBWW, smooth |
| 8           |             |             |  |
| 9           | 0-65535     | X*65535     | <b>X Coordinate</b><br>Formular: X = DMX_value /65535    |
| 10          |             |             |  |
| 11          | 0-65535     | Y*65535     | <b>Y Coordinate</b><br>Formular: Y = DMX_value /65535    |
| 12          |             |             |  |

**MODE 16 CCT+GEL 8 Bit - 7 CH**

| DMX Channel | DMX Value                                       | Range  | Function   |
|-------------|---|--|--|
| 1           | 0-51<br>51-102<br>102-153<br>153-204<br>204-255 | 0-20%<br>20-40%<br>40-60%<br>60-80%<br>80-100% | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |

|   |         |                    |  |
|---|---------|--------------------|--|
| 2 | 0-255   | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+DMX_value *28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
| 3 | 0-20    | 0%                 | <b>Green / Magenta</b>   |
|   | 21-30   | Full Magenta(100%) |  |
|   | 31-129  | Magenta (99%-1%)   |  |
|   | 130-140 | 0%                 |  |
|   | 141-240 | Green(1%-99%)      |  |
|   | 241-255 | Green(100%)        |  |
| 4 | 0-255   | 0-100%             | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW, smooth fade  |
| 5 | 0-127   | 3200K              | <b>3200K</b>   |
|   | 128-255 | 5600K              | <b>5600K</b>   |
| 6 | 0-127   | Group I            | <b>Select Group I</b>  |
|   | 128-255 | Group II           | <b>Select Group II</b>   |
| 7 | 0-121   | 1-122              | <b>GEL Filter Number in Group I</b>  |
|   | 0-190   | 123-313            | <b>GEL Filter Number in Group II</b>   |

**MODE 17 CCT+GEL 16 Bit - 11 CH**

| DMX Channel | DMX Value | Range       | Function   |             |                    |
|-------------|-----------|-------------|--|-------------|--------------------|
| 1           | 0-65535   | 0-100%      | <b>Dimmer</b><br>Closed - Open                           |             |                    |
| 2           |           |             |  |             |                    |
| 3           |           |             |  |             |                    |
| 4           |           |             |  |             |                    |
| 5           | 0-65535   | 2700-10000K | <b>Color Temperature</b><br>Closed - Open                |             |                    |
|             |           |             |  | 0-5000      | 0%                 |
|             |           |             |  | 5001-10000  | Full Magenta(100%) |
|             |           |             |  | 10001-29999 | Magenta (99%-1%)   |
| 6           | 0-65535   | 0-100%      | <b>Green / Magenta</b>                                   |             |                    |
|             |           |             |  | 30000-40000 | 0%                 |
|             |           |             |  | 40001-59999 | Green(1%-99%)      |
|             |           |             |  | 60000-65535 | Green(100%)        |
| 7           | 0-65535   | 0-100%      | <b>Crossfade</b><br>0 full CCT, 65535 full RGBWW, smooth |             |                    |
| 8           |           |             |  |             |                    |
| 9           | 0-127     | 3200K       | <b>3200K</b>   |             |                    |
|             | 128-255   | 5600K       | <b>5600K</b>   |             |                    |
| 10          | 0-127     | Group I     | <b>Select Group I</b>                                    |             |                    |
|             | 128-255   | Group II    | <b>Select Group II</b>                                   |             |                    |
| 11          | 0-121     | 1-122       | <b>GEL Filter Number in Group I</b>                      |             |                    |
|             | 0-190     | 123-313     | <b>GEL Filter Number in Group II</b>                     |             |                    |

**MODE 18 RGBWW+HSI 8 Bit - 9 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |
| 2           | 0-255     | 0-100%  | <b>Red</b><br>Formular: per = DMX_value *0.392                     |
| 3           | 0-255     | 0-100%  | <b>Green</b><br>Formular: per = DMX_value *0.392                   |
| 4           | 0-255     | 0-100%  | <b>Blue</b><br>Formular: per = DMX_value *0.392                    |
| 5           | 0-255     | 0-100%  | <b>Warm White</b><br>Formular: per = DMX_value *0.392              |

|   |       |        |  |
|---|-------|--------|--|
| 6 | 0-255 | 0-100% | <b>Cool White</b><br>Formular: per = DMX_value *0.392                  |
| 7 | 0-255 | 0-100% | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW, smooth fade            |
| 8 | 0-255 | 0-360  | <b>HUE</b><br>Formular: HUE = DMX_value *1.4118                        |
| 9 | 0-255 | 0-100% | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |

**MODE 19 RGBWW+HSI 16 Bit - 18 CH**

| DMX Channel | DMX Value | Range  | Function                             |
|-------------|-----------|--------|--------------------------------------|
| 1           | 0-65535   | 0-100% | <b>Dimmer</b>                        |
| 2           |           |        | Closed - Open                        |
| 3           | 0-65535   | 0-100% | <b>Red</b>                           |
| 4           |           |        | Formular: per = DMX_value /655.35    |
| 5           | 0-65535   | 0-100% | <b>Green</b>                         |
| 6           |           |        | Formular: per = DMX_value /655.35    |
| 7           | 0-65535   | 0-100% | <b>Blue</b>                          |
| 8           |           |        | Formular: per = DMX_value /655.35    |
| 9           | 0-65535   | 0-100% | <b>Warm White</b>                    |
| 10          |           |        | Formular: per = DMX_value /655.35    |
| 11          | 0-65535   | 0-100% | <b>Cool White</b>                    |
| 12          |           |        | Formular: per = DMX_value /655.35    |
| 13          | 0-65535   | 0-100% | <b>Crossfade</b>                     |
| 14          |           |        | 0 full CCT, 65535 full RGBWW, smooth |
| 15          | 0-65535   | 0-360  | <b>Hue</b>                           |
| 16          |           |        | Formular: per = DMX_value *0.005493  |
| 17          | 0-65535   | 0-100% | <b>Saturation</b>                    |
| 18          |           |        | Closed - Open                        |

**MODE 20 RGBWW+XY 8 Bit - 9 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |
| 2           | 0-255     | 0-100%  | <b>Red</b><br>Formular: per = DMX_value *0.392                     |
| 3           | 0-255     | 0-100%  | <b>Green</b><br>Formular: per = DMX_value *0.392                   |
| 4           | 0-255     | 0-100%  | <b>Blue</b><br>Formular: per = DMX_value *0.392                    |
| 5           | 0-255     | 0-100%  | <b>Warm White</b><br>Formular: per = DMX_value *0.392              |
| 6           | 0-255     | 0-100%  | <b>Cool White</b><br>Formular: per = DMX_value *0.392              |
| 7           | 0-255     | 0-100%  | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW, smooth fade        |
| 8           | 0-255     | X*255   | <b>X Coordinate</b><br>Formular: X = DMX_value /255                |
| 9           | 0-255     | Y*255   | <b>Y Coordinate</b><br>Formular: Y = DMX_value /255                |

**MODE 21 RGBWW+XY 16 Bit - 18 CH**

| DMX Channel | DMX Value | Range  | Function                          |
|-------------|-----------|--------|-----------------------------------|
| 1           | 0-65535   | 0-100% | <b>Dimmer</b>                     |
| 2           |           |        | Closed - Open                     |
| 3           | 0-65535   | 0-100% | <b>Red</b>                        |
| 4           |           |        | Formular: per = DMX_value /655.35 |

|    |         |         |                                      |
|----|---------|---------|--------------------------------------|
| 5  | 0-65535 | 0-100%  | <b>Green</b>                         |
| 6  |         |         | Formular: per = DMX_value /655.35    |
| 7  | 0-65535 | 0-100%  | <b>Blue</b>                          |
| 8  |         |         | Formular: per = DMX_value /655.35    |
| 9  | 0-65535 | 0-100%  | <b>Warm</b>                          |
| 10 |         |         | Formular: per = DMX_value /655.35    |
| 11 | 0-65535 | 0-100%  | <b>Cool White</b>                    |
| 12 |         |         | Formular: per = DMX_value /655.35    |
| 13 | 0-65535 | 0-100%  | <b>Crossfade</b>                     |
| 14 |         |         | 0 full CCT, 65535 full RGBWW, smooth |
| 15 | 0-65535 | X*65535 | <b>X Coordinate</b>                  |
| 16 |         |         | Formular: X = DMX_value /65535       |
| 17 | 0-65535 | Y*65535 | <b>Y Coordinate</b>                  |
| 18 |         |         | Formular: Y = DMX_value /655.35      |

**MODE 22 HSI+XY 8 Bit - 6 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392     |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |
| 2           | 0-255     | 0-360   | <b>Hue</b><br>Closed - Open<br>Formular: HUE = DMX_value *1.4118       |
| 3           | 0-255     | 0-100%  | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
| 4           | 0-255     | 0-100%  | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW, smooth fade            |
| 5           | 0-255     | X*255   | <b>X Coordinate</b><br>Formular: X = DMX_value /255                    |
| 6           | 0-255     | Y*255   | <b>Y Coordinate</b><br>Formular: Y = DMX_value /255                    |

**MODE 23 HSI+XY 16 Bit - 12 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-65535   | 0-100%  | <b>Dimmer</b><br>Closed - Open                           |
| 2           |           |         |  |
| 3           | 0-65535   | 0-360   | <b>Hue</b><br>Closed - Open                              |
| 4           |           |         |  |
| 5           | 0-65535   | 0-100%  | <b>Saturation</b><br>Closed - Open                       |
| 6           |           |         |  |
| 7           | 0-65535   | 0-100%  | <b>Crossfade</b><br>0 full CCT, 65535 full RGBWW, smooth |
| 8           |           |         |  |
| 9           | 0-65535   | X*65535 | <b>X Coordinate</b><br>Formular: X = DMX_value /65535    |
| 10          |           |         |  |
| 11          | 0-65535   | Y*65535 | <b>Y Coordinate</b><br>Formular: Y = DMX_value /65535    |
| 12          |           |         |  |

**MODE 24 EFFECT - CCT Chase 7 CH**

| DMX Channel | DMX Value | Range       | Function   |
|-------------|-----------|-------------|--|
| 1           | 0-51      | 0-20%       | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392         |
|             | 51-102    | 20-40%      |  |
|             | 102-153   | 40-60%      |  |
|             | 153-204   | 60-80%      |  |
|             | 204-255   | 80-100%     |  |
| 2           | 000-014   |             | <b>CCT Chase</b>   |
| 3           | 0-255     | 2700-10000K | <b>CCT Start</b><br>Formular: Color Temperature = 2700 + DMX_value *28.627 |



|         |         |                                  |   |
|---------|---------|----------------------------------|---|
| 4       | 0-255   | 2700-10000K                      | <b>CCT Stop</b><br>Formular: Color Temperature = 2700 + DMX_value *28.627 |
| 5       | 0-20    | 0%                               | <b>Green / Magenta</b>  |
|         | 21-30   | Full Magenta(100%)               |   |
|         | 31-129  | Magenta (99%-1%)                 |   |
|         | 130-140 | 0%                               |   |
|         | 141-240 | Green(1%-99%)                    |   |
|         | 241-255 | Green(100%)                      |   |
| 6       | 10-19   | Loop time increase<br>60 seconds | <b>Loop time (max 600 second)</b>   |
|         | 20-29   | 120 seconds                      |   |
|         | 30-39   | 180 seconds                      |   |
|         | 40-49   | 240 seconds                      |   |
|         | 50-59   | 300 seconds                      |   |
|         | 60-69   | 360 seconds                      |   |
|         | 70-79   | 420 seconds                      |   |
|         | 80-89   | 480 seconds                      |   |
|         | 90-99   | 540 seconds                      |   |
|         | 7       | 0-50                             |   |
| 50-100  |         | 50-100 seconds                   |   |
| 100-150 |         | 100-150 seconds                  |   |
| 150-200 |         | 150-200 seconds                  |   |
| 200-255 |         | 200-255 seconds                  |   |

| <b>MODE 24 EFFECT - Color Chase 7 CH</b> |                  |                                  |  |
|--|------------------|----------------------------------|--|
| <b>DMX Channel</b>                       | <b>DMX Value</b> | <b>Range</b>                     | <b>Function</b>  |
| 1  | 0-255            | 0-100%                           | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392     |
| 2  | 015-026          |                                  | <b>Color Chase</b>   |
| 3  | 0-42             | 0°-60°                           | <b>HUE Start</b><br>Formular: HUE = DMX_value *1.4118                  |
|  | 42-85            | 60°-120°                         |  |
|  | 85-127           | 120°-180°                        |  |
|  | 127-170          | 180°-240°                        |  |
|  | 170-212          | 240°-300°                        |  |
|  | 212-255          | 300°-360°                        |  |
| 4  | 0-42             | 0°-60°                           | <b>HUE Stop</b><br>Formular: HUE = DMX_value *1.4118                   |
|  | 42-85            | 60°-120°                         |  |
|  | 85-127           | 120°-180°                        |  |
|  | 127-170          | 180°-240°                        |  |
|  | 170-212          | 240°-300°                        |  |
|  | 212-255          | 300°-360°                        |  |
| 5  | 0-255            | 0%                               | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
| 6  | 10-19            | Loop time increase<br>60 seconds | <b>Loop time (max 600 second)</b>                                      |
|  | 20-29            | 120 seconds                      |  |
|  | 30-39            | 180 seconds                      |  |
|  | 40-49            | 240 seconds                      |  |
|  | 50-59            | 300 seconds                      |  |
|  | 60-69            | 360 seconds                      |  |
|  | 70-79            | 420 seconds                      |  |
|  | 80-89            | 480 seconds                      |  |
|  | 90-99            | 540 seconds                      |  |

|   |   |   |                    |
|---|---|---|--------------------|
| 7 | 0-50<br>50-100<br>100-150<br>150-200<br>200-255 | 0-50 seconds<br>50-100 seconds<br>100-150 seconds<br>150-200 seconds<br>200-255 seconds | <b>Second/Loop</b> |
|---|---|---|--------------------|

| <b>MODE 24 EFFECT - Fireworks 7 CH</b> |                  |              |  |
|--|------------------|--------------|--|
| <b>DMX Channel</b>                     | <b>DMX Value</b> | <b>Range</b> | <b>Function</b>  |
| 1                                      | 0-51             | 0-20%        | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392     |
|  | 51-102           | 20-40%       |  |
|  | 102-153          | 40-60%       |  |
|  | 153-204          | 60-80%       |  |
|  | 204-255          | 80-100%      |  |
| 2                                      | 027-039          |              | <b>Fireworks</b>   |
| 3                                      | 0-255            | 0-360        | <b>HUE Start</b><br>Formular: HUE = DMX_value *1.4118                  |
| 4                                      | 0-255            | 0-360        | <b>HUE Stop</b><br>Formular: HUE = DMX_value *1.4118                   |
| 5                                      | 0-255            | 0-100%       | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
| 6                                      | 0-255            | 0-60         | <b>Explosion/min</b><br>Formular: speed = dmx_value/4.25               |
| 7                                      | 0-255            | 5-95         | <b>Duration</b><br>Formular: duty = 5+DMX_value *0.353                 |

| <b>MODE 24 EFFECT - Fire 4 CH</b> |                  |              |  |
|-----------------------------------|------------------|--------------|--|
| <b>DMX Channel</b>                | <b>DMX Value</b> | <b>Range</b> | <b>Function</b>  |
| 1                                 | 0-51             | 0-20%        | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|                                   | 51-102           | 20-40%       |  |
|                                   | 102-153          | 40-60%       |  |
|                                   | 153-204          | 60-80%       |  |
|                                   | 204-255          | 80-100%      |  |
| 2                                 | 040-052          |              | <b>Fire</b>  |
| 3                                 | 0-255            | 0-100        | <b>Wind Speed</b><br>Formular: per = DMX_value *0.392              |
| 4                                 | 0-49             | 0-49         | <b>Fire Type: Candle</b>   |
|                                   | 50-99            | 50-99        | <b>Fire Type: Campfire</b>   |
|                                   | 100-149          | 100-149      | <b>Fire Type: bonfire</b>  |

| <b>MODE 24 EFFECT - Explosion 5 CH</b> |                  |              |  |
|--|------------------|--------------|--|
| <b>DMX Channel</b>                     | <b>DMX Value</b> | <b>Range</b> | <b>Function</b>  |
| 1                                      | 0-51             | 0-20%        | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|  | 51-102           | 20-40%       |  |
|  | 102-153          | 40-60%       |  |
|  | 153-204          | 60-80%       |  |
|  | 204-255          | 80-100%      |  |
| 2                                      | 053-065          |              | <b>Explosion</b>   |
| 3                                      | 0-255            | 0-60         | <b>Explosion/min</b><br>Formular: speed = DMX_value /4.25          |
| 4                                      | 0-255            | 5-95         | <b>Duration</b><br>Formular: duty = 5 + DMX_value *0.353           |
| 5                                      | 0-49             | 0-49         | Fire Type: Warm  |
|  | 50-99            | 50-99        | <b>Fire Type: Cool</b>   |
|  | 100-149          | 100-149      | <b>Fire Type: Colors</b>   |

| <b>MODE 24 EFFECT - Lightning 5 CH</b> |                  |              |                 |
|--|------------------|--------------|-----------------|
| <b>DMX Channel</b>                     | <b>DMX Value</b> | <b>Range</b> | <b>Function</b> |

|   |   |  |  |
|---|---|--|--|
| 1 | 0-51<br>51-102<br>102-153<br>153-204<br>204-255 | 0-20%<br>20-40%<br>40-60%<br>60-80%<br>80-100% | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392   |
| 2 | 066-077   |  | <b>Lightning</b>   |
| 3 | 0-255   | 2700-10000K                                    | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+DMX_value *28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
| 4 | 0-20  | 0%   | <b>Green / Magenta</b>   |
|   | 21-30   | Full Magenta(100%)                             |  |
|   | 31-129  | Magenta (99%-1%)                               |  |
|   | 130-140   | 0%   |  |
|   | 141-240   | Green(1%-99%)                                  |  |
|   | 241-255   | Green(100%)                                    |  |
| 5 | 0-255   | 1-60   | <b>Intervals (Second)</b><br>Formular: time = DMX_value /4.25  |

| MODE 24     |   | EFFECT - Paparazzi                             |   | 6 CH |  |
|-------------|---|--|---|------|--|
| DMX Channel | DMX Value                                       | Range  | Function  |      |  |
| 1           | 0-51<br>51-102<br>102-153<br>153-204<br>204-255 | 0-20%<br>20-40%<br>40-60%<br>60-80%<br>80-100% | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392  |      |  |
| 2           | 078-090   |  | <b>Paparazzi</b>  |      |  |
| 3           | 0-255   | 2700-10000K                                    | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+<br>DMX_value*28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |      |  |
| 4           | 0-20  | 0%   | <b>Green / Magenta</b>  |      |  |
|             | 21-30   | Full Magenta(100%)                             |   |      |  |
|             | 31-129  | Magenta (99%-1%)                               |   |      |  |
|             | 130-140   | 0%   |   |      |  |
|             | 141-240   | Green(1%-99%)                                  |   |      |  |
|             | 241-255   | Green(100%)                                    |   |      |  |
| 5           | 0-255   | 0-25Hz   | <b>Frequency</b><br>Formular: frequency = DMX_value /10.2   |      |  |
| 6           | 0-49  | 0-49   | <b>Bulb Type: Slow</b>  |      |  |
|             | 50-99   | 50-99  | <b>Bulb Type: Medium</b>  |      |  |
|             | 100-149   | 100-149  | <b>Bulb Type: Fast</b>  |      |  |
|             | 150-199   | 150-199  | <b>Bulb Type: Modern</b>  |      |  |

| MODE 24     |   | EFFECT - Pulse                                 |  | 5 CH |  |
|-------------|---|--|--|------|--|
| DMX Channel | DMX Value                                       | Range  | Function   |      |  |
| 1           | 0-51<br>51-102<br>102-153<br>153-204<br>204-255 | 0-20%<br>20-40%<br>40-60%<br>60-80%<br>80-100% | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |      |  |

|   |         |        |  |
|---|---------|--------|--|
| 2 | 091-103 |        | <b>Pulse</b>   |
| 3 | 0-255   | 0-360  | <b>HUE</b><br>Formular: HUE = DMX_value *1.4118                        |
| 4 | 0-255   | 0-100% | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
| 5 | 0-255   | 1-200  | <b>Pulses/min</b><br>Formular: frequency = 1+DMX_value / 1.281         |

| MODE 24     |           | EFFECT - Police |  | 6 CH |  |
|-------------|-----------|-----------------|--|------|--|
| DMX Channel | DMX Value | Range           | Function   |      |  |
| 1           | 0-51      | 0-20%           | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |      |  |
|             | 51-102    | 20-40%          |  |      |  |
|             | 102-153   | 40-60%          |  |      |  |
|             | 153-204   | 60-80%          |  |      |  |
|             | 204-255   | 80-100%         |  |      |  |
| 2           | 104-116   |                 | <b>Police</b>  |      |  |
| 3           | 0-9       | 0-9             | <b>Colors: Red, Blue &amp; White</b>                               |      |  |
|             | 10--19    | 10--19          | <b>Colors: Red &amp; Blue</b>                                      |      |  |
|             | 20--29    | 20--29          | <b>Colors: Red &amp; White</b>                                     |      |  |
|             | 30--39    | 30--39          | <b>Colors: Blue &amp; White</b>                                    |      |  |
|             | 40--49    | 40--49          | <b>Colors: Blue</b>  |      |  |
|             | 50--59    | 50--59          | <b>Colors: Red</b>   |      |  |
|             | 60--69    | 60--69          | <b>Colors: Amber</b>   |      |  |
| 4           | 0-49      | 0-49            | <b>Flash/cycle: 1</b>  |      |  |
|             | 50-99     | 50-99           | <b>Flash/cycle: 2</b>  |      |  |
|             | 100-149   | 100-149         | <b>Flash/cycle: 3</b>  |      |  |
|             | 150-199   | 150-199         | <b>Flash/cycle: 4</b>  |      |  |
| 5           | 0-255     | 0-100           | <b>Speed</b><br>Formular: per = DMX_value *0.392                   |      |  |
| 6           | 0-255     | 5-95            | <b>Duration</b><br>Formular: duty = 5+ DMX_value *0.353            |      |  |

| MODE 24     |           | EFFECT - Strobe Color |  | 6 CH |  |
|-------------|-----------|-----------------------|--|------|--|
| DMX Channel | DMX Value | Range                 | Function   |      |  |
| 1           | 0-51      | 0-20%                 | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392     |      |  |
|             | 51-102    | 20-40%                |  |      |  |
|             | 102-153   | 40-60%                |  |      |  |
|             | 153-204   | 60-80%                |  |      |  |
|             | 204-255   | 80-100%               |  |      |  |
| 2           | 117-128   |                       | <b>Strobe Color</b>  |      |  |
| 3           | 0-255     | 0-360                 | <b>HUE</b><br>Formular: HUE = DMX_value *1.4118                        |      |  |
| 4           | 0-255     | 0-100                 | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |      |  |
| 5           | 0-255     | 0-25Hz                | <b>Frequency</b><br>Formular: Frequency = DMX_value /10.2              |      |  |
| 6           | 0-255     | 5-95                  | <b>Duration</b><br>Formular: duty = 5+ DMX_value *0.353                |      |  |

| MODE 24     |           | EFFECT - Strobe CCT |  | 6 CH |  |
|-------------|-----------|---------------------|--|------|--|
| DMX Channel | DMX Value | Range               | Function   |      |  |
| 1           | 0-51      | 0-20%               | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |      |  |
|             | 51-102    | 20-40%              |  |      |  |
|             | 102-153   | 40-60%              |  |      |  |
|             | 153-204   | 60-80%              |  |      |  |
|             | 204-255   | 80-100%             |  |      |  |
| 2           | 129-141   |                     | <b>Strobe CCT</b>  |      |  |

|   |         |                    |  |
|---|---------|--------------------|--|
| 3 | 0-255   | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+DMX_value *28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
| 4 | 0-20    | 0%                 | <b>Green / Magenta</b>   |
|   | 21-30   | Full Magenta(100%) |  |
|   | 31-129  | Magenta (99%-1%)   |  |
|   | 130-140 | 0%                 |  |
|   | 141-240 | Green(1%-99%)      |  |
|   | 241-255 | Green(100%)        |  |
| 5 | 0-255   | 0-25Hz             | <b>Frequency</b><br>Formular: frequency = DMX_value /10.2  |
| 6 | 0-255   | 5-95               | <b>Duration</b><br>Formular: duty = 5+ DMX_value *0.353  |

| MODE 25     |           | Macro - 2 CH |  |
|-------------|-----------|--------------|--|
| DMX Channel | DMX Value | Range        | Function   |
| 1           | 0-51      | 0-20%        | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|             | 51-102    | 20-40%       |  |
|             | 102-153   | 40-60%       |  |
|             | 153-204   | 60-80%       |  |
|             | 204-255   | 80-100%      |  |
| 2           | 0-46      | 0-46         | Pls check: Appendix I Macro  |

| INDIVIDUAL MODE (LIGHT 1 - 3) |           |                    |  |
|-------------------------------|-----------|--------------------|--|
| LIGHT 1 - MODE 1              |           | CCT 8 Bit - 3 CH   |  |
| DMX Channel                   | DMX Value | Range              | Function   |
| 1                             | 0-51      | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392   |
|                               | 51-102    | 20-40%             |  |
|                               | 102-153   | 40-60%             |  |
|                               | 153-204   | 60-80%             |  |
|                               | 204-255   | 80-100%            |  |
| 2                             | 0-255     | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br><br>Formular:<br>Color Temperature = 2700+DMX_value *28.627<br><br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
| 3                             | 0-20      | 0                  | <b>Green / Magenta</b>   |
|                               | 21-30     | Full Magenta(100%) |  |
|                               | 30-130    | Magenta(99%-1%)    |  |
|                               | 130-140   | 0%                 |  |
|                               | 141-240   | Green(1%-99%)      |  |
|                               | 241-255   | Green(100%)        |  |

**LIGHT 2 - MODE 1 CCT 8 Bit - 3 CH**  
DMX Channel 4 - 6, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 1 CCT 8 Bit - 3 CH**  
DMX Channel 7 - 9, the value and function is same as LIGHT 1

| LIGHT 1 - MODE 2 |             | CCT 16 Bit - 6 CH  |   |
|------------------|-------------|--------------------|---|
| DMX Channel      | DMX Value   | Range              | Function                                  |
| 1                | 0-65535     | 0-100%             | <b>Dimmer</b><br>Closed - Open            |
| 2                |             |                    |   |
| 3                | 0-65535     | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open |
| 4                |             |                    |   |
| 5                | 0-5000      | 0%                 | <b>Green / Magenta</b>                    |
|                  | 5001-10000  | Full Magenta(100%) |   |
|                  | 10001-29999 | Magenta(99%-1%)    |   |
| 6                | 30000-40000 | 0%                 |   |
|                  | 40001-59999 | Green(1%-99%)      |   |
|                  | 60000-65535 | Green(100%)        |   |

**LIGHT 2 - MODE 2 CCT 16 Bit - 6 CH**

DMX Channel 7 - 12, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 2 CCT 16 Bit - 6 CH**

DMX Channel 13 - 18, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 3 HSI 8 Bit - 3 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392     |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |
| 2           | 0-255     | 0-360   | <b>Hue</b><br>Closed - Open<br>Formular: HUE = DMX_value *1.4118       |
| 3           | 0-255     | 0-100%  | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |

**LIGHT 2 - MODE 3 HSI 8 Bit - 3 CH**

DMX Channel 4 - 6, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 3 HSI 8 Bit - 3 CH**

DMX Channel 7 - 9, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 4 HSI 16 Bit - 6 CH**

| DMX Channel | DMX Value | Range  | Function                           |
|-------------|-----------|--------|------------------------------------|
| 1           | 0-65535   | 0-100% | <b>Dimmer</b><br>Closed - Open     |
| 2           |           |        |                                    |
| 3           | 0-65535   | 0-360  | <b>Hue</b><br>Closed - Open        |
| 4           |           |        |                                    |
| 5           | 0-65535   | 0-100% | <b>Saturation</b><br>Closed - Open |
| 6           |           |        |                                    |

**LIGHT 2 - MODE 4 HSI 16 Bit - 6 CH**

DMX Channel 7 - 12, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 4 HSI 16 Bit - 6 CH**

DMX Channel 13 - 18, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 5 XY 8 Bit - 3 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |
| 2           | 0-255     | X*255   | <b>X Coordinate</b><br>Formular: X = DMX_value /255                |

|   |       |       |   |
|---|-------|-------|---|
| 3 | 0-255 | Y*255 | <b>Y Coordinate</b><br>Formular: Y = DMX_value /255 |
|---|-------|-------|---|

**LIGHT 2 - MODE 5 XY 8 Bit - 3 CH**  
DMX Channel 4 - 6, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 5 XY 8 Bit - 3 CH**  
DMX Channel 7 - 9, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 6 XY 16 Bit - 6 CH**

| DMX Channel | DMX Value | Range   | Function  |
|-------------|-----------|---------|---|
| 1           | 0-65535   | 0-100%  | <b>Dimmer</b><br>Closed – Open                        |
| 2           |           |         |   |
| 3           | 0-65535   | X*65535 | <b>X Coordinate</b><br>Formular: X = DMX_value /65535 |
| 4           |           |         |   |
| 5           | 0-65535   | Y*65535 | <b>Y Coordinate</b><br>Formular: Y = DMX_value /65535 |
| 6           |           |         |   |

**LIGHT 2 - MODE 6 XY 16 Bit - 6 CH**  
DMX Channel 7 - 12, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 6 XY 16 Bit - 6 CH**  
DMX Channel 13 - 18, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 7 RGBWW 8 Bit - 6 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |
| 2           | 0-255     | 0-100%  | <b>Red</b><br>Formular: per = DMX_value *0.392                     |
| 3           | 0-255     | 0-100%  | <b>Green</b><br>Formular: per = DMX_value *0.392                   |
| 4           | 0-255     | 0-100%  | <b>Blue</b><br>Formular: per = DMX_value *0.392                    |
| 5           | 0-255     | 0-100%  | <b>Warm White</b><br>Formular: per = DMX_value *0.392              |
| 6           | 0-255     | 0-100%  | <b>Cool White</b><br>Formular: per = DMX_value *0.392              |

**LIGHT 2 - MODE 7 RGBWW 8 Bit - 6 CH**  
DMX Channel 7 - 12, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 7 RGBWW 8 Bit - 6 CH**  
DMX Channel 13 - 18, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 8 RGBWW 16 Bit - 12 CH**

| DMX Channel | DMX Value | Range  | Function   |
|-------------|-----------|--------|--|
| 1           | 0-65535   | 0-100% | <b>Dimmer</b><br>Closed - Open                         |
| 2           |           |        |  |
| 3           | 0-65535   | 0-100% | <b>Red</b><br>Formular: per = DMX_value /655.35        |
| 4           |           |        |  |
| 5           | 0-65535   | 0-100% | <b>Green</b><br>Formular: per = DMX_value /655.35      |
| 6           |           |        |  |
| 7           | 0-65535   | 0-100% | <b>Blue</b><br>Formular: per = DMX_value /655.35       |
| 8           |           |        |  |
| 9           | 0-65535   | 0-100% | <b>Warm White</b><br>Formular: per = DMX_value /655.35 |
| 10          |           |        |  |
| 11          | 0-65535   | 0-100% | <b>Cool White</b><br>Formular: per = DMX_value /655.35 |
| 12          |           |        |  |

**LIGHT 2 - MODE 8 RGBWW 16 Bit - 12 CH**

DMX Channel 13 - 24, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 8 RGBWW 16 Bit - 12 CH**

DMX Channel 25 - 36, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 9 GEL 8 Bit - 4 CH**

| DMX Channel | DMX Value | Range    | Function   |
|-------------|-----------|----------|--|
| 1           | 0-51      | 0-20%    | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|             | 51-102    | 20-40%   |  |
|             | 102-153   | 40-60%   |  |
|             | 153-204   | 60-80%   |  |
|             | 204-255   | 80-100%  |  |
| 2           | 0-127     | 3200K    | <b>3200K</b>   |
|             | 128-255   | 5600K    | <b>5600K</b>   |
| 3           | 0-127     | Group I  | <b>Select Group I</b>  |
|             | 128-255   | Group II | <b>Select Group II</b>   |
| 4           | 0-121     | 1-122    | <b>GEL Filter Number in Group I</b>                                |
|             | 0-190     | 123-313  | <b>GEL Filter Number in Group II</b>                               |

**LIGHT 2 - MODE 9 GEL 8 Bit - 4 CH**

DMX Channel 5 - 8, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 9 GEL 8 Bit - 4 CH**

DMX Channel 9 - 12, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 10 CCT+RGBWW 8 Bit - 9 CH**

| DMX Channel | DMX Value | Range              | Function   |
|-------------|-----------|--------------------|--|
| 1           | 0-51      | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392   |
|             | 51-102    | 20-40%             |  |
|             | 102-153   | 40-60%             |  |
|             | 153-204   | 60-80%             |  |
|             | 204-255   | 80-100%            |  |
| 2           | 0-255     | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+DMX_value *28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
| 3           | 0-20      | 0%                 | <b>Green / Magenta</b>   |
|             | 21-30     | Full Magenta(100%) |  |
|             | 31-129    | Magenta(99%-1%)    |  |
|             | 130-140   | 0%                 |  |
|             | 141-240   | Green(1%-99%)      |  |
|             | 241-255   | Green(100%)        |  |
| 4           | 0-255     | 0-100%             | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW, smooth fade  |
| 5           | 0-255     | 0-100%             | <b>Red</b><br>Formular: per = DMX_value *0.392   |
| 6           | 0-255     | 0-100%             | <b>Green</b><br>Formular: per = DMX_value *0.392   |
| 7           | 0-255     | 0-100%             | <b>Blue</b><br>Formular: per = DMX_value *0.392  |
| 8           | 0-255     | 0-100%             | <b>Warm White</b><br>Formular: per = DMX_value *0.392  |
| 9           | 0-255     | 0-100%             | <b>Cool White</b><br>Formular: per = DMX_value *0.392  |

**LIGHT 2 - MODE 10 CCT+RGBWW 8 Bit - 9 CH**



DMX Channel 10 - 18, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 10 CT+RGBWW 8 Bit - 9 CH**

DMX Channel 19 - 27, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 11 CT+RGBWW 16 Bit - 18 CH**

| DMX Channel | DMX Value   | Range              | Function   |
|-------------|-------------|--------------------|--|
| 1           | 0-65535     | 0-100%             | <b>Dimmer</b><br>Closed - Open                           |
| 2           |             |                    |  |
| 3           | 0-65535     | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open                |
| 4           |             |                    |  |
| 5           | 0-5000      | 0%                 | <b>Green / Magenta</b>                                   |
|             | 5001-10000  | Full Magenta(100%) |  |
|             | 10001-29999 | Magenta(99%-1%)    |  |
| 6           | 30000-40000 | 0%                 |  |
|             | 40001-59999 | Green(1%-99%)      |  |
|             | 60000-65535 | Green(100%)        |  |
| 7           | 0-65535     | 0-100%             | <b>Crossfade</b><br>0 full CCT, 65535 full RGBWW, smooth |
| 8           |             |                    |  |
| 9           | 0-65535     | 0-100%             | <b>Red</b><br>Formular: per = DMX value /655.35          |
| 10          |             |                    |  |
| 11          | 0-65535     | 0-100%             | <b>Green</b><br>Formular: per = DMX value /655.35        |
| 12          |             |                    |  |
| 13          | 0-65535     | 0-100%             | <b>Blue</b><br>Formular: per = DMX value /655.35         |
| 14          |             |                    |  |
| 15          | 0-65535     | 0-100%             | <b>Warm White</b><br>Formular: per = DMX value /655.35   |
| 16          |             |                    |  |
| 17          | 0-65535     | 0-100%             | <b>Cool White</b><br>Formular: per = DMX value /655.35   |
| 18          |             |                    |  |

**LIGHT 2 - MODE 11 CT+RGBWW 16 Bit - 18 CH**

DMX Channel 19 - 36, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 11 CT+RGBWW 16 Bit - 18 CH**

DMX Channel 37 - 54, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 12 CCT+HSI 8 Bit - 6 CH**

| DMX Channel | DMX Value | Range              | Function   |
|-------------|-----------|--------------------|--|
| 1           | 0-51      | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392   |
|             | 51-102    | 20-40%             |  |
|             | 102-153   | 40-60%             |  |
|             | 153-204   | 60-80%             |  |
|             | 204-255   | 80-100%            |  |
| 2           | 0-255     | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+DMX_value *28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
|             |           |                    |  |
| 3           | 0-20      | 0%                 | <b>Green / Magenta</b>   |
|             | 21-30     | Full Magenta(100%) |  |
|             | 31-129    | Magenta(99%-1%)    |  |
|             | 130-140   | 0%                 |  |
|             | 141-240   | Green(1%-99%)      |  |
|             | 241-255   | Green(100%)        |  |
| 4           | 0-255     | 0-100%             | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW, smooth fade  |
| 5           | 0-255     | 0-360              | <b>HUE</b><br>Formular: HUE = DMX_value *1.4118  |

|   |       |        |  |
|---|-------|--------|--|
| 6 | 0-255 | 0-100% | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|---|-------|--------|--|

**LIGHT 2 - MODE 12 CCT+HSI 8 Bit - 6 CH**

DMX Channel 7 - 12, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 12 CCT+HSI 8 Bit - 6 CH**

DMX Channel 13 - 18, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 13 CCT+HSI 16 Bit - 12 CH**

| DMX Channel | DMX Value   | Range              | Function   |
|-------------|-------------|--------------------|--|
| 1           | 0-65535     | 0-100%             | <b>Dimmer</b><br>Closed - Open                           |
| 2           |             |                    |  |
| 3           |             |                    |  |
| 4           |             |                    |  |
| 5           | 0-5000      | 0%                 | <b>Green / Magenta</b>                                   |
|             | 5001-10000  | Full Magenta(100%) |  |
|             | 10001-29999 | Magenta(99%-1%)    |  |
| 6           | 30000-40000 | 0%                 |  |
|             | 40001-59999 | Green(1%-99%)      |  |
|             | 60000-65535 | Green(100%)        |  |
| 7           | 0-65535     | 0-100%             | <b>Crossfade</b><br>0 full CCT, 65535 full RGBWW, smooth |
| 8           |             |                    |  |
| 9           |             |                    |  |
| 10          | 0-65535     | 0-360              | <b>HUE</b><br>Formular: HUE = DMX_value *0.005493        |
| 11          |             |                    |  |
| 12          | 0-65535     | 0-100%             | <b>Saturation</b><br>Closed - Open                       |

**LIGHT 2 - MODE 13 CCT+HSI 16 Bit - 12 CH**

DMX Channel 13 - 24, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 13 CCT+HSI 16 Bit - 12 CH**

DMX Channel 25 - 36, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 14 CCT+XY 8 Bit - 6 CH**

| DMX Channel | DMX Value   | Range              | Function   |
|-------------|-------------|--------------------|--|
| 1           | 0-51        | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392   |
|             | 51-102      | 20-40%             |  |
|             | 102-153     | 40-60%             |  |
|             | 153-204     | 60-80%             |  |
|             | 204-255     | 80-100%            |  |
| 2           | 0-255       | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+DMX_value *28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
|             |             |                    |  |
| 3           | 0-20        | 0%                 | <b>Green / Magenta</b>   |
|             | 21-30       | Full Magenta(100%) |  |
|             | 31-129      | Magenta(99%-1%)    |  |
|             | 130-140     | 0%                 |  |
|             | 141-240     | Green(1%-99%)      |  |
| 241-255     | Green(100%) |                    |  |
| 4           | 0-255       | 0-100%             | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW, smooth fade  |
| 5           | 0-255       | X*255              | <b>X Coordinate</b><br>Formular: X = DMX_value /255  |

|   |       |       |   |
|---|-------|-------|---|
| 6 | 0-255 | Y*255 | <b>Y Coordinate</b><br>Formular: Y = DMX_value /255 |
|---|-------|-------|---|

**LIGHT 2 - MODE 14 CCT+XY 8 Bit - 6 CH**  
DMX Channel 7 - 12, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 14 CCT+XY 8 Bit - 6 CH**  
DMX Channel 13 - 18, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 15 CCT+XY 16 Bit - 12 CH**

| DMX Channel | DMX Value   | Range       | Function   |
|-------------|-------------|-------------|--|
| 1           | 0-65535     | 0-100%      | <b>Dimmer</b><br>Closed - Open                           |
| 2           |             |             |  |
| 3           | 0-65535     | 2700-10000K | <b>Color Temperature</b><br>Closed - Open                |
| 4           |             |             |  |
| 5           | 0-5000      | 0-100%      | <b>Green / Magenta</b>                                   |
|             | 5001-10000  | 0-100%      |  |
|             | 10001-29999 | 0-100%      |  |
| 6           | 30000-40000 | 0%          |  |
|             | 40001-59999 | 0-100%      |  |
|             | 60000-65535 | 0-100%      |  |
| 7           | 0-65535     | 0-100%      | <b>Crossfade</b><br>0 full CCT, 65535 full RGBWW, smooth |
| 8           |             |             |  |
| 9           | 0-65535     | X*65535     | <b>X Coordinate</b><br>Formular: X = DMX_value /65535    |
| 10          |             |             |  |
| 11          | 0-65535     | Y*65535     | <b>Y Coordinate</b><br>Formular: Y = DMX_value /65535    |
| 12          |             |             |  |

**LIGHT 2 - MODE 15 CCT+XY 16 Bit - 12 CH**  
DMX Channel 13 - 24, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 15 CCT+XY 16 Bit - 12 CH**  
DMX Channel 25 - 36, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 16 CCT+GEL 8 Bit - 7 CH**

| DMX Channel | DMX Value   | Range              | Function   |
|-------------|-------------|--------------------|--|
| 1           | 0-51        | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392   |
|             | 51-102      | 20-40%             |  |
|             | 102-153     | 40-60%             |  |
|             | 153-204     | 60-80%             |  |
|             | 204-255     | 80-100%            |  |
| 2           | 0-255       | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+DMX_value *28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
| 3           | 0-20        | 0%                 | <b>Green / Magenta</b>   |
|             | 21-30       | Full Magenta(100%) |  |
|             | 31-129      | Magenta(99%-1%)    |  |
|             | 130-140     | 0%                 |  |
|             | 141-240     | Green(1%-99%)      |  |
| 241-255     | Green(100%) |                    |  |
| 4           | 0-255       | 0-100%             | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW, smooth fade  |
| 5           | 0-127       | 3200K              | <b>3200K</b>   |
|             | 128-255     | 5600K              | <b>5600K</b>   |
| 6           | 0-127       | Group I            | <b>Select Group I</b>  |
|             | 128-255     | Group II           | <b>Select Group II</b>   |

|   |       |         |                               |
|---|-------|---------|-------------------------------|
| 7 | 0-121 | 1-122   | GEL Filter Number in Group I  |
|   | 0-190 | 123-313 | GEL Filter Number in Group II |

**LIGHT 2 - MODE 16 CCT+GEL 8 Bit - 7 CH**  
DMX Channel 8 - 14, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 16 CCT+GEL 8 Bit - 7 CH**  
DMX Channel 15 - 21, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 17 CCT+GEL 16 Bit - 11 CH**

| DMX Channel | DMX Value   | Range              | Function   |
|-------------|-------------|--------------------|--|
| 1           | 0-65535     | 0-100%             | <b>Dimmer</b><br>Closed - Open                           |
| 2           |             |                    |  |
| 3           |             |                    |  |
| 4           |             |                    |  |
| 5           | 0-5000      | 0%                 | <b>Green / Magenta</b>                                   |
|             | 5001-10000  | Full Magenta(100%) |  |
|             | 10001-29999 | Magenta(99%-1%)    |  |
| 6           | 30000-40000 | 0%                 |  |
|             | 40001-59999 | Green(1%-99%)      |  |
|             | 60000-65535 | Green(100%)        |  |
| 7           | 0-65535     | 0-100%             | <b>Crossfade</b><br>0 full CCT, 65535 full RGBWW, smooth |
| 8           |             |                    |  |
| 9           | 0-127       | 3200K              | <b>3200K</b>   |
|             | 128-255     | 5600K              | <b>5600K</b>   |
| 10          | 0-127       | Group I            | <b>Select Group I</b>                                    |
|             | 128-255     | Group II           | <b>Select Group II</b>                                   |
| 11          | 0-121       | 1-122              | <b>GEL Filter Number in Group I</b>                      |
|             | 0-190       | 123-313            | <b>GEL Filter Number in Group II</b>                     |

**LIGHT 2 - MODE 17 CCT+GEL 16 Bit - 11 CH**  
DMX Channel 12 - 22, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 17 CCT+GEL 16 Bit - 11 CH**  
DMX Channel 23 - 33, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 18 RGBWW+HSI 8 Bit - 9 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392     |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |
| 2           | 0-255     | 0-100%  | <b>Red</b><br>Formular: per = DMX_value *0.392                         |
| 3           | 0-255     | 0-100%  | <b>Green</b><br>Formular: per = DMX_value *0.392                       |
| 4           | 0-255     | 0-100%  | <b>Blue</b><br>Formular: per = DMX_value *0.392                        |
| 5           | 0-255     | 0-100%  | <b>Warm White</b><br>Formular: per = DMX_value *0.392                  |
| 6           | 0-255     | 0-100%  | <b>Cool White</b><br>Formular: per = DMX_value *0.392                  |
| 7           | 0-255     | 0-100%  | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW, smooth fade            |
| 8           | 0-255     | 0-360   | <b>HUE</b><br>Formular: HUE = DMX_value *1.4118                        |
| 9           | 0-255     | 0-100%  | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |

**LIGHT 2 - MODE 18 RGBWW+HSI 8 Bit - 9 CH**

DMX Channel 10 - 18, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 18 RGBWW+HSI 8 Bit - 9 CH**

DMX Channel 19 - 27, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 19 GBWW+HSI 16 Bit - 18 CH**

| DMX Channel | DMX Value | Range  | Function                             |
|-------------|-----------|--------|--------------------------------------|
| 1           | 0-65535   | 0-100% | <b>Dimmer</b>                        |
| 2           |           |        | Closed - Open                        |
| 3           | 0-65535   | 0-100% | <b>Red</b>                           |
| 4           |           |        | Formular: per = DMX_value /655.35    |
| 5           | 0-65535   | 0-100% | <b>Green</b>                         |
| 6           |           |        | Formular: per = DMX_value /655.35    |
| 7           | 0-65535   | 0-100% | <b>Blue</b>                          |
| 8           |           |        | Formular: per = DMX_value /655.35    |
| 9           | 0-65535   | 0-100% | <b>Warm White</b>                    |
| 10          |           |        | Formular: per = DMX_value /655.35    |
| 11          | 0-65535   | 0-100% | <b>Cool White</b>                    |
| 12          |           |        | Formular: per = DMX_value /655.35    |
| 13          | 0-65535   | 0-100% | <b>Crossfade</b>                     |
| 14          |           |        | 0 full CCT, 65535 full RGBWW, smooth |
| 15          | 0-65535   | 0-360  | <b>Hue</b>                           |
| 16          |           |        | Formular: per = DMX_value *0.005493  |
| 17          | 0-65535   | 0-100% | <b>Saturation</b>                    |
| 18          |           |        | Closed - Open                        |

**LIGHT 2 - MODE 19 GBWW+HSI 16 Bit - 18 CH**

DMX Channel 19 - 36, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 19 GBWW+HSI 16 Bit - 18 CH**

DMX Channel 37 - 54, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 20 RGBWW+XY 8 Bit - 9 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |
| 2           | 0-255     | 0-100%  | <b>Red</b><br>Formular: per = DMX_value *0.392                     |
| 3           | 0-255     | 0-100%  | <b>Green</b><br>Formular: per = DMX_value *0.392                   |
| 4           | 0-255     | 0-100%  | <b>Blue</b><br>Formular: per = DMX_value *0.392                    |
| 5           | 0-255     | 0-100%  | <b>Warm White</b><br>Formular: per = DMX_value *0.392              |
| 6           | 0-255     | 0-100%  | <b>Cool White</b><br>Formular: per = DMX_value *0.392              |
| 7           | 0-255     | 0-100%  | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW, smooth fade        |
| 8           | 0-255     | X*255   | <b>X Coordinate</b><br>Formular: X = DMX_value /255                |
| 9           | 0-255     | Y*255   | <b>Y Coordinate</b><br>Formular: Y = DMX_value /255                |

**LIGHT 2 - MODE 20 RGBWW+XY 8 Bit - 9 CH**

DMX Channel 10 - 18, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 20 RGBWW+XY 8 Bit - 9 CH**

DMX Channel 19 - 27, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 21 GBWW+XY 16 Bit - 18 CH**

| DMX Channel | DMX Value | Range   | Function                             |
|-------------|-----------|---------|--------------------------------------|
| 1           | 0-65535   | 0-100%  | <b>Dimmer</b>                        |
| 2           |           |         | Closed - Open                        |
| 3           | 0-65535   | 0-100%  | <b>Red</b>                           |
| 4           |           |         | Formular: per = DMX value /655.35    |
| 5           | 0-65535   | 0-100%  | <b>Green</b>                         |
| 6           |           |         | Formular: per = DMX value /655.35    |
| 7           | 0-65535   | 0-100%  | <b>Blue</b>                          |
| 8           |           |         | Formular: per = DMX value /655.35    |
| 9           | 0-65535   | 0-100%  | <b>Warm</b>                          |
| 10          |           |         | Formular: per = DMX value /655.35    |
| 11          | 0-65535   | 0-100%  | <b>Cool White</b>                    |
| 12          |           |         | Formular: per = DMX value /655.35    |
| 13          | 0-65535   | 0-100%  | <b>Crossfade</b>                     |
| 14          |           |         | 0 full CCT, 65535 full RGBWW, smooth |
| 15          | 0-65535   | X*65535 | <b>X Coordinate</b>                  |
| 16          |           |         | Formular: X = DMX value /65535       |
| 17          | 0-65535   | Y*65535 | <b>Y Coordinate</b>                  |
| 18          |           |         | Formular: Y = DMX value /655.35      |

**LIGHT 2 - MODE 21 RGBWW+XY 16 Bit - 18 CH**

DMX Channel 19 - 36, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 21 RGBWW+XY 16 Bit - 18 CH**

DMX Channel 37 - 54, the value and function is same as LIGHT 1

**LIGHT 2 - MODE 22 HSI+XY 8 Bit - 6 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392     |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |
| 2           | 0-255     | 0-360   | <b>Hue</b><br>Closed - Open<br>Formular: HUE = DMX_value *1.4118       |
| 3           | 0-255     | 0-100%  | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
| 4           | 0-255     | 0-100%  | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW, smooth fade            |
| 5           | 0-255     | X*255   | <b>X Coordinate</b><br>Formular: X = DMX_value /255                    |
| 6           | 0-255     | Y*255   | <b>Y Coordinate</b><br>Formular: Y = DMX_value /255                    |

**LIGHT 2 - MODE 22 HSI+XY 8 Bit - 6 CH**

DMX Channel 7 - 12, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 22 HSI+XY 8 Bit - 6 CH**

DMX Channel 13 - 18, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 23 HSI+XY 16 Bit - 12 CH**

| DMX Channel | DMX Value | Range   | Function                             |
|-------------|-----------|---------|--------------------------------------|
| 1           | 0-65535   | 0-100%  | <b>Dimmer</b>                        |
| 2           |           |         | Closed - Open                        |
| 3           | 0-65535   | 0-360   | <b>Hue</b>                           |
| 4           |           |         | Closed - Open                        |
| 5           | 0-65535   | 0-100%  | <b>Saturation</b>                    |
| 6           |           |         | Closed - Open                        |
| 7           | 0-65535   | 0-100%  | <b>Crossfade</b>                     |
| 8           |           |         | 0 full CCT, 65535 full RGBWW, smooth |
| 9           | 0-65535   | X*65535 | <b>X Coordinate</b>                  |

|    |         |         |                                |
|----|---------|---------|--------------------------------|
| 10 | 0-65535 | 0-65535 | Formular: X = DMX_value /65535 |
| 11 |         |         | <b>Y Coordinate</b>            |
| 12 | 0-65535 | Y*65535 | Formular: Y = DMX_value /65535 |

**LIGHT 2 - MODE 23 HSI+XY 16 Bit - 12 CH**  
DMX Channel 13 - 24, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 23 HSI+XY 16 Bit - 12 CH**  
DMX Channel 25 - 36, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 24 EFFECT - CCT Chase 7 CH**

| DMX Channel | DMX Value | Range              | Function   |
|-------------|-----------|--------------------|--|
| 1           | 0-51      | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392         |
|             | 51-102    | 20-40%             |  |
|             | 102-153   | 40-60%             |  |
|             | 153-204   | 60-80%             |  |
|             | 204-255   | 80-100%            |  |
| 2           | 000-014   |                    | <b>CCT Chase</b>   |
| 3           | 0-255     | 2700-10000K        | <b>CCT Start</b><br>Formular: Color Temperature = 2700 + DMX_value *28.627 |
| 4           | 0-255     | 2700-10000K        | <b>CCT Stop</b><br>Formular: Color Temperature = 2700 + DMX_value *28.627  |
| 5           | 0-20      | 0%                 | <b>Green / Magenta</b>   |
|             | 21-30     | Full Magenta(100%) |  |
|             | 31-129    | Magenta(99%-1%)    |  |
|             | 130-140   | 0%                 |  |
|             | 141-240   | Green(1%-99%)      |  |
|             | 241-255   | Green(100%)        |  |
| 6           | 10-19     | Loop time increase | <b>Loop time (max 600 second)</b>  |
|             | 20-29     | 60 seconds         |  |
|             | 30-39     | 120 seconds        |  |
|             | 40-49     | 180 seconds        |  |
|             | 50-59     | 240 seconds        |  |
|             | 60-69     | 300 seconds        |  |
|             | 70-79     | 360 seconds        |  |
|             | 80-89     | 420 seconds        |  |
|             | 90-99     | 480 seconds        |  |
|             |           | 540 seconds        |  |
| 7           | 0-50      | 0-50 seconds       | <b>Second/Loop</b>   |
|             | 50-100    | 50-100 seconds     |  |
|             | 100-150   | 100-150 seconds    |  |
|             | 150-200   | 150-200 seconds    |  |
|             | 200-255   | 200-255 seconds    |  |

**LIGHT 2 - MODE 24 EFFECT - CCT Chase**  
DMX Channel 8 - 14, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 24 EFFECT - CCT Chase**  
DMX Channel 15 - 21, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 24 EFFECT - Color Chase 7 CH**

| DMX Channel | DMX Value | Range  | Function   |
|-------------|-----------|--------|--|
| 1           | 0-255     | 0-100% | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
| 2           | 015-026   |        | <b>Color Chase</b>   |

|   |   |  |  |
|---|---|--|--|
| 3 | 0-42<br>42-85<br>85-127<br>127-170<br>170-212<br>212-255                      | 0°-60°<br>60°-120°<br>120°-180°<br>180°-240°<br>240°-300°<br>300°-360°   | <b>HUE Start</b><br>Formular: HUE = DMX_value *1.4118                  |
| 4 | 0-42<br>42-85<br>85-127<br>127-170<br>170-212<br>212-255                      | 0°-60°<br>60°-120°<br>120°-180°<br>180°-240°<br>240°-300°<br>300°-360°   | <b>HUE Stop</b><br>Formular: HUE = DMX_value *1.4118                   |
| 5 | 0-255   | 0%   | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
| 6 | 10-19<br>20-29<br>30-39<br>40-49<br>50-59<br>60-69<br>70-79<br>80-89<br>90-99 | Loop time increase<br>60 seconds<br>120 seconds<br>180 seconds<br>240 seconds<br>300 seconds<br>360 seconds<br>420 seconds<br>480 seconds<br>540 seconds | <b>Loop time (max 600 second)</b>                                      |
| 7 | 0-50<br>50-100<br>100-150<br>150-200<br>200-255                               | 0-50 seconds<br>50-100 seconds<br>100-150 seconds<br>150-200 seconds<br>200-255 seconds  | <b>Second/Loop</b>   |

**LIGHT 2 - MODE 24 EFFECT - Color Chase**  
DMX Channel 8 - 14, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 24 EFFECT - Color Chase**  
DMX Channel 15 - 21, the value and function is same as LIGHT 1

| <b>LIGHT 1 - MODE 24 EFFECT - Fireworks</b> |                  | <b>7 CH</b>  |  |
|---|------------------|--------------|--|
| <b>DMX Channel</b>                          | <b>DMX Value</b> | <b>Range</b> | <b>Function</b>  |
| 1   | 0-51             | 0-20%        | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392     |
|   | 51-102           | 20-40%       |  |
|   | 102-153          | 40-60%       |  |
|   | 153-204          | 60-80%       |  |
|   | 204-255          | 80-100%      |  |
| 2   | 027-039          |              | <b>Fireworks</b>   |
| 3   | 0-255            | 0-360        | <b>HUE Start</b><br>Formular: HUE = DMX_value *1.4118                  |
| 4   | 0-255            | 0-360        | <b>HUE Stop</b><br>Formular: HUE = DMX_value *1.4118                   |
| 5   | 0-255            | 0-100%       | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
| 6   | 0-255            | 0-60         | <b>Explosion/min</b><br>Formular: speed = dmx_value/4.25               |
| 7   | 0-255            | 5-95         | <b>Duration</b><br>Formular: duty = 5+DMX_value *0.353                 |

**LIGHT 2 - MODE 24 EFFECT - Fireworks**  
DMX Channel 8 - 14, the value and function is same as LIGHT 1



**LIGHT 3 - MODE 24 EFFECT - Fireworks**

DMX Channel 15 - 21, the value and function is same as LIGHT 1

| LIGHT 1 - MODE 24 |           | EFFECT - Fire |  | 4 CH |  |
|-------------------|-----------|---------------|--|------|--|
| DMX Channel       | DMX Value | Range         | Function   |      |  |
| 1                 | 0-51      | 0-20%         | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |      |  |
|                   | 51-102    | 20-40%        |  |      |  |
|                   | 102-153   | 40-60%        |  |      |  |
|                   | 153-204   | 60-80%        |  |      |  |
|                   | 204-255   | 80-100%       |  |      |  |
| 2                 | 040-052   |               | <b>Fire</b>  |      |  |
| 3                 | 0-255     | 0-100         | <b>Wind Speed</b><br>Formular: per = DMX_value *0.392              |      |  |
| 4                 | 0-49      | 0-49          | <b>Fire Type: Candle</b>   |      |  |
|                   | 50-99     | 50-99         | <b>Fire Type: Campfire</b>   |      |  |
|                   | 100-149   | 100-149       | <b>Fire Type: bonfire</b>  |      |  |

**LIGHT 2 - MODE 24 EFFECT - Fire**

DMX Channel 5 - 8, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 24 EFFECT - Fire**

DMX Channel 9 - 12, the value and function is same as LIGHT 1

| LIGHT 1 - MODE 24 |           | EFFECT - Explosion |  | 5 CH |  |
|-------------------|-----------|--------------------|--|------|--|
| DMX Channel       | DMX Value | Range              | Function   |      |  |
| 1                 | 0-51      | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |      |  |
|                   | 51-102    | 20-40%             |  |      |  |
|                   | 102-153   | 40-60%             |  |      |  |
|                   | 153-204   | 60-80%             |  |      |  |
|                   | 204-255   | 80-100%            |  |      |  |
| 2                 | 053-065   |                    | <b>Explosion</b>   |      |  |
| 3                 | 0-255     | 0-60               | <b>Explosion/min</b><br>Formular: speed = DMX_value /4.25          |      |  |
| 4                 | 0-255     | 5-95               | <b>Duration</b><br>Formular: duty = 5 + DMX_value *0.353           |      |  |
| 5                 | 0-49      | 0-49               | Fire Type: Warm  |      |  |
|                   | 50-99     | 50-99              | <b>Fire Type: Cool</b>   |      |  |
|                   | 100-149   | 100-149            | <b>Fire Type: Colors</b>   |      |  |

**LIGHT 2 - MODE 24 EFFECT - Explosion**

DMX Channel 6 - 10, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 24 EFFECT - Explosion**

DMX Channel 11 - 15, the value and function is same as LIGHT 1

| LIGHT 1 - MODE 24 |           | EFFECT - Lightning |  | 5 CH |  |
|-------------------|-----------|--------------------|--|------|--|
| DMX Channel       | DMX Value | Range              | Function   |      |  |
| 1                 | 0-51      | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392   |      |  |
|                   | 51-102    | 20-40%             |  |      |  |
|                   | 102-153   | 40-60%             |  |      |  |
|                   | 153-204   | 60-80%             |  |      |  |
|                   | 204-255   | 80-100%            |  |      |  |
| 2                 | 50--59    |                    | <b>Lightning</b>   |      |  |
| 3                 | 0-255     | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+DMX_value *28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |      |  |
|                   |           |                    | 0-20   | 0%   |  |

|   |         |                    |   |
|---|---------|--------------------|---|
| 4 | 21-30   | Full Magenta(100%) | <b>Green / Magenta</b>  |
|   | 31-129  | Magenta(99%-1%)    |   |
|   | 130-140 | 0%                 |   |
|   | 141-240 | Green(1%-99%)      |   |
|   | 241-255 | Green(100%)        |   |
| 5 | 0-255   | 1-60               | <b>Intervals (Second)</b><br>Formular: time = DMX_value /4.25 |

**LIGHT 2 - MODE 2 EFFECT - Lightning**

DMX Channel 6 - 10, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 2 EFFECT - Lightning**

DMX Channel 11 - 15, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 24 EFFECT - Paparazzi 6 CH**

| DMX Channel | DMX Value   | Range              | Function  |
|-------------|-------------|--------------------|---|
| 1           | 0-51        | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392  |
|             | 51-102      | 20-40%             |   |
|             | 102-153     | 40-60%             |   |
|             | 153-204     | 60-80%             |   |
|             | 204-255     | 80-100%            |   |
| 2           | 078-090     |                    | <b>Paparazzi</b>  |
| 3           | 0-255       | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+<br>DMX_value*28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
| 4           | 0-20        | 0%                 | <b>Green / Magenta</b>  |
|             | 21-30       | Full Magenta(100%) |   |
|             | 31-129      | Magenta(99%-1%)    |   |
|             | 130-140     | 0%                 |   |
|             | 141-240     | Green(1%-99%)      |   |
| 241-255     | Green(100%) |                    |   |
| 5           | 0-255       | 0-25Hz             | <b>Frequency</b><br>Formular: frequency = DMX_value /10.2   |
| 6           | 0-49        | 0-49               | <b>Bulb Type: Slow</b>  |
|             | 50-99       | 50-99              | <b>Bulb Type: Medium</b>  |
|             | 100-149     | 100-149            | <b>Bulb Type: Fast</b>  |
|             | 150-199     | 150-199            | <b>Bulb Type: MODE rn</b>   |

**LIGHT 2 - MODE 2 EFFECT - Paparazzi**

DMX Channel 7 - 12, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 2 EFFECT - Paparazzi**

DMX Channel 13 - 18, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 24 EFFECT - Pulse 5 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |
| 2           | 091-103   |         | <b>Pulse</b>   |
| 3           | 0-255     | 0-360   | <b>HUE</b><br>Formular: HUE = DMX_value *1.4118                    |

|   |       |        |  |
|---|-------|--------|--|
| 4 | 0-255 | 0-100% | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
| 5 | 0-255 | 1-200  | <b>Pulses/min</b><br>Formular: frequency = 1+DMX_value / 1.281         |

**LIGHT 2 - MODE 24 EFFECT - Pulse**

DMX Channel 6 - 10, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 24 EFFECT - Pulse**

DMX Channel 11 - 15, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 24 EFFECT - Police 6 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |
| 2           | 104-116   |         | <b>Police</b>  |
| 3           | 0-9       | 0-9     | <b>Colors:</b> Red, Blue & White                                   |
|             | 10--19    | 10--19  | <b>Colors:</b> Red & Blue  |
|             | 20--29    | 20--29  | <b>Colors:</b> Red & White   |
|             | 30--39    | 30--39  | <b>Colors:</b> Blue & White  |
|             | 40--49    | 40--49  | <b>Colors:</b> Blue  |
|             | 50--59    | 50--59  | <b>Colors:</b> Red   |
|             | 60--69    | 60--69  | <b>Colors:</b> Amber   |
| 4           | 0-49      | 0-49    | <b>Flash/cycle:</b> 1  |
|             | 50-99     | 50-99   | <b>Flash/cycle:</b> 2  |
|             | 100-149   | 100-149 | <b>Flash/cycle:</b> 3  |
|             | 150-199   | 150-199 | <b>Flash/cycle:</b> 4  |
| 5           | 0-255     | 0-100   | <b>Speed</b><br>Formular: per = DMX_value *0.392                   |
| 6           | 0-255     | 5-95    | <b>Duration</b><br>Formular: duty = 5+ DMX_value *0.353            |

**LIGHT 2 - MODE 24 EFFECT - Police**

DMX Channel 7 - 12, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 24 EFFECT - Police**

DMX Channel 13 - 18, the value and function is same as LIGHT 1

**LIGHT 1 - MODE 24 EFFECT - Strobe Color 6 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392     |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |
| 2           | 117-128   |         | <b>Strobe Color</b>  |
| 3           | 0-255     | 0-360   | <b>HUE</b><br>Formular: HUE = DMX_value *1.4118                        |
| 4           | 0-255     | 0-100   | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
| 5           | 0-255     | 0-25Hz  | <b>Frequency</b><br>Formular: Frequency = DMX_value /10.2              |
| 6           | 0-255     | 5-95    | <b>Duration</b><br>Formular: duty = 5+ DMX_value *0.353                |

**LIGHT 2 - MODE 24 EFFECT - Strobe Color**

DMX Channel 7 - 12, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 24 EFFECT - Strobe Color**

DMX Channel 13 - 18, the value and function is same as LIGHT 1

| LIGHT 1 - MODE 24 |           | EFFECT - Strobe CCT |  | 6 CH |  |
|-------------------|-----------|---------------------|--|------|--|
| DMX Channel       | DMX Value | Range               | Function   |      |  |
| 1                 | 0-51      | 0-20%               | <b>Dimmer</b><br>Closed - Open<br>Formular: $per = DMX\_value * 0.392$   |      |  |
|                   | 51-102    | 20-40%              |  |      |  |
|                   | 102-153   | 40-60%              |  |      |  |
|                   | 153-204   | 60-80%              |  |      |  |
|                   | 204-255   | 80-100%             |  |      |  |
| 2                 | 129-141   |                     | <b>Strobe CCT</b>  |      |  |
| 3                 | 0-255     | 2700-10000K         | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = $2700 + DMX\_value * 28.627$<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |      |  |
| 4                 | 0-20      | 0%                  | <b>Green / Magenta</b>   |      |  |
|                   | 21-30     | Full Magenta(100%)  |  |      |  |
|                   | 31-129    | Magenta(99%-1%)     |  |      |  |
|                   | 130-140   | 0%                  |  |      |  |
|                   | 141-240   | Green(1%-99%)       |  |      |  |
|                   | 241-255   | Green(100%)         |  |      |  |
| 5                 | 0-255     | 0-25Hz              | <b>Frequency</b><br>Formular: $frequency = DMX\_value / 10.2$  |      |  |
| 6                 | 0-255     | 5-95                | <b>Duration</b><br>Formular: $duty = 5 + DMX\_value * 0.353$   |      |  |

**LIGHT 2 - MODE 24 EFFECT - Strobe CCT**

DMX Channel 7 - 12, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 24 EFFECT - Strobe CCT**

DMX Channel 13 - 18, the value and function is same as LIGHT 1

| LIGHT 1 - MODE 25 |           | Macro - 2 CH |  |
|-------------------|-----------|--------------|--|
| DMX Channel       | DMX Value | Range        | Function   |
| 1                 | 0-51      | 0-20%        | <b>Dimmer</b><br>Closed - Open<br>Formular: $per = DMX\_value * 0.392$ |
|                   | 51-102    | 20-40%       |  |
|                   | 102-153   | 40-60%       |  |
|                   | 153-204   | 60-80%       |  |
|                   | 204-255   | 80-100%      |  |
| 2                 | 0-46      | 0-46         | Pls check: Appendix I Macro  |

**LIGHT 2 - MODE 25 Macro - 2 CH**

DMX Channel 3 - 4, the value and function is same as LIGHT 1

**LIGHT 3 - MODE 25 Macro - 2 CH**

DMX Channel 5 - 6, the value and function is same as LIGHT 1

**DMX Protocol Map**

Suit for Luxed-P2, Luxed Pro-P2

Appendix I

Macro

Appendix II

GEL Filter



**WALL MODE**

**MODE 1 CCT 8 Bit - 3 CH**

| DMX Channel | DMX Value | Range              | Function   |
|-------------|-----------|--------------------|--|
| 1           | 0-51      | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392   |
|             | 51-102    | 20-40%             |  |
|             | 102-153   | 40-60%             |  |
|             | 153-204   | 60-80%             |  |
|             | 204-255   | 80-100%            |  |
| 2           | 0-255     | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br><br>Formular:<br>Color Temperature = 2700+DMX_value *28.627<br><br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
|             |           |                    |  |
| 3           | 0-20      | 0                  | <b>Green / Magenta</b>   |
|             | 21-30     | Full Magenta(100%) |  |
|             | 30-130    | Magenta(99%-1%)    |  |
|             | 130-140   | 0%                 |  |
|             | 141-240   | Green(1%-99%)      |  |
|             | 241-255   | Green(100%)        |  |

**MODE 2 CCT 16 Bit - 6 CH**

| DMX Channel | DMX Value   | Range              | Function                       |
|-------------|-------------|--------------------|--------------------------------|
| 1           | 0-65535     | 0-100%             | <b>Dimmer</b><br>Closed - Open |
| 2           |             |                    |                                |
| 3           |             |                    |                                |
| 4           |             |                    |                                |
| 5           | 0-5000      | 0%                 | <b>Green / Magenta</b>         |
|             | 5001-10000  | Full Magenta(100%) |                                |
|             | 10001-29999 | Magenta (99%-1%)   |                                |
|             | 6           | 30000-40000        |                                |
| 40001-59999 |             | Green(1%-99%)      |                                |
| 60000-65535 |             | Green(100%)        |                                |

**MODE 3 HSI 8 Bit - 3 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392     |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |
| 2           | 0-255     | 0-360   | <b>Hue</b><br>Closed - Open<br>Formular: HUE = DMX_value *1.4118       |
| 3           | 0-255     | 0-100%  | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |

**MODE 4 HSI 16 Bit - 6 CH**

| DMX Channel | DMX Value | Range  | Function                       |
|-------------|-----------|--------|--------------------------------|
| 1           | 0-65535   | 0-100% | <b>Dimmer</b><br>Closed - Open |
| 2           |           |        |                                |

|   |         |        |                   |
|---|---------|--------|-------------------|
| 3 | 0-65535 | 0-360  | <b>Hue</b>        |
| 4 |         |        | Closed - Open     |
| 5 | 0-65535 | 0-100% | <b>Saturation</b> |
| 6 |         |        | Closed - Open     |

| MODE 5 XY 8 Bit - 3 CH |  |  |  |
|------------------------|--|--|--|
|------------------------|--|--|--|

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |
| 2           | 0-255     | X*255   | <b>X Coordinate</b><br>Formular: X = DMX_value /255                |
| 3           | 0-255     | Y*255   | <b>Y Coordinate</b><br>Formular: Y = DMX_value /255                |

| MODE 6 XY 16 Bit - 6 CH |  |  |  |
|-------------------------|--|--|--|
|-------------------------|--|--|--|

| DMX Channel | DMX Value | Range   | Function  |
|-------------|-----------|---------|---|
| 1           | 0-65535   | 0-100%  | <b>Dimmer</b><br>Closed - Open                        |
| 2           |           |         |   |
| 3           |           |         |   |
| 4           | 0-65535   | X*65535 | <b>X Coordinate</b><br>Formular: X = DMX_value /65535 |
| 5           | 0-65535   | Y*65535 | <b>Y Coordinate</b><br>Formular: Y = DMX_value /65535 |
| 6           |           |         |   |

| MODE 7 RGBWW 8 Bit - 6 CH |  |  |  |
|---------------------------|--|--|--|
|---------------------------|--|--|--|

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |
| 2           | 0-255     | 0-100%  | <b>Red</b><br>Formular: per = DMX_value *0.392                     |
| 3           | 0-255     | 0-100%  | <b>Green</b><br>Formular: per = DMX_value *0.392                   |
| 4           | 0-255     | 0-100%  | <b>Blue</b><br>Formular: per = DMX_value *0.392                    |
| 5           | 0-255     | 0-100%  | <b>Warm White</b><br>Formular: per = DMX_value *0.392              |
| 6           | 0-255     | 0-100%  | <b>Cool White</b><br>Formular: per = DMX_value *0.392              |

| MODE 8 RGBWW 16 Bit - 12 CH |  |  |  |
|-----------------------------|--|--|--|
|-----------------------------|--|--|--|

| DMX Channel | DMX Value | Range  | Function   |
|-------------|-----------|--------|--|
| 1           | 0-65535   | 0-100% | <b>Dimmer</b><br>Closed - Open                         |
| 2           |           |        |  |
| 3           | 0-65535   | 0-100% | <b>Red</b><br>Formular: per = DMX_value /655.35        |
| 4           |           |        |  |
| 5           | 0-65535   | 0-100% | <b>Green</b><br>Formular: per = DMX_value /655.35      |
| 6           |           |        |  |
| 7           | 0-65535   | 0-100% | <b>Blue</b><br>Formular: per = DMX_value /655.35       |
| 8           |           |        |  |
| 9           | 0-65535   | 0-100% | <b>Warm White</b><br>Formular: per = DMX_value /655.35 |
| 10          |           |        |  |
| 11          | 0-65535   | 0-100% | <b>Cool White</b><br>Formular: per = DMX_value /655.35 |
| 12          |           |        |  |

| MODE 9 GEL 8 Bit - 4 CH |  |  |  |
|-------------------------|--|--|--|
|-------------------------|--|--|--|

| DMX Channel | DMX Value | Range | Function |
|-------------|-----------|-------|----------|
|-------------|-----------|-------|----------|

|   |         |          |  |
|---|---------|----------|--|
| 1 | 0-51    | 0-20%    | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|   | 51-102  | 20-40%   |  |
|   | 102-153 | 40-60%   |  |
|   | 153-204 | 60-80%   |  |
|   | 204-255 | 80-100%  |  |
| 2 | 0-127   | 3200K    | <b>3200K</b>   |
|   | 128-255 | 5600K    | <b>5600K</b>   |
| 3 | 0-127   | Group I  | <b>Select Group I</b>  |
|   | 128-255 | Group II | <b>Select Group II</b>   |
| 4 | 0-121   | 1-122    | <b>GEL Filter Number in Group I</b>                                |
|   | 0-190   | 123-313  | <b>GEL Filter Number in Group II</b>                               |

**MODE 10 CCT+RGBWW 8 Bit - 9 CH**

| DMX Channel | DMX Value   | Range              | Function   |
|-------------|-------------|--------------------|--|
| 1           | 0-51        | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392   |
|             | 51-102      | 20-40%             |  |
|             | 102-153     | 40-60%             |  |
|             | 153-204     | 60-80%             |  |
|             | 204-255     | 80-100%            |  |
| 2           | 0-255       | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+DMX_value *28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
| 3           | 0-20        | 0%                 | <b>Green / Magenta</b>   |
|             | 21-30       | Full Magenta(100%) |  |
|             | 31-129      | Magenta (99%-1%)   |  |
|             | 130-140     | 0%                 |  |
|             | 141-240     | Green(1%-99%)      |  |
| 241-255     | Green(100%) |                    |  |
| 4           | 0-255       | 0-100%             | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW, smooth fade  |
| 5           | 0-255       | 0-100%             | <b>Red</b><br>Formular: per = DMX_value *0.392   |
| 6           | 0-255       | 0-100%             | <b>Green</b><br>Formular: per = DMX_value *0.392   |
| 7           | 0-255       | 0-100%             | <b>Blue</b><br>Formular: per = DMX_value *0.392  |
| 8           | 0-255       | 0-100%             | <b>Warm White</b><br>Formular: per = DMX_value *0.392  |
| 9           | 0-255       | 0-100%             | <b>Cool White</b><br>Formular: per = DMX_value *0.392  |

**MODE 11 CCT+RGBWW 16 Bit - 18 CH**

| DMX Channel | DMX Value   | Range              | Function   |
|-------------|-------------|--------------------|--|
| 1           | 0-65535     | 0-100%             | <b>Dimmer</b><br>Closed - Open                           |
| 2           |             |                    |  |
| 3           |             |                    |  |
| 4           |             |                    |  |
| 5           | 0-5000      | 0%                 | <b>Color Temperature</b><br>Closed - Open                |
|             | 5001-10000  | Full Magenta(100%) |  |
|             | 10001-29999 | Magenta (99%-1%)   |  |
| 6           | 30000-40000 | 0%                 | <b>Green / Magenta</b>                                   |
|             | 40001-59999 | Green(1%-99%)      |  |
|             | 60000-65535 | Green(100%)        |  |
| 7           | 0-65535     | 0-100%             | <b>Crossfade</b><br>0 full CCT, 65535 full RGBWW, smooth |
| 8           |             |                    |  |

|    |         |        |                                   |
|----|---------|--------|-----------------------------------|
| 9  | 0-65535 | 0-100% | <b>Red</b>                        |
| 10 |         |        | Formular: per = DMX value /655.35 |
| 11 | 0-65535 | 0-100% | <b>Green</b>                      |
| 12 |         |        | Formular: per = DMX value /655.35 |
| 13 | 0-65535 | 0-100% | <b>Blue</b>                       |
| 14 |         |        | Formular: per = DMX value /655.35 |
| 15 | 0-65535 | 0-100% | <b>Warm White</b>                 |
| 16 |         |        | Formular: per = DMX value /655.35 |
| 17 | 0-65535 | 0-100% | <b>Cool White</b>                 |
| 18 |         |        | Formular: per = DMX value /655.35 |

**MODE 12 CCT+HSI 8 Bit - 6 CH**

| DMX Channel | DMX Value   | Range              | Function   |
|-------------|-------------|--------------------|--|
| 1           | 0-51        | 0-20%              | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392   |
|             | 51-102      | 20-40%             |  |
|             | 102-153     | 40-60%             |  |
|             | 153-204     | 60-80%             |  |
|             | 204-255     | 80-100%            |  |
| 2           | 0-255       | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+DMX_value *28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
| 3           | 0-20        | 0%                 | <b>Green / Magenta</b>   |
|             | 21-30       | Full Magenta(100%) |  |
|             | 31-129      | Magenta (99%-1%)   |  |
|             | 130-140     | 0%                 |  |
|             | 141-240     | Green(1%-99%)      |  |
| 241-255     | Green(100%) |                    |  |
| 4           | 0-255       | 0-100%             | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW, smooth fade  |
| 5           | 0-255       | 0-360              | <b>HUE</b><br>Formular: HUE = DMX_value *1.4118  |
| 6           | 0-255       | 0-100%             | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392   |

**MODE 13 CCT+HSI 16 Bit - 12 CH**

| DMX Channel | DMX Value   | Range              | Function   |
|-------------|-------------|--------------------|--|
| 1           | 0-65535     | 0-100%             | <b>Dimmer</b><br>Closed - Open                           |
| 2           |             |                    |  |
| 3           |             |                    |  |
| 4           | 0-65535     | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open                |
| 5           |             |                    |  |
| 5           | 0-5000      | 0%                 | <b>Green / Magenta</b>                                   |
|             | 5001-10000  | Full Magenta(100%) |  |
|             | 10001-29999 | Magenta (99%-1%)   |  |
| 6           | 30000-40000 | 0%                 | <b>Green / Magenta</b>                                   |
|             | 40001-59999 | Green(1%-99%)      |  |
|             | 60000-65535 | Green(100%)        |  |
| 7           | 0-65535     | 0-100%             | <b>Crossfade</b><br>0 full CCT, 65535 full RGBWW, smooth |
| 8           |             |                    |  |
| 9           | 0-65535     | 0-360              | <b>HUE</b><br>Formular: HUE = DMX_value *0.005493        |
| 10          |             |                    |  |
| 11          |             |                    |  |
| 12          | 0-65535     | 0-100%             | <b>Saturation</b><br>Closed - Open                       |

**MODE 14 CCT+XY 8 Bit - 6 CH**

| DMX Channel | DMX Value | Range | Function |
|-------------|-----------|-------|----------|
|-------------|-----------|-------|----------|



|         |   |  |  |
|---------|---|--|--|
| 1       | 0-51<br>51-102<br>102-153<br>153-204<br>204-255 | 0-20%<br>20-40%<br>40-60%<br>60-80%<br>80-100% | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392   |
| 2       | 0-255   | 2700-10000K                                    | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+DMX_value *28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
| 3       | 0-20  | 0%   | <b>Green / Magenta</b>   |
|         | 21-30   | Full Magenta(100%)                             |  |
|         | 31-129  | Magenta (99%-1%)                               |  |
|         | 130-140   | 0%   |  |
|         | 141-240   | Green(1%-99%)                                  |  |
| 241-255 | Green(100%)                                     |  |  |
| 4       | 0-255   | 0-100%   | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW, smooth fade  |
| 5       | 0-255   | X*255  | <b>X Coordinate</b><br>Formular: X = DMX_value /255  |
| 6       | 0-255   | Y*255  | <b>Y Coordinate</b><br>Formular: Y = DMX_value /255  |

**MODE 15 CCT+XY 16 Bit - 12 CH**

| DMX Channel | DMX Value   | Range   | Function                             |
|-------------|-------------|---------|--------------------------------------|
| 1           | 0-65535     | 0-100%  | <b>Dimmer</b>                        |
| 2           |             |         | Closed - Open                        |
| 3           |             |         | <b>Color Temperature</b>             |
| 4           |             |         | Closed - Open                        |
| 5           | 0-5000      | 0-100%  | <b>Green / Magenta</b>               |
|             | 5001-10000  | 0-100%  |                                      |
|             | 10001-29999 | 0-100%  |                                      |
| 6           | 30000-40000 | 0%      |                                      |
|             | 40001-59999 | 0-100%  |                                      |
|             | 60000-65535 | 0-100%  |                                      |
| 7           | 0-65535     | 0-100%  | <b>Crossfade</b>                     |
| 8           |             |         | 0 full CCT, 65535 full RGBWW, smooth |
| 9           | 0-65535     | X*65535 | <b>X Coordinate</b>                  |
| 10          |             |         | Formular: X = DMX_value /65535       |
| 11          |             |         | <b>Y Coordinate</b>                  |
| 12          | 0-65535     | Y*65535 | Formular: Y = DMX_value /65535       |

**MODE 16 CCT+GEL 8 Bit - 7 CH**

| DMX Channel | DMX Value                                       | Range  | Function   |
|-------------|---|--|--|
| 1           | 0-51<br>51-102<br>102-153<br>153-204<br>204-255 | 0-20%<br>20-40%<br>40-60%<br>60-80%<br>80-100% | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |

|   |         |                    |   |
|---|---------|--------------------|---|
| 2 | 0-255   | 2700-10000K        | <b>Color Temperature</b><br>Closed - Open<br>Formular:<br>Color Temperature = 2700+DMX_value<br>*28.627<br>Example: 17 --> 3200K<br>101--> 5600K<br>185--> 8000K<br>255--> 10000K |
| 3 | 0-20    | 0%                 | <b>Green / Magenta</b>  |
|   | 21-30   | Full Magenta(100%) |   |
|   | 31-129  | Magenta (99%-1%)   |   |
|   | 130-140 | 0%                 |   |
|   | 141-240 | Green(1%-99%)      |   |
|   | 241-255 | Green(100%)        |   |
| 4 | 0-255   | 0-100%             | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW, smooth<br>fade  |
| 5 | 0-127   | 3200K              | <b>3200K</b>  |
|   | 128-255 | 5600K              | <b>5600K</b>  |
| 6 | 0-127   | Group I            | <b>Select Group I</b>   |
|   | 128-255 | Group II           | <b>Select Group II</b>  |
| 7 | 0-121   | 1-122              | <b>GEL Filter Number in Group I</b>   |
|   | 0-190   | 123-313            | <b>GEL Filter Number in Group II</b>  |

**MODE 17 CCT+GEL 16 Bit - 11 CH**

| DMX Channel | DMX Value   | Range              | Function   |
|-------------|-------------|--------------------|--|
| 1           | 0-65535     | 0-100%             | <b>Dimmer</b><br>Closed - Open                           |
| 2           |             |                    |  |
| 3           |             |                    |  |
| 4           |             |                    |  |
| 5           | 0-5000      | 0%                 | <b>Green / Magenta</b>                                   |
|             | 5001-10000  | Full Magenta(100%) |  |
|             | 10001-29999 | Magenta (99%-1%)   |  |
| 6           | 30000-40000 | 0%                 |  |
|             | 40001-59999 | Green(1%-99%)      |  |
|             | 60000-65535 | Green(100%)        |  |
| 7           | 0-65535     | 0-100%             | <b>Crossfade</b><br>0 full CCT, 65535 full RGBWW, smooth |
| 8           |             |                    |  |
| 9           | 0-127       | 3200K              | <b>3200K</b>   |
|             | 128-255     | 5600K              | <b>5600K</b>   |
| 10          | 0-127       | Group I            | <b>Select Group I</b>                                    |
|             | 128-255     | Group II           | <b>Select Group II</b>                                   |
| 11          | 0-121       | 1-122              | <b>GEL Filter Number in Group I</b>                      |
|             | 0-190       | 123-313            | <b>GEL Filter Number in Group II</b>                     |

**MODE 18 RGBWW+HSI 8 Bit - 9 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |
| 2           | 0-255     | 0-100%  | <b>Red</b><br>Formular: per = DMX_value *0.392                     |
| 3           | 0-255     | 0-100%  | <b>Green</b><br>Formular: per = DMX_value *0.392                   |
| 4           | 0-255     | 0-100%  | <b>Blue</b><br>Formular: per = DMX_value *0.392                    |
| 5           | 0-255     | 0-100%  | <b>Warm White</b><br>Formular: per = DMX_value *0.392              |

|   |       |        |  |
|---|-------|--------|--|
| 6 | 0-255 | 0-100% | <b>Cool White</b><br>Formular: per = DMX_value *0.392                  |
| 7 | 0-255 | 0-100% | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW, smooth fade            |
| 8 | 0-255 | 0-360  | <b>HUE</b><br>Formular: HUE = DMX_value *1.4118                        |
| 9 | 0-255 | 0-100% | <b>Saturation</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |

**MODE 19 RGBWW+HSI 16 Bit - 18 CH**

| DMX Channel | DMX Value | Range  | Function                             |
|-------------|-----------|--------|--------------------------------------|
| 1           | 0-65535   | 0-100% | <b>Dimmer</b>                        |
| 2           |           |        | Closed - Open                        |
| 3           | 0-65535   | 0-100% | <b>Red</b>                           |
| 4           |           |        | Formular: per = DMX_value /655.35    |
| 5           | 0-65535   | 0-100% | <b>Green</b>                         |
| 6           |           |        | Formular: per = DMX_value /655.35    |
| 7           | 0-65535   | 0-100% | <b>Blue</b>                          |
| 8           |           |        | Formular: per = DMX_value /655.35    |
| 9           | 0-65535   | 0-100% | <b>Warm White</b>                    |
| 10          |           |        | Formular: per = DMX_value /655.35    |
| 11          | 0-65535   | 0-100% | <b>Cool White</b>                    |
| 12          |           |        | Formular: per = DMX_value /655.35    |
| 13          | 0-65535   | 0-100% | <b>Crossfade</b>                     |
| 14          |           |        | 0 full CCT, 65535 full RGBWW, smooth |
| 15          | 0-65535   | 0-360  | <b>Hue</b>                           |
| 16          |           |        | Formular: per = DMX_value *0.005493  |
| 17          | 0-65535   | 0-100% | <b>Saturation</b>                    |
| 18          |           |        | Closed - Open                        |

**MODE 20 RGBWW+XY 8 Bit - 9 CH**

| DMX Channel | DMX Value | Range   | Function   |
|-------------|-----------|---------|--|
| 1           | 0-51      | 0-20%   | <b>Dimmer</b><br>Closed - Open<br>Formular: per = DMX_value *0.392 |
|             | 51-102    | 20-40%  |  |
|             | 102-153   | 40-60%  |  |
|             | 153-204   | 60-80%  |  |
|             | 204-255   | 80-100% |  |
| 2           | 0-255     | 0-100%  | <b>Red</b><br>Formular: per = DMX_value *0.392                     |
| 3           | 0-255     | 0-100%  | <b>Green</b><br>Formular: per = DMX_value *0.392                   |
| 4           | 0-255     | 0-100%  | <b>Blue</b><br>Formular: per = DMX_value *0.392                    |
| 5           | 0-255     | 0-100%  | <b>Warm White</b><br>Formular: per = DMX_value *0.392              |
| 6           | 0-255     | 0-100%  | <b>Cool White</b><br>Formular: per = DMX_value *0.392              |
| 7           | 0-255     | 0-100%  | <b>Crossfade</b><br>0 full CCT, 255 full RGBWW, smooth fade        |
| 8           | 0-255     | X*255   | <b>X Coordinate</b><br>Formular: X = DMX_value /255                |
| 9           | 0-255     | Y*255   | <b>Y Coordinate</b><br>Formular: Y = DMX_value /255                |

**MODE 21 RGBWW+XY 16 Bit - 18 CH**

| DMX Channel | DMX Value | Range  | Function                          |
|-------------|-----------|--------|-----------------------------------|
| 1           | 0-65535   | 0-100% | <b>Dimmer</b>                     |
| 2           |           |        | Closed - Open                     |
| 3           | 0-65535   | 0-100% | <b>Red</b>                        |
| 4           |           |        | Formular: per = DMX_value /655.35 |