lightstar®

AIRLITE RGBWW Series

User Manual

User Manual

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Lightstar Lights
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Table of Contents

Product Overview

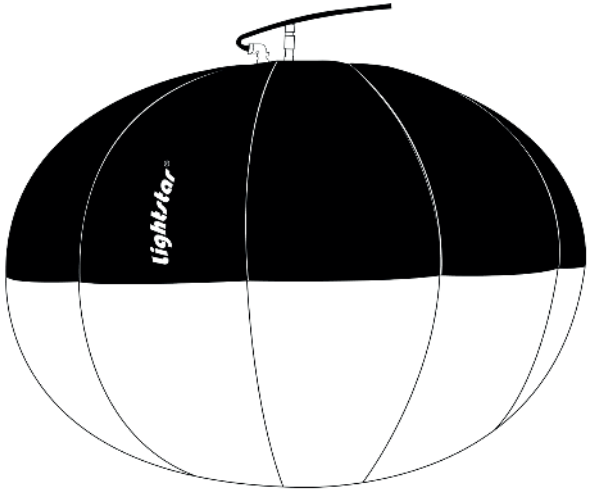
Lightstar RGB LED Airlite Balloon, uses RGBWW high quality LED's the spectral light distribution is even more continuos. Adopt the exclusive optical design, use light efficiently and improve the luminous flux output, achieve accurate color temperature, high CRI, lower consumption and highlight light.

Product Features

- 360° adjustable panchromatic hue
- high quality RGBWW LED, CRI ≥ 95
- brightness adjustable from 0 - 100%
- color temperature adjustable between 2400K and 10000K
- supports Bluetooth, APP, DMX512 protocol
- LCD software control, easy to operate
- low power consumption, low heat generation, green, energy-saving and environmental protection
- no UV output, safety, long using life, reduce the using cost
- inflate and air compensating automatically, easy to operate
- luminous flux output stays relatively stable when temperature is adjusted • DC power input (for battery operation or via mains power supply)

Technical Information - LMSA-P1000

SKU:	LMSA-P1000
Description:	RGBWW LED Airlite Balloon 1000W
Power:	1000W
Material:	different materials
Cooling:	Active Cooling
Color Temperature:	2400-10000K
Dimming:	0-100%
CRI:	
TLCI:	
AC Input (indirect):	100-240V AC
Control:	DMX In- & Output (5-Pin XLR socket), LumenRadio, App
Frequency:	
IP Class:	IP20
Diameter (inflated):	
Dimensions:	1590x440x380mm
Weight:	8'000g

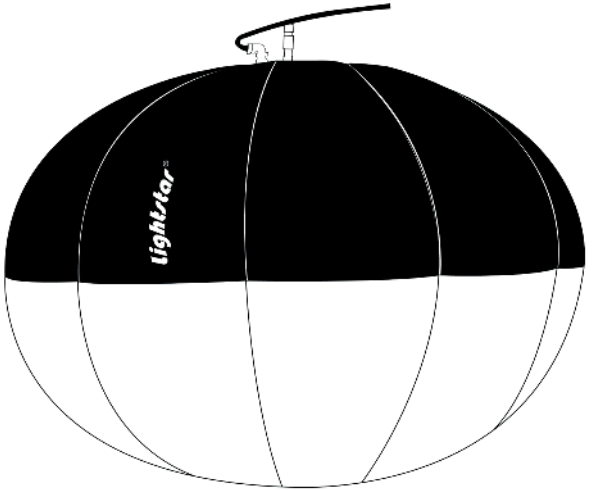


Technical Information - LMSA-P1000T

SKU:	LMSA-P1000T
Description:	RGBWW LED Airlite Tube Balloon 1000W
Power:	1000W
Material:	different materials
Cooling:	Active Cooling
Color Temperature:	2400-10000K
Dimming:	0-100%
CRI:	
TLCI:	
AC Input (indirect):	100-240V AC
Control:	DMX In- & Output (5-Pin XLR socket), LumenRadio, App
Frequency:	
IP Class:	IP20
Diameter (inflated):	
Dimensions:	1400×600×380mm
Weight:	11‘000g

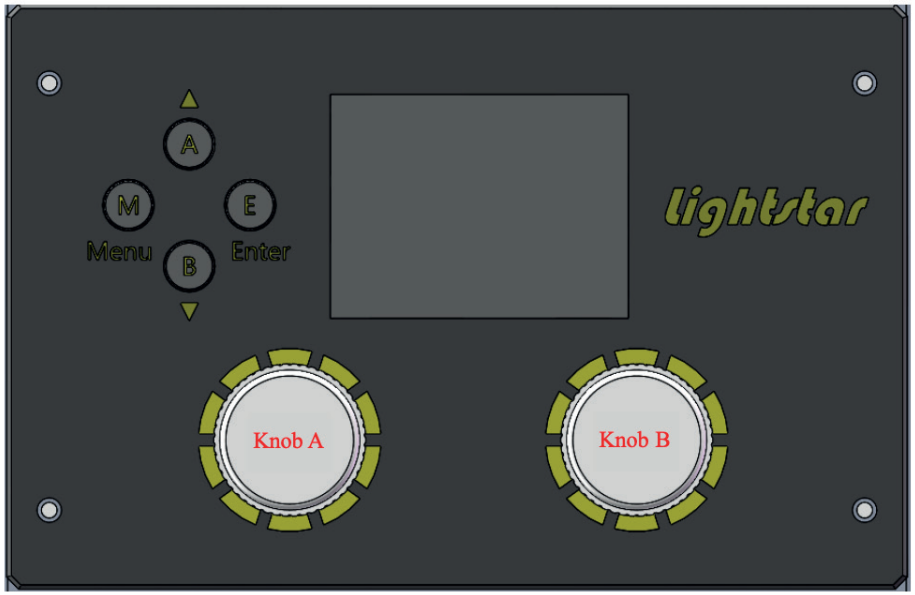
Technical Information - LMSA-P500

SKU:	LMSA-P500
Description:	RGBWW LED Airlite Balloon 500W
Power:	500W
Material:	different materials
Cooling:	Active Cooling
Color Temperature:	2400-10000K
Dimming:	0-100%
CRI:	
TLCI:	
AC Input (indirect):	100-240V AC
Control:	DMX In- & Output (5-Pin XLR socket), LumenRadio, App
Frequency:	
IP Class:	IP20
Diameter (inflated):	
Dimensions:	960×440×380mm
Weight:	6‘200g



Operational Instructions

There are three parts on the control panel: Operating keys, LCD display and the adjustment knob.
Operating buttons consist of four keys. Button M is for entering the menu and return to an upper menu level. Button A is to select up button B is for selecting down, button E is to enter. The adjusting knob A is for adjusting the values, knob b is to select menu and adjust parameters.



Power ON / Inflation

When powering on the light, the balloon inflate automatically (fan speed 100%), the diffuser is full after 150 seconds, then the Balloon power on (the fan speed can be adjust by adjusting knob), the fan speed reduced to default value 30%, enter air compensating mode, the Balloon is normal operation.

Control Modes

Intensity - Color Temperature - G/M

When powering on the light, default interface is the Inflation interface, select Button E enter CCT mode. By turning knob A the intensity can adjusted. Turn knob B for color temperature. Button A changes to Green/Magenta - adjustable with knob B.
Button B is shortcut for ON/OFF the light.

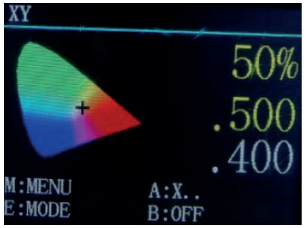
Hue - Intensity - Saturation

Select button E to enter Light mode, select HIS mode.
As before, knob A is for adjusting the intensity and knob B for Hue parameters (0o-360o). Button A changes to Saturation- adjustable with knob B. To switch between HUE and SATURATION, push button A.
Button B is shortcut for ON/OFF the light.

Color Gels

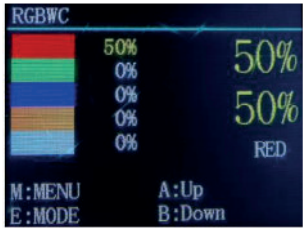
Select button E to enter Light mode, select HIS mode.
Turn knob A to adjust brightness, and knob B to select Color Gel. Select button A to change the color temperature 3200K/5600K.
Button B is shortcut for ON/OFF the light.push button A.
Button B is shortcut for ON/OFF the light.

CIE - X/Y Coordinates



Select button E to enter Light mode, select CIE mode.
Turn knob A for brightness, knob B to adjust coordinate parameters. Select button A to switch X/Y coordinates.
Button B is shortcut for ON/OFF the light

RGB



Select button E to enter Light mode, select RGB mode.
Adjust knob A to adjust brightness, adjust knob B adjust each color. Select color with button A/B.

CCT+RGB

Select button E to enter Light mode, select CCT+RGBWC mode.
Adjust knob A to adjust brightness. Select CCT, RGB and cross, adjust knob B to adjust the parameter.

CCT+HIS

Select button E to enter Light mode, select CCT+HSI mode.
Adjust knob A to adjust brightness. Select CCT, and cross with button A/B, adjust knob B to adjust the parameter.

CCT+CIE/XY

Select button E to enter Light mode, select CCT+CIE/XY mode.
Adjust knob A to adjust brightness. Select CCT, XY and cross with button A/B, adjust knob B to adjust the parameter.

CCT+GEL

Select button E to enter Light mode, select CCT+GEL mode.
Adjust knob A to adjust brightness.
lect CCT, GEL and cross with button A/B, adjust knob B to adjust the parameter.

RGB+HSI

Select button E to enter Light mode, select RGB+HSI mode.
Adjust knob A to adjust brightness. Select RGB, and cross with button A/B, adjust knob B to adjust the parameter.

RGB+XY

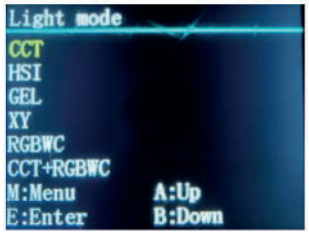
Select button E to enter Light mode, select RGB+XY mode.
Adjust knob A to adjust brightness. Select RGB, XY and cross with button A/B, adjust knob B to adjust the parameter.

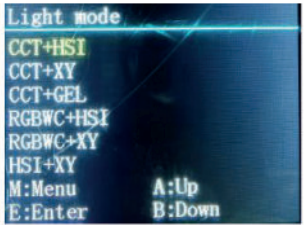
HSI+XY

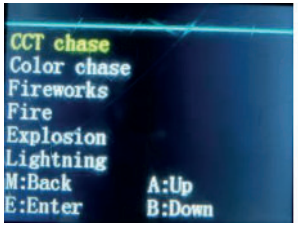
Select button E to enter Light mode, select HIS+XY mode.
Adjust knob A to adjust brightness. Select HSI, and cross with button A/B, adjust knob B to adjust the parameter.

Light Mode

Select button M, on any interface to enter the MAIN MENU. Select light mode by pushing button E. Optional modes are CCT, HUE, GEL, CIE, RGB, CCT+RGB, CCT+HIS, CCT+XY, CCT+GEL, RGB+HIS, RGB+XY, HIS+XY. There is also an effect and simulation library.
You can now browse through the menu and adjust the parameters here. But before it is necessary to select the appropriate mode you want to use.

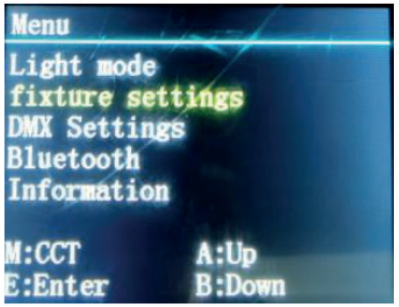


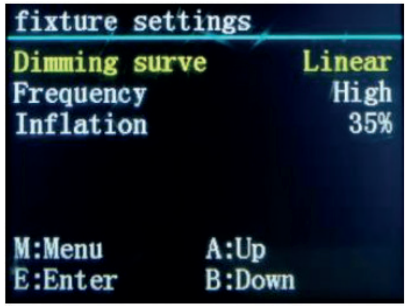




Fixture Settings

In menu, select FIXTURE SETTINGS, select button E to enter. Up/Down control with button A and E. There you can adjust the parameters Dimming curve, Frequency/Inflation speed.





DMX Control

There are two kinds of DMX signal control: Wireless DMX and DMX. By default, DMX is selected. There are 5-Pin XLR In- & Outputs on the console for DMX via cable. For wireless DMX, there is an antenna mounted on the side of the ballast.

DMX512 Data Pinout is as followed:

Pin 1 Data Link Common GND
Pin 2 Signal GND
Pin 3 Signal +
Pin 4 not used
Pin 5 not used

In menu screen, select DMX to adjust DMX settings.
Option mode, CCT, HSI, CIE, RTG, GEL, 8-Bit and 16-Bit is optional. In 8-Bit mode, one function occupies 1 channel In 16-Bit mode, one function occupies 2 channels

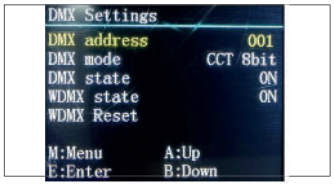


Figure 1 - DMX Setup Screen

Further adjustments are made as mentioned before.

Wireless DMX Control

Click the push button to show current ID settings. Click the push button to increase number.

1 - Red
2 - Green
3 - Yellow
4 - Blue
5 - Purple
6 - Bluish Green
7 - White

Working Status:

LED is always on	no DMX or no signal
Red LED flashing	sending
Green LED flashing	receiving

RF freqency features 126 bands, which are selected automatically to avoid interference.

The WDMX Reset is used to reset / unlink the built-in LumenRadio module.

Communication

1. Power on the transmitter and receiver
2. Press key, set same ID for transmitter and receiver. If there is more than one group of wireless LAN, make sure the ID of each network is different.
3. After sender receives DMX data, the sender will select a non-interfering frequency band. The receiver will change communication bands until the same ID data is found (green LED flashes). If DMX data communication has been established, LED will blink faster.

Notice and Maintenance

1. LED's operating temperature range must be guaranteed between - 20°C to +40°C. Overheating or undercooling can both reduce the fixtures life span.

2. The product must be placed on a solit, flat and dry surface. The surface temperature should be less than 50°C. Avoid exposure to direct sunlight and operation in an enviroment with high humidity or explosive gas.

3. Do not beat, knock or shake the light violently or it may influence the normal use of the light.

4. Do not cover lamps with paper, cloth or similar materials that could ignite due to high temperature.

5. Put the lamp in a cool and dry place when you do not use it for a long time.
6. Avoid any flammable liquid, water or metal material entering the machine. Cut off the power supply as soon as this happens.

7. Do not use machines in dirty and dusty environments and clean them regularly.

8. The technicians must get professional trainings to install, operate or repair LED's.

9. Do not machine wash or hand wash the Balloon Diffuser. If necessary, you can use a lint-free soft cloth with clean water to wipe it. Do not use chemical reagents.

10. If any equipment from Lightstar doesn't work properly, please get in contact with a Lightstar special repair department or professional technician. Do not disassemble or reassemble the parts by yourself.

Service Warranty Ordinance

Customers enjoy a one-year free warranty service as of the date of purchasing our product.

1. If the expiry date of the warranty is reached, our product can still be repaired for an according price.

2. In any of the following circumstances, the product is not repaired free of charge, whether the warranty period expires or not.
- Damage caused by misuse or abuse, disassembly and non-original parts replacement.
- Damage caused by natural disasters, unconventional voltage and environmental factors

3. Lightstar will remain in the power of interpretation.

4. Software version modification without further notice.

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