Squareled

SquareLED – Hi-Precision 300W LED Profiler MK2 fixed Focus

Manual │ Hi-Precision 300W LED Profiler MK2 fixed

1. TECHNICAL PARAMETERS

1.1 Electrical Parameters

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 colorfullLCD display

1.2 Mechanical and physical parameters

Light source: 300W COB Light
Color(Light source):   White
Color Temperature: 3200K/ 5600K
Color Rendering Index: ≥90
Beam Angle: 5°, 10°, 14°, 19°, 26°, 36°, 50°optional
Luminum: 13000LM
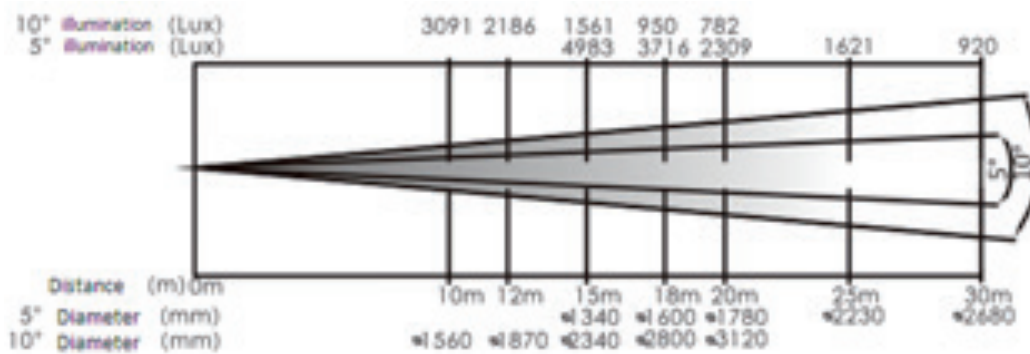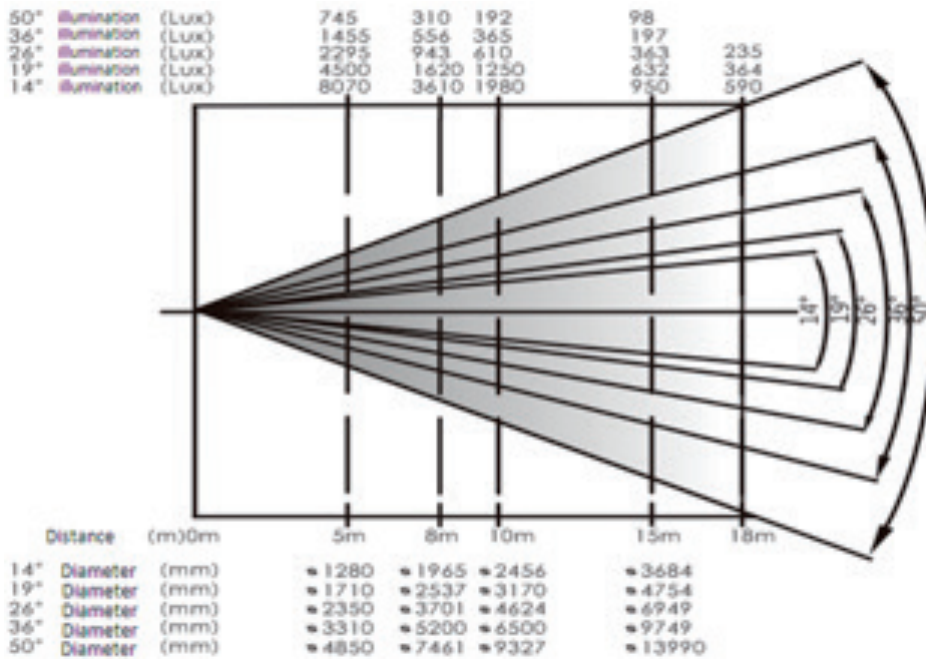Dimmer: 0-100%
Strobe: 0-20Hz

1.3 3Mechanical and physical parameters

Case Material: Die-casting aluminum/aluminum/Plastic
Protection Grade: IP22
Working Temperature: -20~40℃
Noise: 36db
Net Weight: 11.5 KG
Dimmension: 1187*361*560mm (5°)
                          887*296*525mm (10°)
                          837*285*525mm (14°)
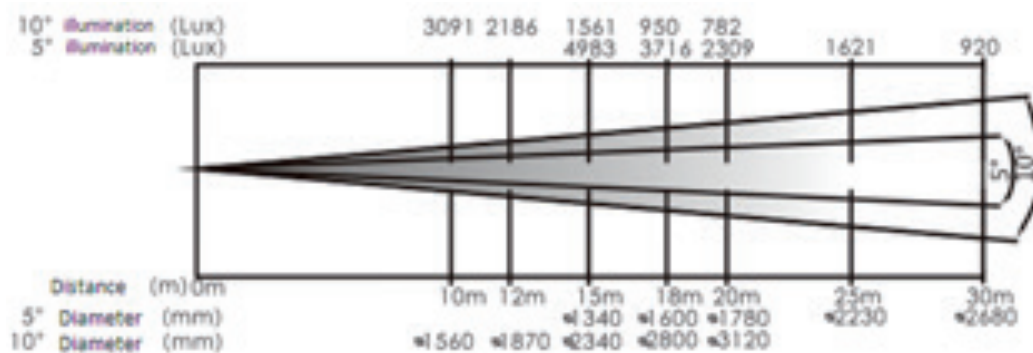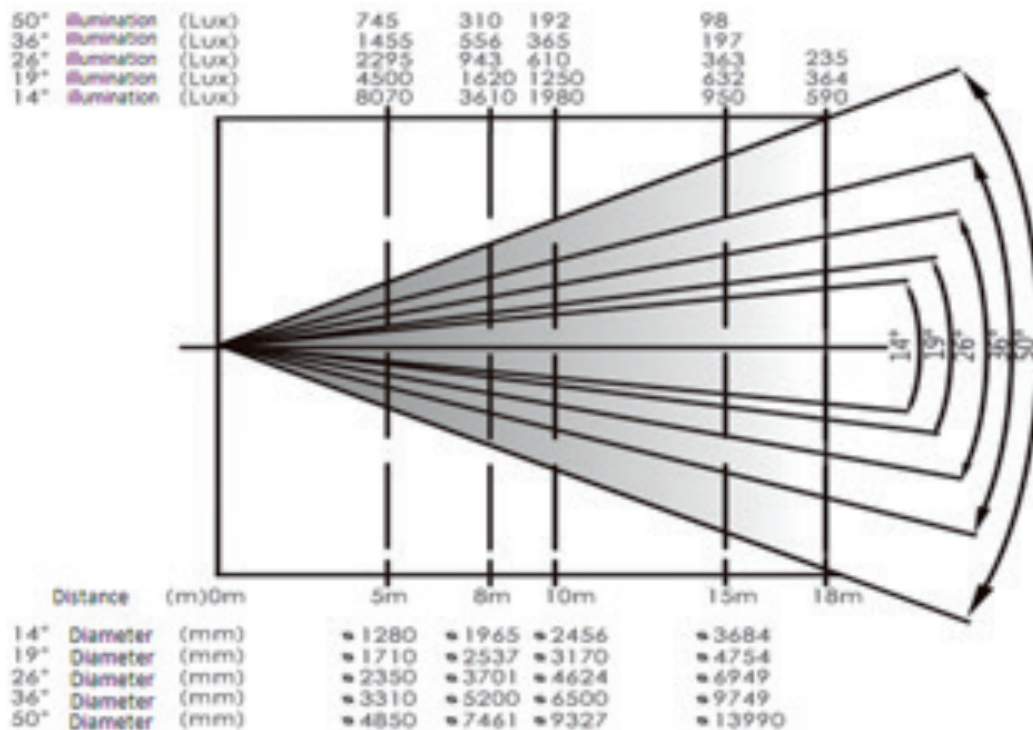   768*285*525mm (19°, 26°, 36°, 50°)

2. Illumination Chart

2.1 5600K Illumination

2.1 5600K Illumination

50°	Illumination	(Lux)	745	310	192	98	
36°	Illumination	(Lux)	1455	556	365	197	
26°	Illumination	(Lux)	2295	943	610	363	235
19°	Illumination	(Lux)	4500	1620	1250	632	364
14°	Illumination	(Lux)	8070	3610	1980	950	590

Distance	(m)	0m	5m	8m	10m	15m	18m
14°	Diameter	(mm)	●1280	●1965	●2456	●3684	
19°	Diameter	(mm)	●1710	●2537	●3170	●4754	
26°	Diameter	(mm)	●2350	●3701	●4624	●6949	
36°	Diameter	(mm)	●3310	●5200	●6500	●9749	
50°	Diameter	(mm)	●4850	●7461	●9327	●13990	

| 10° | Illumination | (Lux) | 3091 | 2186 | 1561 | 950 | 782 | 1621 | 920 |
| 5° | Illumination | (Lux) | | | 4983 | 3716 | 2309 | | |

Distance	(m)	0m	10m	12m	15m	18m	20m	25m	30m
5°	Diameter	(mm)				●1340	●1600	●1780	●2230	●2680
10°	Diameter	(mm)		●1560	●1870	●2340	●2800	●3120		

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.

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Important Notice:
- Make sure the power supply within the standard data range
- he fixture's power supply connection line can not connectto any other fixtures.
- The fixture's DMX512 signal line can not 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.
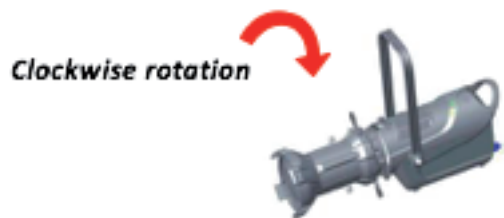

Safety rope round the back handle
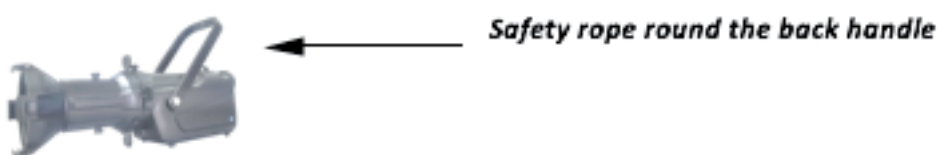
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Horizontal place: Lens cone install as shown in the figure below.

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

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 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 DMX512console and signal cable.
- DMX512address code is reusable.
- DMX512 address code can be any number between 001 to 512.
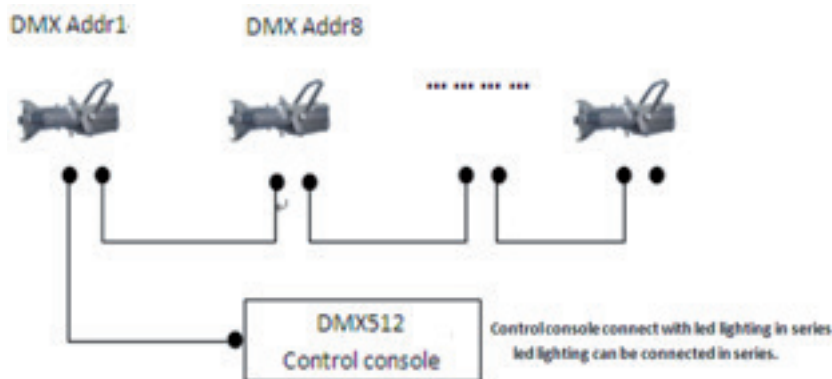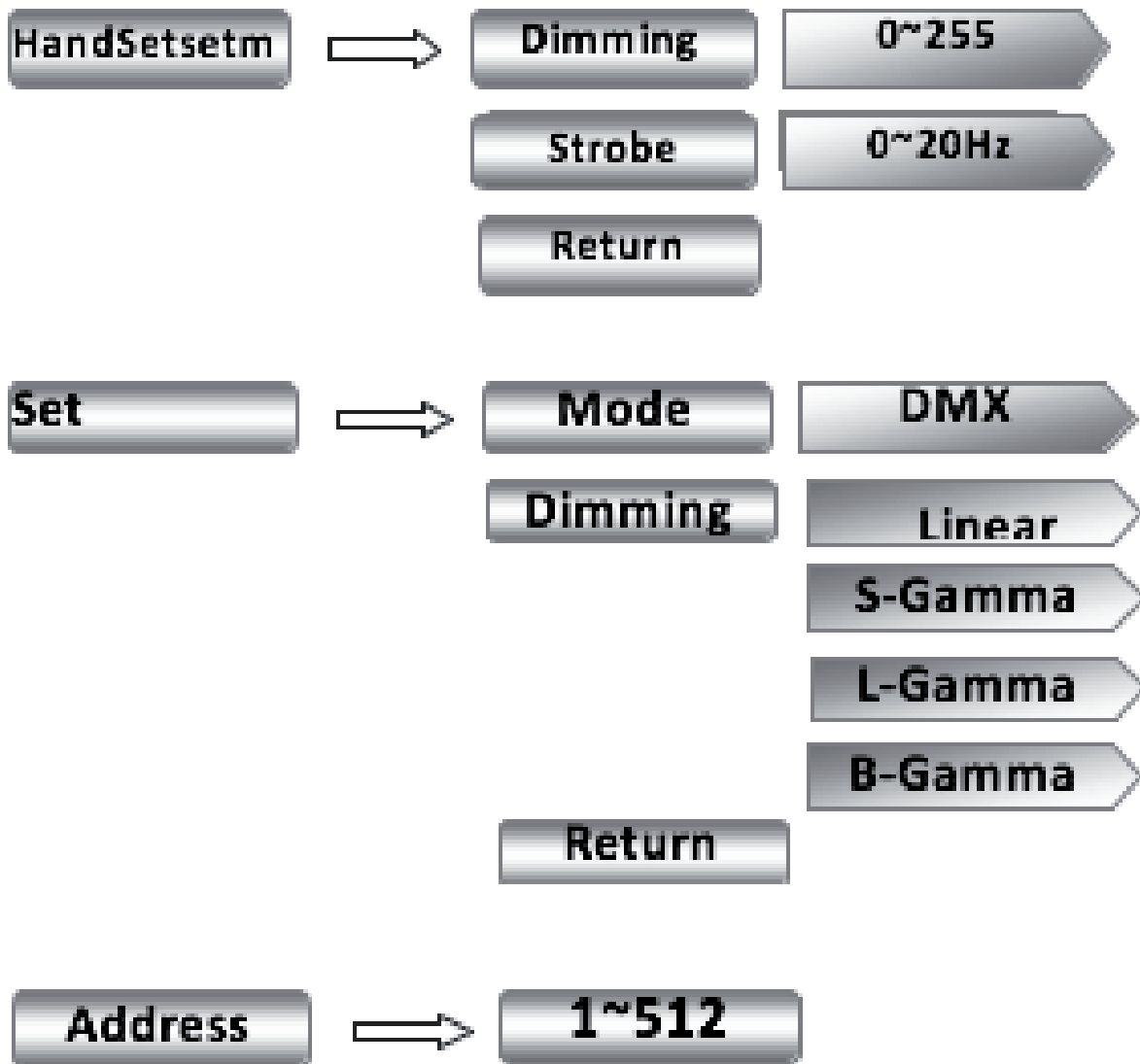

5. Operation

5.1 Display Window

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

5.2 MENU

HandSetsetm	⟹	Dimming	0~255
		Strobe	0~20Hz
		Return	

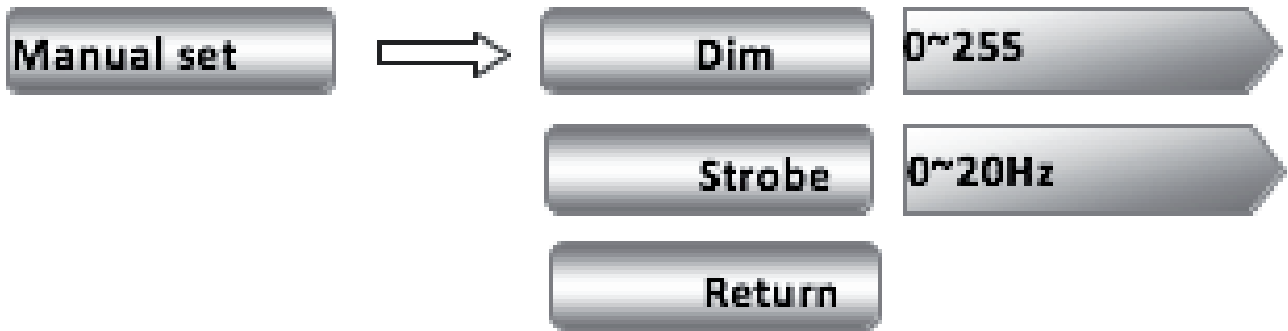| Set	⟹	Mode	DMX
		Dimming	Linear
			S-Gamma
			L-Gamma
			B-Gamma
		Return	

Address	⟹	1~512

- ENTER: Function to the next level submenu and save or confirmation settedfuction 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 Manual Setup-STAT

- Press [ENTER] in menu to static setting
- Press [UP]/[DOWN] or Rolling hand wheel to choose [DIM], [STROBE]
- Press [ENTER] to edit state, Press [UP]/[DOWN] or Rolling hand wheel to set, [DIM] setting data is 0~255, [STROBE] setting data is 0~20Hz
- Press [ESC] or [RETURN] to back to main menu and save automatically
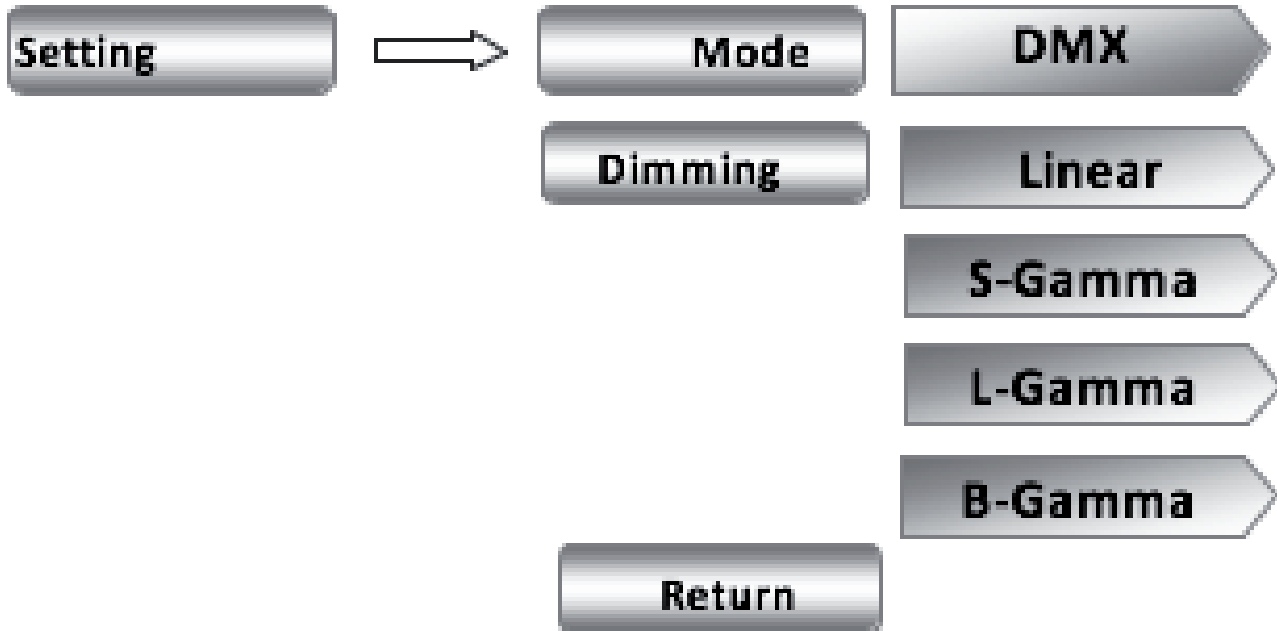
5.4 DMX512Address code setting ADDR

- Press [UP]/[DOWN] or Rolling hand wheel to [ADDR]
- Press [ENTER] to edit state, Press [UP]/[DOWN] to choose the address code between 001 to 512
- Press [ESC] or [ENTER] to back to main menu

5.5 Light SET

- 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

Channel No	Channel value	Command function
1	0~255	White 0~100% dimming
2	0~5	No function
	6-255	0~20Hz Strobe
3	0~10	Internally dimming speed
	11~40	Linear dimming speed4
	41~70	Linear dimming speed3
	71~110	Linear dimming speed2
	111~140	Linear dimming speed1
	141~170	Turn-off linear dimming
	171~255	No function