

# **User Manual**

## **RGB10W full colour animation laser**



**Please read the instructions carefully before use**


**Parameters:**

Rated voltage: AC110-220V 50 ~ 60Hz  
Rated power: 110W  
Laser power: RGB 10W  
Laser light source: Red:3000mw/638nm Green3000mw/520nm  
Blue:4000mw/447nm  
Laser pattern: 256 laser animation patterns  
Modulation signal: TTL modulation (analog modulation)  
Scanning system: 30kpps  
Scanning angle: plus or minus 25 degrees  
Control mode: DMX512, voice control, self-propelled, master-slave mode, computer ILDA control  
Control channel: 16 DMX512 channels  
Cooling system: forced cooling by fan  
Working environment: Indoor  
light body size: 41 \* 37 \* 30 / cm  
carton: 1in1 45x47x38cm NW: 14kg GW: 16.5KG

Function: it can be controlled by pangolin qsf3 / FB4 or fire phoenix and other laser software. The ILDA control adopts automatic electronic change-over switch, with scanning system error protection and laser light closing protection. The machine itself is equipped with pattern size and inverse adjustment, manual laser electronic lock switch.

**一、 LCD displays as follows:**



 LED indicator

 Select Menu

**1、 LED indicator description**

<b>Laser Key</b>	<b>Red :slow strobe</b>	<b>Green:Slow strobe</b>
<b>Safety Protected</b>	<b>Red: ON</b>	<b>Green:OFF</b>
<b>DMX And Slave Mode</b>	<b>Red:Fast strobe</b>	<b>Green:Fast strobe</b>
<b>Auto Mode</b>	<b>Red: OFF</b>	<b>Green:Slow strobe</b>
<b>Music Mode</b>	<b>Red: OFF strobe</b>	<b>Green:ON strobe</b>
<b>ILDA Mode</b>	<b>Red: OFF</b>	<b>Green:Fast strobe</b>

## 2、 Select Menu

Rotate left and right to select the required function menu,Press OK / return to the selected function.

<b>First level menu</b>	<b>Second level menu</b>	<b>Three level menu</b>
1、 Function Mode	1、 DMX512Mode 2、 Auto Mode 3、 Music Mode 4、 ILDA Mode	
2、 Show Listing	Choose List All The List 001	
3、 Play Show	Choose Show All The Show 001	
4、 Play Setup	Play Setup 1、 Play Speed 2、 Play Mode	1、 Play Speed 50%
		3、 Loop Play Random Play
5、 Address Setup	Address Setup 001	
6、 Channel Setup	Normal Mode Expert Mode	

7、Laser Setup	1、Scanner	1、Scan Rate
	2、Color	2、Color Setup/ 3、Single colour RGY RBP GBC RGB WYPC
	3、Laser	3、Laser Type TTL Analog
	4、Invert Normal	4、Normal /XY invert X invert Y Ainvert XY
	5、Image Size X Y	4、Image Size Size X Size Y
	6、Position X Y	6、Position Setup position X position Y
8、General Setup	1、Reset Default	1、Reset Default/ Yes No
	2、Safety Protected	2、Safety Protected Turn ON Turn OFF
	3、Master Setup	3、Master Setup Turn ON Turn OFF
	4、Back Light	5、Back Light Normally ON Delay 15S OFF

	5、Language	5、Language Chinese English
	6、Display Setup	6、Display Setup Rotate 180° Normal Display
	7、About System	7、LaserSystem2.9

### 三、DMX-512

#### 16CH

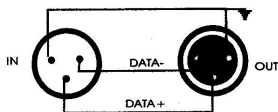
CH		value	Introduction
CH1	light	0	Turn off
		1~255	Turn on 1-100%
CH2	Red brightness	0~255	0~100%
CH3	Green brightness	0~255	0~100%
CH4	Blue brightness	0~255	0~100%
CH5	Pattern library and effect Library	0~255	Choose a pattern library and effect library for every 8 values
CH6	Pattern selection	0~255	Choose a pattern effect for every 3 values
CH7	Pattern size	0~255	Pattern big to small
CH8	Rotate Z	1~127	Rotate Z Angle selection
		128~255	Rotate Z Speed selection
CH9	zoom	1~127	Zoom size
		128~255	Zoom speed
CH10	Horizontal position	0~255	Value 128 is the middle position, CH3 1-255 have effective
CH11	Vertical position	0~255	Value 128 is the middle position,

			CH3 1-255 have effective
CH12	Pattern gradient	1~255	Pattern gradient speed
CH13	scanning speed	0~255	scanning speed
CH14	Horizontal movement	1~127	Horizontal movement position selection
		128~255	Horizontal movement speed selection
CH15	Vertical movement	1~127	Vertical movement position
		128~255	Vertical movement speed
CH16	colour	0~63	Fixed color
		64~95	Fixed color / color change effect speed
		96~127	Color change effect speed
		128~159	Color changing effect speed selection/flowing effect speed
		160~191	Color speed
		192~223	Effect of water speed
		224~255	Pattern effect speed

**●Signal connection and address dialing method:**

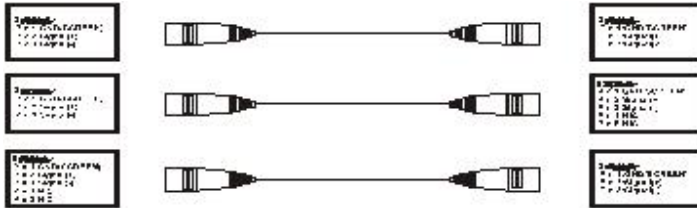
The controller has DMX512 standard signal output. Connection is through the "input" and "output" of 3 for XLR complete. Control console Signal to the lamp must be corresponding lamps 3 pin XLR seat: 1 feet, 2 feet, 3 feet of negative, positive; otherwise the 2 and 3 (a swap Like the console are not on the two foot). The signal line length should be within 100M, prevent the signal line is too long to be interfered by other appliances.

This product adopts 3 core XLR socket (head), the following connection method for multiple:



Note: Remember the last fixture's output to connect the supplied DMX, DMX terminator "CANON (Caron interpolation)," about a 120Ω connection between the plug 2 feet and 3 feet of resistance connected the DMX can effectively avoid signal reflections DMX512 signal transmission generated in the process.

If your DMX-512 signal control station is a 5-pin XLR socket (head), you must use a 5-pin to 3-pin from the conversion line, specific conversion method as shown below:



When the console control signal input to the full color animation laser performance device, all full color animation laser performance device must first set address code. In order to Role of the corresponding control signal. So, when using any controller, each lamp must have its own address code. So, in the first lamp address is set to 1, second sets of lamps address code is set to 13 (the first lamp address codes 1 and 12 channel),Third table lamps set in position 25. And so on (this setting is required according to control different set, now only with common people).

**The specific DMX-512 signal control mode of address code switch is arranged as below:**

The lights	The starting address	Digital display (ON)
1	1	A0.01
2	13	A0.13
3	25	A0.25
⋮	⋮	⋮

ILDA interface control method using the function mode:

The ILDA interface signal line access standard automatically switch to ILDA interface control mode.

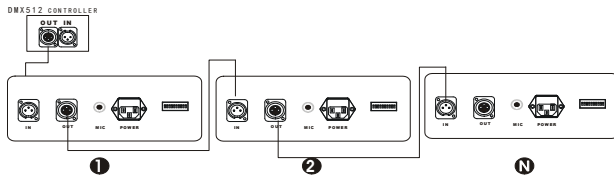
Note: disconnect the power first, then plug the ILDA interface signal lines, so as not to damage the lamp.

Master slave synchronization function matters needing attention:

1, as the host, the lamp will send DMX-512 signals, you cannot connect to the DMX-512 console, otherwise it will interfere with each other, not synchronous operation.

2, a plurality of lamp master-slave synchronous operation, of which only a mainframe, the other from the machine. Not synchronous operation.

Master slave synchronization connection diagram as follows:



### Safety instructions:



! The lighting in the installation and repair of, please confirm the lamp power off.

! Please ensure smooth lamp fan outlet and the surrounding environment with good ventilation. Do not long-term use of this product in a humid environment.

! The lamps in the indoor use or repair please stop lamp contact water, if used for outdoor, please do waterproofing measures.

! Installation, operation and repair personnel must be familiar with the performance of light before the operation, otherwise it will damage the lamp.

! Please do not use different specifications of the power supply voltage and a laser generator.

! Do not look directly at the laser light source, so as not to damage the eyes.

! Do not use the jitter of the product.

#### ●Maintenance:

1, try to eliminate dust, dirt and oil for laying even into the lamp body, use of the environment to keep the grating effect series laser performance device clean;

2, please regularly every month to use glass cleaning agent professional and lint cleaning mirror so as to ensure that the laser output and maximum brightness can prolong the service life of the light source.