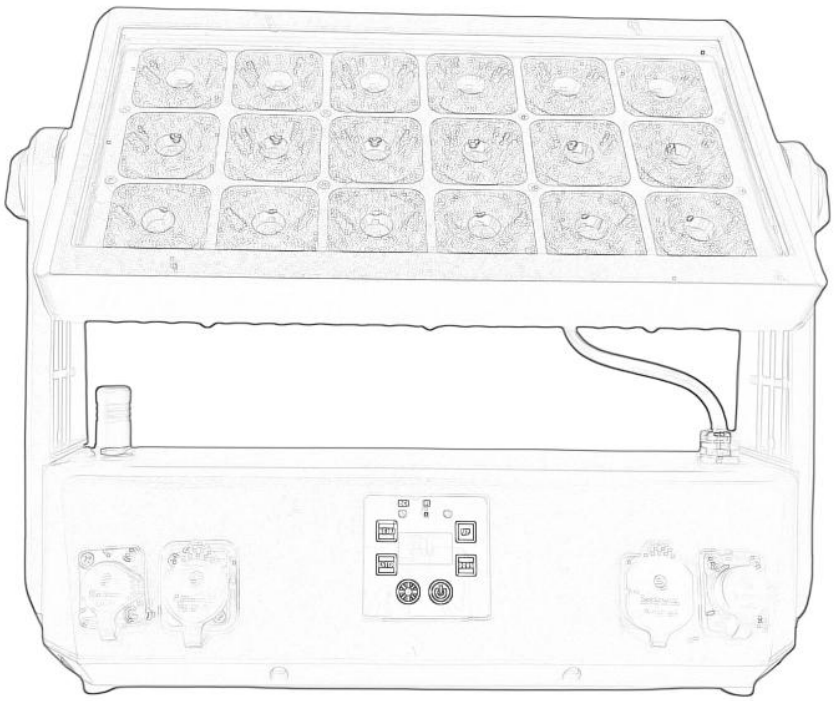
lighting PLUS

User manual



IP-B1820

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

Input voltage: AC100V-250V/50-60HZ

Light source: 18* 20W high brightness LED (6 in 1)

Shell: All aluminum body, better heat dissipation

IP rate: IP65

Display: OLED touch screen, convenient and fast, CCT menu key.

Color temperature: 2700-10000K adjustable (300K is a unit)

Channel mode:2CH/6CH/8CH/11CH

Light source lifespan: 50000 hours

Lens angle: 10 / 20

Control: DMX512, master-slave control, self-propelled, 2.4G wireless DMX512

Infrared remote control, WiFi mobile application control (supports Apple and Android)

When the device is idle, please ensure that the device is fully charged, otherwise it will easily cause battery damage

◆ Features

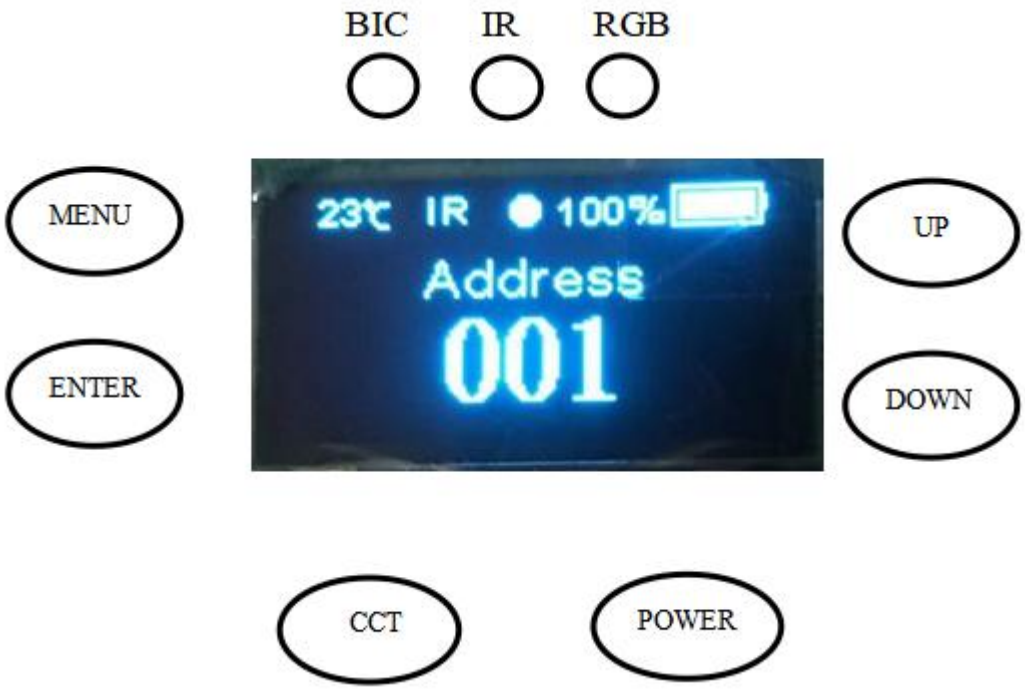
○ Self standing suspension

○ Mute

Ultra high frequency (64KHZ) dimming technology with no jitter or flicker

3.Control Menu

Display the main interface:



1.Touch panel operation instructions：

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		Console Data Blackout
	Hold		Console Data Hold
Frequency	600HZ		600 Refresh Frequency
	1200HZ		1200 Refresh Frequency
	2000HZ		2000 Refresh Frequency
	4000HZ		4000 Refresh Frequency
	12KHZ		12K Refresh Frequency
	25KHZ		25K Refresh Frequency
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
	Static	Colour:01-32	32 Types Static Color Mixing

Program		Speed:00-16		Strobe Speed (static color mixing when the speed is 00)
	Auto	Speed:00-16		Color Jump
	Fade	Speed:00-16		Color Gradient Change
	Sound	Sound:01	Sens:0 0-99	Voice controlled color change
		Sound:02	Sens:0 0-99	Voice controlled mutation
		Sound:03	Sens:0 0-99	Voice controlled color change strobe
		Sound:04	Sens:0 0-99	Voice controlled color change+mutation+color change strobe
	CCT	3000K		Color Temperature 3000K
		3500K		Color Temperature 3500K
		4500K		Color Temperature 4500K
		5500K		Color Temperature 5500K
		7500K		Color Temperature 7500K
	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/cyan/white)
Run Time	2/4/6/8 hour			Lamp usage time setting
Key Power	ON/OFF			One click on/off (MENU key for this function)
Back Light	Always on			Display Normally Open
	10s			Display standby for 10 seconds and turn off the screen
	20s			Display standby for 20 seconds and turn off the screen
	30s			Display standby for 30 seconds and turn off the screen
IR	ON/OFF			Infrared remote control on/off
Menu Lock	ON/OFF			Key lock on/off (When locking the screen, press and hold the UP+DOWN key to unlock)
Factory Reset	NO/YES			System self check reset
Curve	Led Curve 1			Linear curve
	Led Curve 2			Square curve
	Led Curve 3			Logarithmic curve
	Led Curve 4			s-curve
Information	Version V11			Software version

2.Menu Function Description：

Notes：

A. In A001 status mode, press and hold the ENTER key for 3 seconds before the program automatically enters current regulation mode. Press ENTER again to select the color (up and down keys to adjust the value), and then press Menu key to return.

B. The frequency band indicator light is red slow flashing when the host sends, and green slow flashing when the slave receives.

C.The steps for controlling mobile phone WIFI are as follows:

Step 1、Install the app for this software on your phone first
(LED LAMP Stage LED LIGHT)

Step 2、Switch the lamp display function to WIFI mode
(under menu Program WIFI mode)

Step3、Open the settings icon on your phone, open WIFI, and search for the WIFI address. The words beginning with LED will appear. For example, "LED-XXX", click on the link

Step 4、The phone returns to the Home screen, finds the APP installed on the phone, opens it, and controls it after the link is successful.

D.In the menu Wireless mode, the 7 frequency bands of wireless 2.4G can be adjusted, and the corresponding light colors of the 7 frequency bands are as follows (01 red/02 green/03 yellow/04 blue/05 light blue/06 purple/07 white)

E. During the charging process, the charging interface will appear on the display screen (if you need to use the lamp while charging, press the MENU button under the charging interface to enter the operation mode and operation mode of the lamp)

F.Over temperature protection function: (1. When the temperature reaches 50 ° 59 ° C, the program will automatically reduce the brightness by 30%; 2. When the temperature reaches 60 ° 69 ° C, the program will automatically reduce the brightness by 25%; when the temperature reaches 70 ° 79 ° C, the program will automatically reduce the brightness by 30%; when the temperature reaches 80 ° C, the program will automatically turn off the light)

G、This lamp supports wired RDM and software online upgrade functions.

3.Infrared remote control function:



1、Dimming up button
2、Dimming down key
3、OFF light off pause
4、ON operation
5、R、G、B、W、A、UV keys are 6 monochromes.
6、The 0 key is in the A001 console reception mode, and the up and down keys adjust the address
7、1-9 number keys for 9 mixed colors.
8、The AUTO key changes color, and the up and down keys adjust speed.
9、The STROBE key is a strobe, and the up and down keys adjust the speed.
10、FADE key for color gradient, up and down keys to adjust speed.
11、The SOUND key is for voice control, and the up and down keys are used to adjust the current voice control mode.

APP Guideline

4.DMX Channels

2 CH Mode

Channel	Function	DMX Value	Description
CH1	Total Dimmer	0-255	dimming from dark to bright
CH2	CTO	0-10	No function
		11-20	2000K
		21-30	2200K
		31-40	2400K
		41-50	2600K
		51-60	2800K
		61-70	3200K
		71-80	3600K
		81-90	4000K
		91-100	4400K
		101-110	4800K
		111-120	5200K
		121-130	5600K
		131-140	6000K
		141-150	6400K
		151-160	6800K
		161-170	7200K
		171-180	7600K
		181-190	8000K
		191-200	8400K
CH2	CTO	201-210	8800K
		211-220	9200K
		221-230	9600K
		231-240	10000K
		241-255	No function

6 CH Mode

Channel	Function	DMX Value	Description
CH1	R Dimmer	0-255	Red dimming from dark to bright
CH2	G Dimmer	0-255	Green dimming from dark to bright
CH3	B Dimmer	0-255	Blue dimming from dark to bright
CH4	W Dimmer	0-255	White dimming from dark to bright
CH5	A Dimmer	0-255	Amber dimming from dark to bright
CH6	UV Dimmer	0-255	UV dimming from dark to bright

8 CH Mode

Channel	Function	DMX Value	Description
CH1	Total dimmer	0-255	dimmer from dark to bright
CH2	Strobe	0-9	Close
		10-255	Strobe from slow to fast

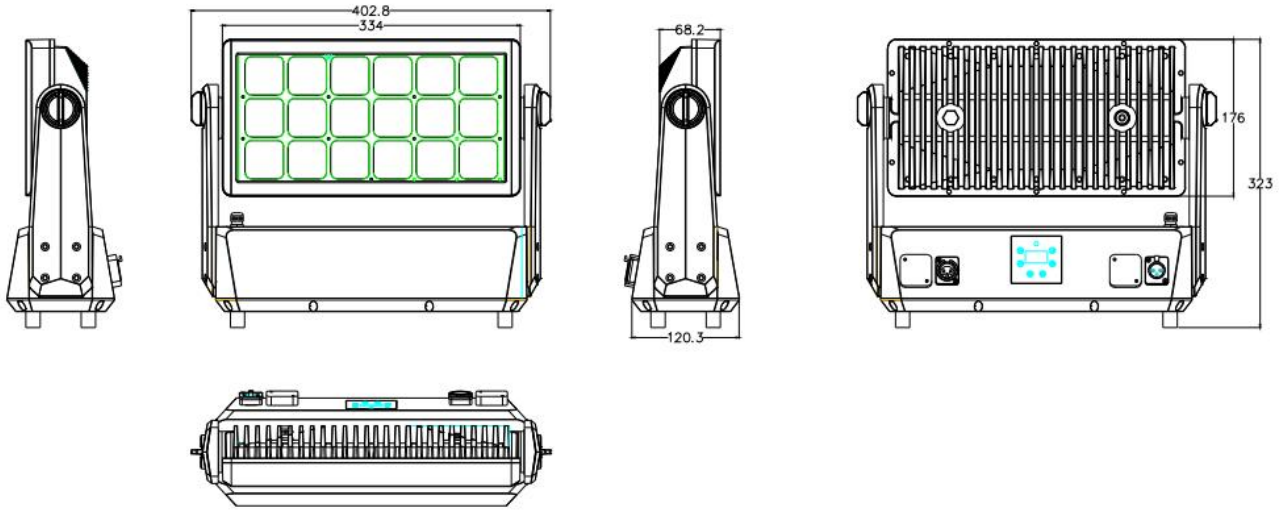
CH3	R Dimmer	0-255	Red dimming from dark to bright
CH4	G Dimmer	0-255	Green dimming from dark to bright
CH5	B Dimmer	0-255	Blue dimming from dark to bright
CH6	W Dimmer	0-255	White dimming from dark to bright
CH7	A Dimmer	0-255	Amber dimming from dark to bright
CH8	UV Dimmer	0-255	UV dimming from dark to bright

11 CH Mode

Channel	Function	DMX Value	Description
CH1	Total dimmer	0-255	General dimmer from dark to bright
CH2	R Dimmer	0-255	Red dimming from dark to bright
CH3	G Dimmer	0-255	Green dimming from dark to bright
CH4	B Dimmer	0-255	Blue dimming from dark to bright
CH5	W Dimmer	0-255	White dimming from dark to bright
CH6	A Dimmer	0-255	Amber dimming from dark to bright
CH7	UV Dimmer	0-255	UV dimming from dark to bright
CH8	Strobe	0-9	Close
		10-255	Strobe from slow to fast
CH9	CTO	0-10	No function
		11-20	2000K
		21-30	2200K
		31-40	2400K
		41-50	2600K
		51-60	2800K
		61-70	3200K
		71-80	3600K
		81-90	4000K
		91-100	4400K
		101-110	4800K
		111-120	5200K
CH9	CTO	121-130	5600K
		131-140	6000K
		141-150	6400K
		151-160	6800K
		161-170	7200K
		171-180	7600K
		181-190	8000K
		191-200	8400K
		201-210	8800K
		211-220	9200K
		221-230	9600K
		231-240	10000K
		241-255	No function
		0-8	light off
		9-50	static color mixing
		51-100	jumping mode

CH10	Function	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	Breathing voice control
CH11	Speed	0-255	Speed from slow to fast

5 .Dimension



6.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

7.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.