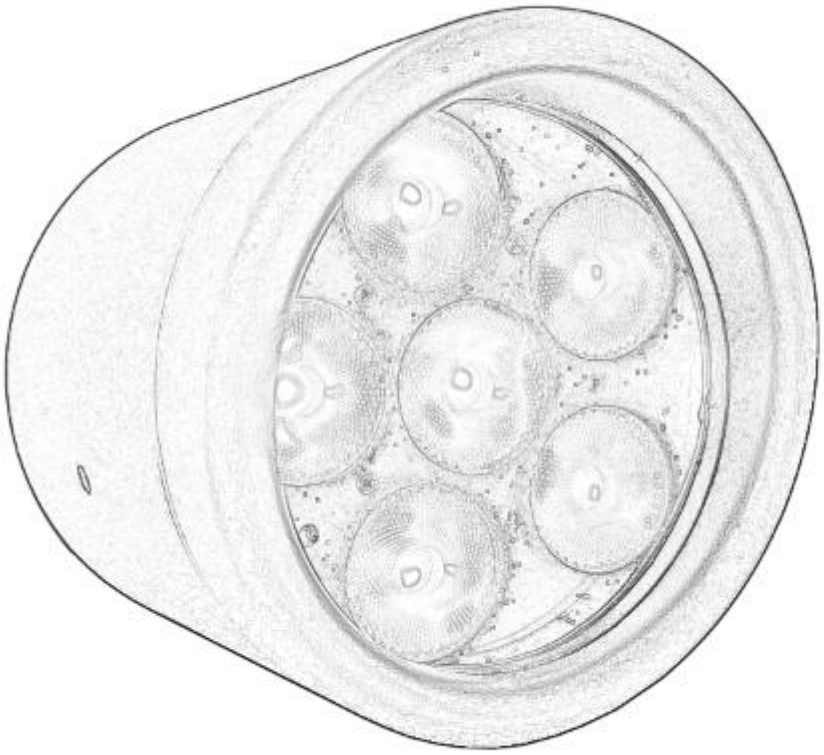
lighting PLUS

User manual



IP-LB620

Please read the instructions carefully before use

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STATEMENT

The product has well capability and intact packing when leave factory. All of the user should comply with warning item and manual, any misuse cause of the damages are not included in our guarantee, and also can not be responsible for any malfunction & problem owing to ignore the manual.

1.Safety Instructions

Please keep this User Guide for future consultation. If you sell the unit to another user, be sure that they also receive this instruction booklet.

•Unpack and check carefully there is no transportation damage before using the unit.

•Before operating, ensure that the voltage and frequency of power supply match the power requirements of the unit.

•It's important to ground the yellow/green conductor to earth in order to avoid electric shock.

•The unit is for indoor use only. Use only in a dry location.

•The unit must be installed in a location with adequate ventilation, at least 50cm from adjacent surfaces. Be sure that no ventilation slots are blocked.

•Disconnect main power before replacement or servicing.

•Make sure there are no flammable materials close to the unit while operating as it is fire hazard.

•Use safety cable when fixes this unit. DO NOT handle the unit by taking its head only, but always by taking its base.

•Maximum ambient temperature is Ta: 40℃. DO NOT operate it where the temperature is higher than this Unit surface temperature may reach up to 85℃. DO NOT touch the housing bare-hand during its operation. Turn off the power and allow about 15 minutes for the unit to cool down before replacing or serving.

•the event of serious operating problem, stop using the unit immediately.Never try to repair the unit by yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center. Always use the same type spare parts.

•DO NOT touch any wire during operation as high voltage might be causing electric shock.

Warning:

•To prevent or reduce the risk of electrical shock or fire, do not expose the unit to rain or moisture.

•The housing, the lenses, or the ultraviolet filter must be replaced if they are visibly damaged.

Caution:

•There are no user serviceable parts inside the unit. DO NOT open the housing or attempt any repairs yourself. In the unlikely event your unit may require service, please contact your nearest dealer.

Installation:

•The unit should be mounted via its screw holes on the bracket. Always ensure that the unit is firmly fixed to avoid vibration and slipping while operating. And make sure that the structure to which you are attaching the unit is secure and is able to support a weight of 10 times of the unit's weight. Also always use a safety cable that can hold 12 times of the weight of the unit when installing the fixture.

•The equipment must be fixed by professionals. And it must be fixed at a place where is out of the touch of people.

2.Technical Specifications

Voltage: AC100-240V, 50/60Hz
Light Source: 6*20W 6IN1 RGBAW UV BATTERY POWERD & WIRELESS
Lifespan: around 50,000 hours
Control: DMX 512, 2/6 /8/11 channels
Control mode: DMX 512, Auto mode, Master/Slave, Sound active
Beam angle: 25 º
Net Weight：3kg
Dimension: 155*155*174mm
Two types of light covers are optional:
①Magnetic Ball light cover; 100mm high
②Magnetic Cylindrical light cover; 175mm high
When the device is idle, please ensure that the device is fully charged, otherwise it will easily cause battery damage

3.Control Menu



[MENU] menu selection or return to previous menu.
[UP] press **[UP]** through the menu list to increase/change the value of the current function.
[DOWN] press **[DOWN]** through the menu list to decrease/change the value of the current function.
[ENTER] confirm & quit out current function setting.

1.Display panel operation instruction

Display Mode				Function Description
Address	001—512			Address code settings
Channel	2CH			2-channel mode
	6CH			6-channel mode
	8CH			8-channel mode
	11CH			10-channel mode
DMX Fail	Blackout			Control panel data blackout
	Hold			Control panel data retention
Frequency	600HZ			600 refresh rate
	1200HZ			1200 refresh rate
	2000HZ			2000 refresh rate
	4000HZ			4000 refresh rate
	12KHZ			12K refresh rate
	25KHZ			25K refresh rate
Custom	Red:0-255			Red manual dimming
	Green:0-255			Green manual dimming
	Blue:0-255			Blue manual dimming
	White:0-255			White manual dimming
	Yellow:0-255			Yellow/Amber Manual Dimming
	UV:0-255			Purple manual dimming
Program	Static	Colour:01-32		32 static color blends
		Speed:00-16		Strobe speed (when the speed is 00, it is a static color mixing)
	Auto	Speed:00-16		Color jump
	Fade	Speed:00-16		Color gradient
	Sound	Sound:01	Sens:00-99	Voice controlled color change
		Sound:02	Sens:00-99	Voice controlled mutation
		Sound:03	Sens:00-99	Voice controlled color change strobe
		Sound:04	Sens:00-99	Voice controlled color change+mutation+color change flicker
	CCT	2000K	Color temperature 2000K	
		2200K	Color temperature 2200K	
		2400K	Color temperature 2400K	
		2600K	Color temperature	

			2600K	
		2800K	Color temperature 2800K	
		3200K	Color temperature 3200K	
		3600K	Color temperature 3600K	
		4000K	Color temperature 4000K	
		4400K	Color temperature 4400K	
		4800K	Color temperature 4800K	
		5200K	Color temperature 5200K	
		5600K	Color temperature 5600K	
		6000K	Color temperature 6000K	
		6400K	Color temperature 6400K	
		6800K	Color temperature 6800K	
		7200K	Color temperature 7200K	
		7600K	Color temperature 7600K	
		8000K	Color temperature 8000K	
		8400K	Color temperature 8400K	

		8800K	Color temperature 8800K	
		9200K	Color temperature 9200K	
		9600K	Color temperature 9600K	
		10000K	Color temperature 10000K	
	WIFI	LED_XXX		WIFI mode and link address
Wireless	**DMX**（ON/OFF）			Wireless 2.4G on/off
	Group ID:1-7			7 frequency bands (red/green/yellow/blue/purple/blue/white)
Run Time	2/4/6/8 hour			Lighting fixture usage time setting
Back Light	Always on			Display normally open
	10s			Display standby for 10 seconds, screen off
	20s			Display standby for 20 seconds, screen off
	30s			Display standby for 30 seconds, screen off
IR	ON/OFF			Infrared remote control on/off
Menu Lock	ON/OFF			Key lock on/off (When locking the screen, long press the UP+DOWN key to unlock)
Factory Reset	NO/YES			System self-test reset
Curve	Led Curve 1			linear curve
	Led Curve 2			Square curve
	Led Curve 3			Logarithmic curve
	Led Curve 4			s-curve
Information	Version V10			Software version

4.DMX Channels

Channel	2CH Mode	6CH Mode	8CH Mode	11CH Mode
CH1	1-255Total dimming	1-255Red linear dimming	1-255Total dimming	1-255Total dimming
CH2	0-10 Closed light 11-20 Color temperature 2000K 21-30 Color temperature 2200K 31-40 Color temperature 2400K 41-50 Color temperature 2600K 51-60 Color temperature 2800K 61-70 Color temperature 3200K 71-80 Color temperature 3600K 81-90 Color temperature 4000K 91-100 Color temperature 4400K 101-110 Color temperature 4800K 111-120 Color temperature 5200K 121-130 Color temperature 5600K 131-140 Color temperature 6000K	1-255 Green Linear 149	0-9Closed light， 10-255 Strobe (slow to fast)	1-255 Red linear dimming

CH2	141-150 Color temperature 6400K 151-160 Color temperature 6800K 161-170 Color temperature 7200K 171-180 Color temperature 7600K 181-190 Color temperature 8000K 191-200 Color temperature 8400K 201-210 Color temperature 8800K 211-220 Color temperature 9200K 221-230 Color temperature 9600K 231-240 Color temperature 10000K 241-255 NO FUNCTION			
CH3		1-255 Blue linear dimming	1-255 Red linear dimming	1-255Green linear dimming
CH4		1-255 White linear dimming	1-255 Green linear dimming	1-255Blue linear dimming
CH5		1-255 Yellow linear dimming	1-255 Blue linear dimming	1-255White linear dimming
CH6		1-255 Purple linear dimming	1-255 White linear dimming	1-255 Yellow linear dimming
CH7			1-255 Yellow linear dimming	1-255 Purple Linear Dimming
CH8			1-255 Purple Linear Dimming	0-9 OFF light， 10-255Strobe (slow to fast)

CH9				0-10 OFF light 11-20 Color temperature 2000K 21-30 Color temperature 2200K 31-40 Color temperature 2400K 41-50 Color temperature 2600K 51-60 Color temperature 2800K 61-70 Color temperature 3200K 71-80 Color temperature 3600K 81-90 Color temperature 4000K 91-100 Color temperature 4400K 101-110 Color temperature 4800K 111-120 Color temperature 5200K 121-130 Color temperature 5600K 131-140 Color temperature 6000K 141-150 Color temperature 6400K 151-160 Color temperature 6800K 161-170 Color temperature 7200K 171-180 Color temperature 7600K 181-190 Color temperature 8000K 191-200 Color temperature 8400K 201-210 Color temperature 8800K 211-220 Color temperature 9200K 221-230 Color temperature 9600K 231-240

CH9				Color temperature 10000K 241-255 NO FUNCTION
CH10				0-9 OFF light 10-50 Static color mixing， 51-100 Jump Mode 101-150 Gradient mode 151-200 Mutation pattern 201-215 Color changing voice control 216-230 Color strobe voice control 231-245 Mutant voice control 246-255 Respiratory voice control
CH11				1-255 Speed

5.Trouble Shooting

Following are a few common problems that may occur during operation. Here are some suggestions for easy troubleshooting:

A. The unit does not work, no light and the fan does not work

1. Check the connection of power and main fuse.
2. Measure the mains voltage on the main connector.
3. Check the power on LED.

B. Not responding to DMX controller

1. DMX LED should be on. If not, check DMX connectors, cables to see if link properly.
2. If the DMX LED is on and no response to the channel, check the address settings and DMX polarity.
3. If you have intermittent DMX signal problems, check the pins on connectors or on

PCB of the unit or the previous one.

4. Try to use another DMX controller.
5. Check if the DMX cables run near or run alongside to high voltage cables that may cause damage or interference to DMX interface circuit.

C. One of the channels is not working well

1. The stepper motor might be damaged or the cable connected to the PCB is broken.
2. The motors drive IC on the PCB might be out of condition

6.Fixture Cleaning

The cleaning of internal and external optical lenses and/or mirrors must be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates: damp, smoky or particularly dirty surrounding can cause greater accumulation of dirt on the unit's optics.

Clean with soft cloth using normal glass cleaning fluid.

Always dry the parts carefully.

Clean the external optics at least every 20 days. Clean the internal optics at least every 30/60 days.