



User Manual: Squareled Hi-Precision 300W Dualcolor

USER MANUAL

SquareLED
Hi-Precision 300W LED Profile
DUALCOLOR

CONTENT

1	TECHNICALPARAMETERS	1
1.1	ELECTRICAL PARAMETERS.....	1
1.2	OPTICAL PARAMETERS.....	1
1.3	MECHANICAL AND PHYSICAL PARAMETERS	1
2	ILLUMINATIONCHART	2
3	SAFETYWARNING	3
4	INSTALLATION	3
4.1	DEVICE.....	3
4.2	CONNECTION OF POWER SUPPLY	5
4.3	SETTINGS AND CONNECT OF DMX512 CONSOLE	5
5	OPERATION	6
5.1	DISPLAY INTERFACE	7
5.2	MENU	7
5.3	DMX512 ADDR SETTING.....	7
5.4	LIGHT SETTINGS	8
6	DMX512CONTROLCHANNELCHART.....	8

1 TECHNICALPARAMETERS

1.1 ElectricalParameters

Input Voltage : 100-240AC 50/60HZ
Power Consumption : 320W
Control Signal : DMX512
Control Channel : 3 channels
DMX input/output interface:XLR 3/5PIN
Power port : Aviation head
Ethernet interface : Optional
Display window : 2.4inch colorfull LCD display

1.2Opticalparameters

Light source : 300W COB Light
Color(Light source): White
Color Temperature : 2800K~6500K adjustable
Color Rendering Index : ≥ 90
Beam Angle : 5°、10°、14°、19°、26°、36°、50°optional
15°-30°adjustable
Luminum : 13000LM
Dimmer : 0-100%
Strobe : 0-20Hz

1.3Mechanicalandphysicalparameters

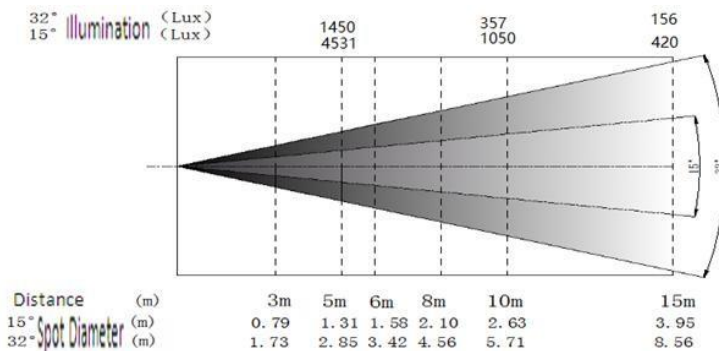
Case Material : Die-casting aluminum/aluminum/Plastic
Protection Grade : IP22
Working Temperature : -20~40°C Noise
: < 36db
Net Weight : 11.5KG
Dimmension : 1187*361*560mm (5°)

887*296*525mm (10°)

837*285*525mm (14°)

768*285*525mm (19°、26°、36°、50°)

2 IlluminationChart



3 SafetyWarning

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.

ImportantNotice :

- 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 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.



Horizontalplace:

▲ Lens install as shown in the figure below :

1、 Arrow and knob aligned in a straight line;

Arrow and knob aligned in a straight line



2、 Put lens cone to the box and rotate clockwise ;

Clockwise rotation



3. Clockwise to stop after the knob on the lens cone and keep in the same line, and makes the knob body



fasten.

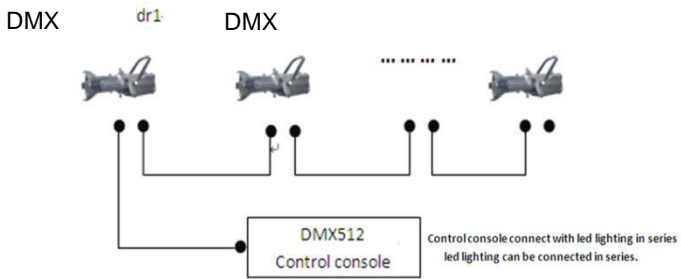
4.2 Powerconnection

- 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 DMX512ConsoleConnect

- ◇ Serial connect the DMX512 console and signal cable.
- ◇ DMX512 address code is reusable.

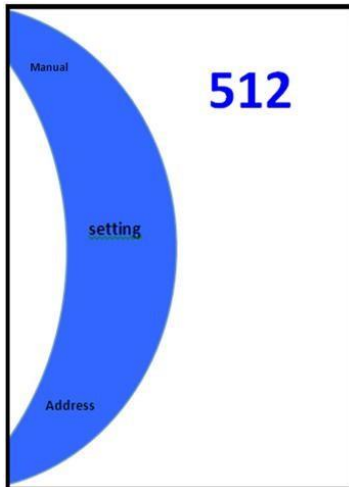
- ◇ DMX512 address code can be any number between 001 to 512.



Scoble, W. J.
 , Scoble, W. J.

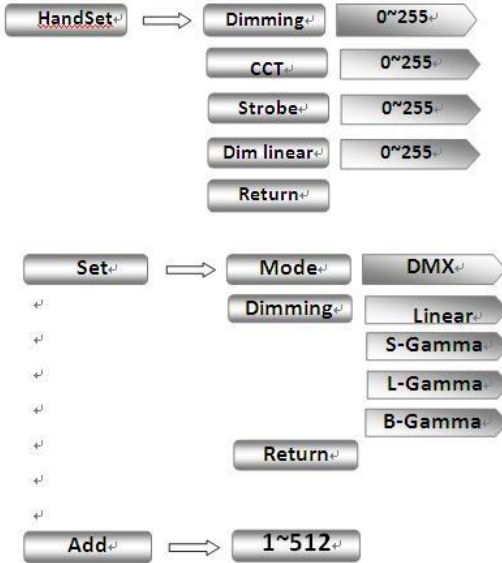
5 Operation

5.1 DisplayWindow



- Dot icon for DMX signal instructions, do not display when no signal

5.2 MENU



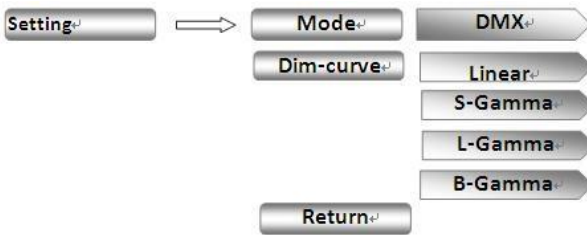
- ENTER : Function to the next level submenu and save or confirmation setted fuction data ;
- UP : Select function sub menu,up cycle adjustment data ;
- DOWN : Choose function submenu,circulate down to adjust the data values ;
- MENU : Return to a layer on the menu, or switch to the main menu

5.3 DMX512AddresscodesettingADDR



- ◇ Press [UP]/[DOWN] or Rolling hand wheel to [ADDR]
- ◇ Press [ENTER] to edit state,address code appears red words,Press[UP]/[DOWN]to choose the address codebetween [001-512] ;
- ◇ Press [ESC] or [ENTER] to back to main menu

5.4 LightSET



- ◇ Press[ENTER] in menu [SETTING] to Light set operation
- ◇ Press [UP]/[DOWN] to choose setting Manuel
- ◇ Press[ENTER] in menu [MODE] to [DMX] for signal choose mode
- ◇ Press[DIMMING] to setting mode for linear

6 DMX512 Console channel chart

ChannelMode		Name	Value	Functiondetails
Reduced	Standard			
1	1	Dimming	000-255	dimming 0-100%
2	2	Fine Tuning	000-255	Fine Tuning
3	3	CCT	000-255	CCT 3200-5600K
4	4	Strobe	000-002	Steady lighting
			003-127	strobe 0-20Hz
			128-252	Random strobe
			253-255	Steady lighting
\	\	Null	\	\
\	6	Dimming curve	000-063	Linear dimming curve
			064-127	Square dimming curve
			128-191	Inverse dimming curve
			191-255	S-shaped dimming curve
\	7	Dimming speed	000-127	Tungsten lamp dimming effect
			128-255	LED light dimming effect
\	8	Cooling fan	000-127	Automatic mode
			128-255	Manual control



Das Lichttechnikhaus Vertriebs GmbH

Rudolf-Diesel-Str. 3, D-89312 Günzburg

Telefon +49 (0) 82 21 207 98-0

Fax +49 (0) 82 21 207 98-69

E-Mail info@lth-gmbh.de

Web www.lth-gmbh.de