

LASER SHOW SYSTEM

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RGB 10W – DI-PA



Model: RGB 10W – Di-PA

User Manual

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ELECTRA  **LIGHT**®

DMX Control Parameter Chart

Thanks for your purchasing, please read this manual carefully before operating the system. It gives you general information for your safety and better operation.

Channel No		DMX512 fig.	Content
Channel 1	Control mode	0~49	Sound control
		50~99	Auto- beam
		100-149	Auto-animation
		150~255	manual
Channel 2	Color select	0-5	Laser off
		6-255	Color selection
		128-255	Channel 1 sound and auto will be valid only at this fig
Channel 3	Pattern select	0-255	patterns
Channel 4	Vertical move	0-127	Manual
		128-191	From down to up speedy
		192-255	From up to down speedy
Channel 5	Horizontal move	1~127	Manual
		128-191	From right to left move
		192-255	From left to right move
Channel 6	Vertical rotate	0-255	From slow to speedy
Channel 7	Horizontal rotate	0-255	From slow to speedy
Channel 8	rotate	0-127	manual
		128-191	Anticlockwise rotate
		192-255	Clockwise rotate
Channel 9	zoom	0	static
		1-85	From small to big
		86-170	From big to small
		171-255	Auto zoom
Channel 10	Pattern size	0	normal size
		1-255	Small to big
Channel 11	Spot and line	0-255	Line to spot
Channel 12	Twinkle speed	0-22	Slow to speedy

Emergency Stop Box

This emergency stop box should be connected well to the high power laser projector. Keep the key switch on, for the emergency safety, just press the RED button. It will control the laser projector, no laser out put. Standard package with 5 Meter DB9 connect cable.



Maintenance

- ☆ Please clean the lens regularly. Do not do it using the wet cloth or other chemical. the clean times is depend on the using frequency and surrounding condition. It is recommended that should be cleaned every 20 days.
- ☆ Please clean the lighting surface and engine outlet regularly.
- ☆ Be sure that there is no flammable or explosive subject nearby. The least distance is 0.5 meters. at the same time, keep more than 15cm between the wall and laser lighting;

Warning

- ◇ Power off before installation or maintenance;
- ◇ The danger class of this laser lighting is CLASS III B. It's dangerous for observing laser. The safe minimum distance is 13cm,the safe maximum time is 10 seconds;
- ◇ Keep at least 0.5 meters distance between the lighting and flammable material;
- ◇

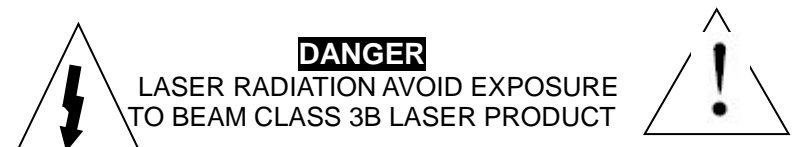
Inspection

Check for the contents in the package refer to the following list:

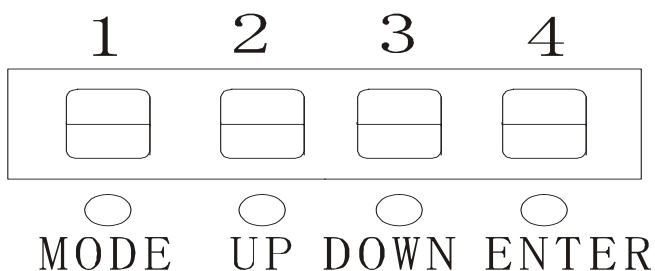
1. 10WRGB laser System: 1
2. Power cable: 1
3. User manual: 1
4. Emergency button for remote control

Technical parameters

1. Laser diode: DPSS, Green 532nm; Red 638nm; Blue 445nm
2. Power supply: AC110-240V, 50/60Hz
3. Power consumption: 200W
4. Laser power: Red 2W, Green 2W, Blue 6W
5. Scanners: high speed scanners DT40pro.
6. Control mode: Sound control/Auto/DMX/ILDA
7. Emergency button for remote control.
8. Dimensions: 425mm×380mm×420mm
9. Net weight: 25KG
10. Gross weight: 27KG (44KG with flycase)



Function Setting (Digital board)



THE 'MODE' FUNCTION

'Audi': Sound control

'Auto': Auto-run control

'dxxx': DMX512 control

The 'xxx' is address code. Press 'UP' or 'DOWN' to set it down.

'SLAV': Slave machine

In this mode, the slave machine will do the same effect as master machine.

'XXXX': TOTAL RUNNING TIME

In this mode, you can know how long the laser has worked.

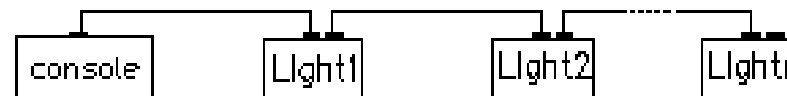
'ENTER': Press ENTER after setting is done.

Installation

- 1、 Firstly, be sure that the using voltage is match with the voltage marked on the base of the laser lighting;
- 2、 Installation should be made by professional technician. Fix the laser lighting and adjust the angle of the laser lighting to you need;
- 3、 Please check whether the fan and the exhaust is blocked;
- 4、 There is a hole for connection. When hang the laser lighting, be sure the cable can undertake 10 times of the lighting weight;
- 5、 The laser lighting should be fixed;
- 6、 It is essential to be earthed well for the sake of safety.

DMX512

This laser light is controlled by the standard DMX. Please connect controlling panel with the lighting as following



Before using the DMX512 controller, you should set the channel address in the digital display.

One unit has 9 channels, so each unit must be assigns 9 channels at least. We may assign 9 channels for one unit, then DMX

address = $12 * N + 1$, $N = 0, 1, 2, 3 \dots$

Example: One loop address=1, two loop address=13, three loop address=25, four loop address=37

Loop	Digital address
1	1
2	13
3	25
4	37

PC Control

If it is set to ILDA mode (use PC software to control light), just need to connect ILDA signal to DB25 jack. ILDA mode (PC control) and built-in program mode can be identified and transited automatically.