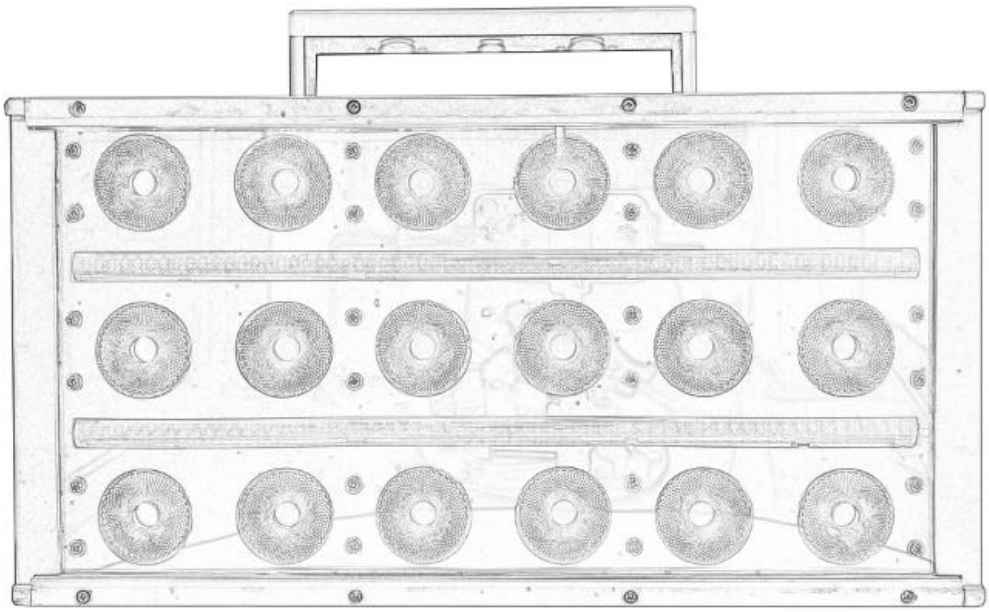
lighting PLUS

User manual



IP-WS1820

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

Light Sources: 128×3W Cold White +18×20W RGBL

Power Consumption: 550W

Strobe power:1100W

Power Input: 100-240V, 50/60Hz

Beam range:40°

Spot angle:114°

Display: LCD display

IP level: IP65

LED Lifespan: 50000 hours

Operating mode: DMX512,Auto, Sound active, Master/slave

Channel mode: 5/15/49/103/88 CH

Dimmer:0-100% linear dimming

Dimming mode: 5 types

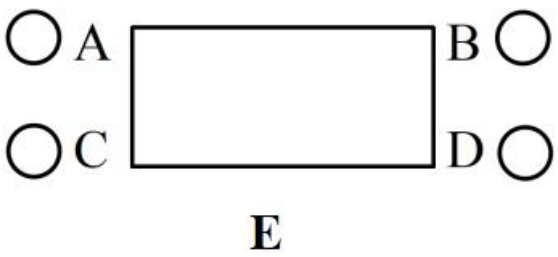
Dimming curve: 4 types

Strobe: 1-20Hz/s

Dimension：408 × 274 × 162 mm

NW：11.4KG

3.Control Menu



A. Menu key
B. Add key
C. Down key
D. Enter key
E. LED Window

Menu Description

Main menu	Secondary menu	Third menu	Default value
DMX	Address	Address 001	001
	CH	5CH/15CH/49CH/103CH /88CH	5CH
	Signal status	Keep/clear	clear
Photo effect	Manual dim	R:000-255	R:255
		G:000-255	G:255
		B:000-255	B:255
		Y:000-255	Y:255
		W:000-255	W:255
		Dimmer:000-100	Dimmer:100
		Strobe:000-100	Strobe:0
	Macro	RGBY mode 0-39	0
		Speed 0--100%	90%
		W mode 0-21	0
		Speed 0--100%	90%
		Dim 0--100%	100%
		W MIC 1--2	1
		RGBY MIC 1--2	1
		SENS 0--100%	100%
Setting	Master	ON/OFF	default:ON After the data sending end of the switch host is turned off, it will not send data to the slave
	Slave	ON/OFF	default:ON After the data receiving end of the switch slave is turned off, the slave is no longer receiving data
	Dim Curves	Line	Line
		Square	
		Return	
		S line	

Setting	CN	CN English	EN
	Screen saver	ON/OFF	default:ON After 30 seconds of back lighting on the display screen, it enters the screen and remains lit after turning off
	LOCK	ON/OFF	default:ON Lock code： MENU-UP-DOWN-ENTER
	Rotation	YES/No	No
	Fans mode	Control	default:Control Attention: In case of temperature control short circuit or open circuit, the fan is only controlled by the light, that is, the fan starts when the light is turned on, and stops after 20 seconds of turning off the light; Under normal temperature control, the fan will start when the temperature is above 44 degrees Celsius, and stop when the temperature is below 40 degrees Celsius.
		Long Turn	
	Restore	YES/No	default:No Restoring factory settings (current value) and (total power limit) will not be restored
	VERSION:RSL231201E5 V1		
Root	Enter password	（Adding keys is↑） （The minus key is↓）	↑↓↑↓
	R current	020--255	235
	G current	020--255	235
	B current	020--255	235
	Y current	020--255	235
	W current	020--255	235
	Temp	40--80	default:55 Attention to setting the temperature value of the lamp body: The lamp body needs to be connected to a temperature control resistor before this function can take effect
	Power	050--255	255

root	Push	YES/No	default:No Host pushes to slave for updating slave parameters Attention: The signal line between the host and the slave is connected and powered on. The slave is set to DMX512 mode. After the host enters this option, the host should not be in a hurry to exit and wait for the slave light to flash to indicate that the slave update is successful. At this time, the host can exit.

4.DMX Channels

5 Channel

Channel	Value	Function	illustrate
Channel 1	000-255	R dimming	R dimming, linear dimming, from dark to bright
Channel 2	000-255	G dimming	G dimming, linear dimming, from dark to bright
Channel 3	000-255	B dimming	B dimming, linear dimming, from dark to bright
Channel 4	000-255	Y dimming	Y dimming, linear dimming, from dark to bright
Channel 5	000-255	W dimming	W dimming, linear dimming, from dark to bright

15 Channel

Channel	Value	Function	illustrate
Channel 1	000-255	Total dimming	Total dimming, linear dimming, from dark to bright
Channel 2	000-255	RGBY strobe	RGBY Strobe, from slow to fast 000-005: NULL 006-255:Normal strobe
Channel 3	000-255	RGBY macro function selection	0--5: null； 6--11: hop 12--17: Gradient 18--23: Pulse transformation 24--29:effect 1 30--35:effect 2 ..... 228-255:Voice control1 - 5
Channel 4	000-255	RGBY Functional speed	Function speed, from slow to fast
Channel 5	000-255	RGBY Background	(0--45:0) (46--75:R) (76--105:G) (106--135:B) (136--165:Y)

			(166--195:RY) (196--225:RB) (226--255:RGBY)
Channel 6	000-255	RGBY Background color tone light	Dimming, linear dimming, from dark to bright
Channel 7	000-255	R Dimming	R Dimming, linear dimming, from dark to bright
Channel 8	000-255	G Dimming	G Dimming, linear dimming, from dark to bright
Channel 9	000-255	B Dimming	B Dimming, linear dimming, from dark to bright
Channel 10	000-255	Y Dimming	Y Dimming, linear dimming, from dark to bright
Channel 11	000-255	W Strobing	W strobe, from slow to fast 000-005:null 006-255:Normal strobe
Channel 12	000-255	W Macro function selection	0--5:null； 6--15: effect 1 16--25:effect 2 ..... 206--255: Voice control 1-5
Channel 13	000-255	W Functional speed	Function speed, from slow to fast
Channel 14	000-255	W dimming	W dimming, linear dimming, from dark to bright
Channel 15	000-255	Synchronize RGBYW	Used to refresh RGBYW effects and flicker

49 Channel

Channel	Value	Function	illustrate
Channel 1	000-255	Total dimming	Total dimming, linear dimming, from dark to bright
Channel 2	000-255	RGBY strobe	RGBY Strobe, from slow to fast 000-005: NULL 006-255:Normal strobe
Channel 3	000-255	RGBY macro function selection	0--5: null； 6--11: hop 12--17: Gradient 18--23: Pulse transformation 24--29:effect 1 30--35:effect 2 ..... 228-255:Voice control1 - 5
Channel 4	000-255	Total dimming	Function speed, from slow to fast
Channel 5	000-255	RGBY Background	(0--45:0) (46--75:R) (76--105:G) (106--135:B) (136--165:Y) (166--195:RY) (196--225:RB) (226--255:RGBY)
Channel 6	000-255	RGBY	Dimming, linear dimming, from dark to bright

		Background color tone light	
Channel 7	000-255	R Dimming	R Dimming, linear dimming, from dark to bright
Channel 8	000-255	G Dimming	G Dimming, linear dimming, from dark to bright
Channel 9	000-255	B Dimming	B Dimming, linear dimming, from dark to bright
Channel 10	000-255	Y Dimming	Y Dimming, linear dimming, from dark to bright
Channel 11	000-255	W Strobing	W strobe, from slow to fast 000-005:null 006-255:Normal strobe
Channel 12	000-255	W Macro function selection	0--5:null； 6--15: effect 1 16--25:effect 2 ..... 206--255: Voice control 1-5
Channel 13	000-255	W Functional speed	Function speed, from slow to fast
Channel 14	000-255	W dimming	W dimming, linear dimming, from dark to bright
Channel 15	000-255	Synchronize RGBYW	Used to refresh RGBYW effects and flicker
Channel 16	000-255	R1G1B1Y1 dimming	R1G1B1Y1 Dimming, linear dimming, from dark to bright (0--45:0)(46--75:R)(76--105:G) (106--135:B) (136--165:Y) (166--195:RY) (196--225:RB) (226--255:RGBY)
.....	.....	.....	.....
Channel 33	000-255	R18G18B18Y18 dimming	R18G18B18Y18 Dimming, linear dimming, from dark to bright (0--45:0) (46--75:R) (76--105:G) (106--135:B) (136--165:Y) (166--195:RY) (196--225:RB) (226--255:RGBY)
Channel 34	000-255	W1 dimming	W1 Dimming, linear dimming, from dark to bright
.....	.....	.....	.....
Channel 49	000-255	W16 dimming	W16 Dimming, linear dimming, from dark to bright

103 Channel

Channel	Value	Function	illustrate
Channel 1	000-255	Total dimming	Total dimming, linear dimming, from dark to bright
Channel 2	000-255	RGBY strobe	RGBY Strobe, from slow to fast 000-005: NULL 006-255:Normal strobe
Channel 3	000-255	RGBY macro function selection	0--5: null； 6--11: hop 12--17: Gradient 18--23: Pulse transformation 24--29:effect 1 30--35:effect 2 ..... 228-255:Voice control1 - 5
Channel 4	000-255	Total dimming	Function speed, from slow to fast
Channel 5	000-255	RGBY Background	(0--45:0) (46--75:R) (76--105:G) (106--135:B) (136--165:Y) (166--195:RY) (196--225:RB) (226--255:RGBY)
Channel 6	000-255	RGBY Background color tone light	Dimming, linear dimming, from dark to bright
Channel 7	000-255	R Dimming	R Dimming, linear dimming, from dark to bright
Channel 8	000-255	G Dimming	G Dimming, linear dimming, from dark to bright
Channel 9	000-255	B Dimming	B Dimming, linear dimming, from dark to bright
Channel 10	000-255	Y Dimming	Y Dimming, linear dimming, from dark to bright
Channel 11	000-255	W Strobing	W strobe, from slow to fast 000-005:null 006-255:Normal strobe
Channel 12	000-255	W Macro function selection	0--5:null； 6--15: effect 1 16--25:effect 2 ..... 206--255: Voice control 1-5
Channel 13	000-255	W Functional speed	Function speed, from slow to fast
Channel 14	000-255	W dimming	W dimming, linear dimming, from dark to bright
Channel 15	000-255	Synchronize RGBYW	Used to refresh RGBYW effects and flicker

Channel 16	000-255	R1 Dimming	R1 Dimming, linear dimming, from dark to bright
Channel 17	000-255	G1 Dimming	G1 Dimming, linear dimming, from dark to bright
Channel 18	000-255	B1 Dimming	B1 Dimming, linear dimming, from dark to bright
Channel 19	000-255	Y1 Dimming	Y1 Dimming, linear dimming, from dark to bright
.....	.....	.....	.....
Channel 86	000-255	B18 Dimming	B18 Dimming, linear dimming, from dark to bright
Channel 87	000-255	Y18 Dimming	Y18 Dimming, linear dimming, from dark to bright
Channel 88	000-255	W1 Dimming	W1 Dimming, linear dimming, from dark to bright
.....	.....	.....	.....
Channel 103	000-255	W16 Dimming	W16 Dimming, linear dimming, from dark to bright

88 Channel

Channel	Value	Function	illustrate
Channel 1	000-255	R1 Dimming	R1 Dimming, linear dimming, from dark to bright
Channel 2	000-255	G1 Dimming	G1 Dimming, linear dimming, from dark to bright
Channel 3	000-255	B1 Dimming	B1 Dimming, linear dimming, from dark to bright
Channel 4	000-255	Y1 Dimming	Y1 Dimming, linear dimming, from dark to bright
.....	.....	.....	.....
Channel 71	000-255	B18 Dimming	B18 Dimming, linear dimming, from dark to bright
Channel 72	000-255	Y18 Dimming	Y18 Dimming, linear dimming, from dark to bright
Channel 73	000-255	W1 Dimming	W1 Dimming, linear dimming, from dark to bright
.....	.....	.....	.....
Channel 88	000-255	W16 Dimming	W16 Dimming, linear dimming, from dark to bright

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.