



User Manual: Squareled Hi-Precision 500W RGBAL Zoom

**SquareLED
Hi-Precision
500 W RGBAL Zoom**



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1 TECHNICAL PARAMETERS

1.1 Electrical Parameters

Input Voltage: 100-240AC 50/60HZ

Power Consumption: \leq 350W

Control Mode: DMX512/Master/Slave

Control Channel: 3/5 channels

DMX input/output interface:XLR 3/5PIN

Power port: Aviation head

1.2 Mechanical and physical parameters

Light Source: 500W COB

Color (Light source): RGBAL

Beam Angel: 5° 、 10° 、 14° 、 19° 、 26° 、 36° 、 50° option
15° -30° Zoom

Dimmer: 0-100%

Strobe: 0-20Hz

1.3 Mechanical and physical parameters

Case Material: Die-casting aluminum/aluminum/Plastic

Protection Grade: IP22

Working Temperature: -20~40° C

Noise: $<$ 36db

Net Weight: 11.5KG

Dimmension: 1187*361*560mm (5°)

887*296*525mm (10°)

837*285*525mm (14°)

768*285*525mm (19° 、 26° 、 36° 、 50°)

2 Illumination Chart

暂无

3 Safety Warning

Notice:

- Professional technical people required to install and maintain this equipment.
 - This equipment has passed strict inspection before delivery.
 - Users have to obey the safety and notice guide.
 - The manufacturer will not responsible for any not according to the instruction normal operation and without permission
- Since the change of equipment and damages caused by any accident.

Important Notice:

- Make sure the power supply within the standard data range
- The fixture's power supply connection line cannot connect to any other fixtures.
- The fixture's DMX512 signal line cannot connect to any other DMX512 signal line.
- Make sure the fixture is appropriately earthed before use this fixture safely.
- Yellow-green line is earthed line, select the eligible power socket to make sure the safety and operation; Or cut off the plug and connect the switch directly.

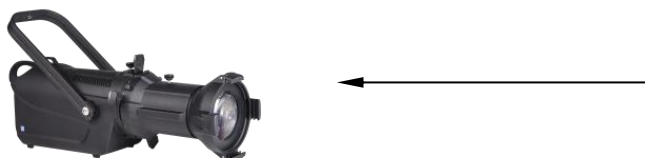
● To avoid the hard collision when installation, using or moving the fixture.

4.4 Installation

4.1 Installation and Method

Horizontal place:

▲ Hanging handle can adjust Angle , in order to install the right lamp bracket , as shown in the figure below.



Hanging handle

Hanging place:

Notice: ensure the installation position is completely suitable for this product ,to ensure safe and reliable installation location .

▲ Use and install the equipment , must be far away from flammable items, to ensure to keep a distance of 0.3 meters and flammable materials .

▲ Use the right tools to fix the lighting equipment in the proper installation location ;

▲ Device of install lamps must be able to withstand the weight of more than ten times of lamps itself, and ensure the suspension location with no obvious deformation within an hour ;

▲ Use rope to hang the lamps , the rope used must be able to sustain the weight of more than ten times of lamps itself. And insure rope must with safety clasp . Approach is to build the insurance rope around fixtures are handle or other fixed objects , after the insurance rope end plug tight buckle and the screw , as shown in the figure below.

Safety rope round the back handle



4.2 Power connection

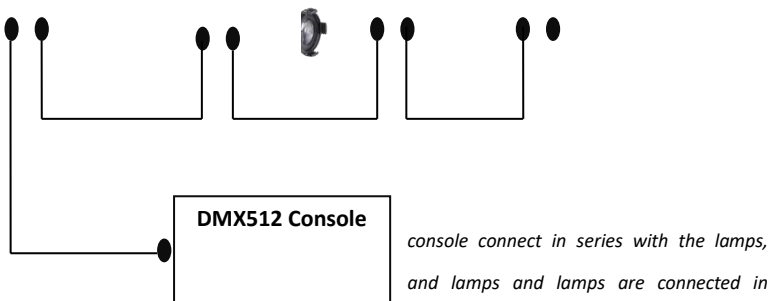
- Power cable use 2.5 mm² copper core. Power in series, the 220V AC power is no more than 8 lamp, Using a 110V AC power can't more than 4 lamps;
- DMX512 signal cable connect 20pcs fixtures Max; When the distance between console and fixture, or distance between two fixtures, longer than 50M then add a signal amplifier is very necessary.
- Recommend to plug a terminal in signal output socket of the last fixture, which connected in the end of each signal transmission line. To weld a 120Ω / 1W resistor between the male plug 2 and 3 feet to make a terminal plug. The usage is to reduce the reflected wave interference caused by the end of control signal cable's circuit open.

4.3 DMX512 Console Connect

- ◇ Serial connect the DMX512 console and signal cable.
- ◇ DMX512 address code is reusable.
- ◇ DMX512 address code can be any number between 001 to 512.

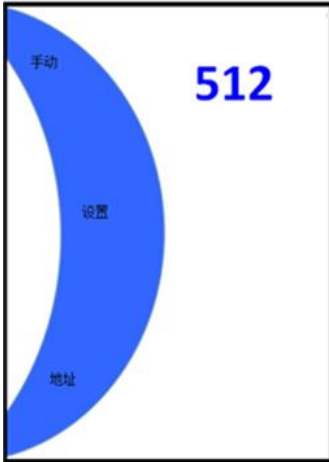
DMX Addr1

DMX Addr8



5 Operation

5.1 Display Window



- ENTER : Go to the next level of function submenu and save or confirm set the function data value.
- UP : Select the function submenu and cycle through the data values.
- DOWN : Select the function submenu and cycle through the data values.
- MENU : Go back to the previous menu or switch to the main menu.

5.2 Menu setting

Hand Ctrl	Hue	0-255
	Hue Fine	0-255
	Saturation	0-255

	Dimmer	0-255
	CCT	0-255
	Ctrl onff	No/off
	Red Color	0-255
	Green Color	0-255
	Blue Color	0-255
	Amber Color	0-255
	Lime Color	0-255
	Strobe	0-20
	Dimmer Mode	1-10
	Dimmer Curve	1/2/3
	Fan Control	1/2
	Set Freq	1/2
Set	Mode	DMX / M/S
	Channels	EX/RE/ST
	Main Program	NO/P1/P2/P3
	Language	CH/En
	Invert Screen	On/Off
	DMX Hold ONON	On/Off
	Calibrator	
Addr	Addr	1-512
Info		

- ◇ Press [ENTER] in the [CTRL] menu to enter the manual setting;
- ◇ You can press the [ENTER] key to cycle through the brightness [DIM], color temperature [CCT], focus [ZOOM], and press [UP]/[DOWN] to adjust and set the relevant data.
- ◇ Press [MENU] to return to the main menu and save it automatically;
- ◇ [CTRL] Each submenu option corresponds to 7 DMX512

channels;

◇ It should be noted that [CTRL] is only valid when the luminaire has no

DMX signal input.

6 DMX512 Control channel chart

		Value	Function	
Reduced	Standard			
	1		Hue	
		0-255	HUE 0 to 100%	Hue 0~100%
	2		H fine	
		0-255	Hue_fine	Hue Fine
	3		Saturation:	
		0-255	Focus adjustment	Amplifier from big to small
	4		Dimmer intensity :	
		0-255	0-255	Dim speed from slow to fast
	5		CCT:	

		0-255	0-255	Dim speed from slow to fast
	6		<u>Ctrl onff:</u>	
		0-1	HSIC MODE	HSIC Control mode
		1-255	monochromatic MODE	Single color control mode
	7		<u>Red Color:</u>	
		0-255	Red 0 to 100%	Red 0~100%
	8		<u>Green Color:</u>	
		0-255	Green 0 to 100%	Green 0~100%
	9		<u>Blue Color:</u>	
		0-255	<u>Blue</u> 0 to 100%	Blue 0~100%
	10		<u>Amber Color:</u>	
		0-255	Amber 0 to 100%	Amber 0~100%
	11		<u>Lime Color:</u>	
		0-255	Lime 0 to 100%	Line 0~100%
	12		<u>Strobe:</u>	
		0-5	0Hz	
		5-255	1-20Hz	Strobe from slow to fast
	13		<u>Dimmer mode:</u>	
			0-255	Dim speed from slow to fast
			<u>Dimmer Curve:</u>	
		000-005	None Function	

	14	006-064	Linear Dimmer Curve	
		065-128	Square Dimmer Curve	
		129-192	I-Square Dimmer Curve	
		193-255	S-Shape Dimmer Curve	
		0-255	255 continuous above3s	System reset
	15		Fan Control:	
		0-127	Temperature control mode	Temperature control speed mode
		128-191		Manual mode
		192-255	Hight speed mode	Full speed mode
	16		Set Freq:	
		0-80	500Hz	Dim frequency 500Hz
		81-160	2000Hz	Dimfrequency 2000Hz
		161-240	8000Hz	Dim frequency 8000Hz
		240-255	17600Hz	Dim frequency 17600Hz

7. Configuration Instructions

Power cable 1pcs
Signal cable 1pcs
Safety rope 1pcs
Manual 1pcs

Warranty card 1pcs

Barndoor (standard)

European standard power cord(Optional)

American standard power cord(Optional)



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