User Manual

RGB full color animation laser light

Product Manual

Thank you for purchasing full color animation laser light beam case, for your personal safety and the better use of the product.

Please read this manual carefully before using the press operating procedures, in order to avoid misuse of personal safety and caused light damage.

●Packing List:

Check in when you open the case of full color animation laser light beam whether the box has the following items:

•••••••• full color animation laser light beam of a case

•••••••• case full color animation laser light beam power line

•••••••• full color animation laser light beam handle the case (rings) 1/2/4

•••••••• case full color animation laser light beam DMX512 signal line 1

•••••••• full color animation laser light beam case a manual

● Product and functional effects Introduction:

● Full-color Animation laser light show is part of compliance with international laser generator using standard semiconductor laser generator, laser light, long life, high stability.

● Effect features: Built-in 128 performances of the latest laser pattern effects features: laser show effects animation and geometric beam pattern effects can be customized text / name and festive animation design, Chinese / English performances romantic effect, with spatial effect, projection effect, laser dimming effect, laser strobe effect, time travel effect, three-dimensional laser effects such as the latest laser show effects.

● Classic Effect: beam network, Mangmangyunhai, dazzling, rotate billowing, zoom, 3D laser time tunnel effect and so on.

● This product with another computer ILDA laser software interface signals through animation design software design and programming performance / program type!

Technical parameters:

Rated voltage: AC110-220V

Rated frequency: 50 ~ 60Hz

Rated power: 120W

Laser power: RGB   3-5W

Laser light: red R green G wavelength 532NM Wavelength Wavelength 447NM 638NM blue B

Laser Pattern: 128 laser patterning (built: animation patterns and geometric lines Class 2 Group Performance)

Modulation signal: TTL modulation (analog modulation)

Laser color: RGB full color

Scanning System: galvanometer scanning 15-25KPPS
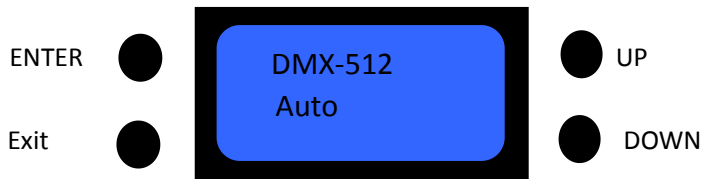
Scanning angle: ± 25 degrees

Control mode: DMX512, voice-activated, self-propelled, ILDA computer interface control, master-slave mode

Control channels: 12 DMX512 channels

Cooling system: fan forced cooling

Working environment: Indoor

一、LCD digital display panel：

ENTER ● [DMX-512 Auto] ● UP

Exit ● ● DOWN

Use touch keys and LCD menu display function, easy to use menu operations,

Powered automatic loading LaserSystem2.8 software,

After loading the software displays the software version

(Sof-v2.8).

Through UP, DOWN keys to select the function needs.

By ENTER, Exit button to determine the selected function, return to the previous menu.

LCD features Menu settings：

A menu	B menu	C menu
1、DMX-512 DMX-512 功能	Address 001 选择灯地址码	
2、Auto 自走功能	Show 01 选择效果	
	Speed 09 选择自走效果	
3、Music 声控功能	Show 001 选择效果	
4、Testing 测试功能	1、Scanner 选择扫描速度	1、Scanner 2、30KPPS
	2、Color 选择颜色	● Single1-7 ● RGY 1、RBP 2、GBC 3、RGB WYCP
	3、Size 扫描范围设置	Size 128
	4、Invert 反相 XY	Invert 1 NO 2 X

		3 Y
		4 XY
5、Setting 设置功能	1、Light 背景灯设置	1、ON　　常亮 2、ON 5S 亮 5 秒
	2、One Beam 一束光保护设置	1、OFF 关闭 2、ON　启用
	3、Master 主机设置	1、OFF 关闭 2、ON　启用
	4、Default 恢复出厂设置	1、Yes　是 2、No　否

● function key operation:

1. Choose DMX512 Function:

　　Through UP, DOWN button to select DMX-512, press ENTER button to enter the DMX-512 function, through UP, DOWN keys to set the address code 001,013,512, press EXIT to return.

2. Select the self-propelled feature:

　Through UP, DOWN keys to select AUTO, press ENTER button to enter the self-propelled function, through UP, DOWN keys to select the effect of self-propelled and other 001,002,003, press EXIT to return.

3, select the voice features:

　Through UP, DOWN keys to select Music, press ENTER button to enter voice function, through UP, DOWN keys to select the voice effect O01, O02, O03, etc., press EXIT to return.

4. Select Debug functions:

　　Through UP, DOWN keys to select Testing, press ENTER button to enter debug function via UP, DOWN keys Scanner, Color, Size, Invert functions as follows, press EXIT to return

Scanne Sets scanning speed galvanometer lamp:

　Through UP, DOWN keys to select Scanne, press ENTER

button to enter (30KPPS), at the same time by UP, DOWN keys to select 10KPPS-30KPPS, press EXIT to return.

Color Sets the lamp color mode:

● Through UP, DOWN keys to select Color, press ENTER button to enter, through UP, DOWN keys to select Single1-7, Single1-7

Are seven kinds of monochrome modes, namely re-election RGY, RBP, GBC, RGB, WYCP.

5, choose settings:

Through UP, DOWN keys to select Setting, press ENTER button to enter the setting function via UP, DOWN keys to select Light, One Beam, Master, Default functions are as follows, press EXIT to return.

Light set the display light functions:

Through UP, DOWN keys to select Light, press ENTER button to enter, through UP, DOWN keys to select ON (display lit), 5S (display light off display after 5 seconds), press EXIT to return.

One Beam Sets whether to open a beam of light protection:

Through UP, DOWN keys to select One Beam, press ENTER button to enter, through UP, DOWN keys to select OFF (closed beam of light), ON (open beam of light), press EXIT to return.

Master Set whether to open the host function:

Through UP, DOWN keys to select the SETC, press ENTER button to enter, through UP, DO WN keys to select OFF (off the host), ON (open host), press EXIT to return.

Default factory setting is restored Function:

Through UP, DOWN keys to select Default, press ENTER button to enter the default function, by UP, DOWN

keys YES (to restore the default), NO (does not restore the default) the following functions, press EXIT to return.

● **DMX512 Channel Description:**

CHANNEL		DMX-512 numerical value	DESCRIPTION
CH1	Laser off	0～41	Laser off
	Automatic	42～83	Manual control CH2-CH12 valid
		84～125	Run animation effects build-in, CH2-CH12 invalid
		126～167	Run beam effects build-in, CH2-CH12 invalid
	Music-active	168～209	Run beam effects build-in, CH2-CH12 invalid
		210～251	Run animation effects build-in, CH2-CH12invalid
		252～255	Manual control CH2-CH12 valid
CH2	Patterns selection	0～255	Patterns selection
CH3	Patterns rotation	0～127	Rotation angle selection
		128～191	Opposition rotation speed selection
		192～255	Positive rotation speed selection
CH4	Patterns flip horizontal	0～127	Flip horizontal position selection
		128～255	Flip horizontal speed selection

CH5	Pattern flip vertical	0～127	Flip vertical position selection
		128～255	Flip vertical speed selection
CH6	Patterns horizontal moving	0～127	Horizontal moving position selection
		128～255	Horizontal moving speed selection
CH7	Pattern vertical moving	0～127	Vertical moving position selection
		128～255	Vertical moving speed selection
CH8	Pattern size	0～63	Pattern size selection
	Pattern zoom in/out	64～127	Zoom out speed selection
		128～191	Zoom in speed selection
		192～255	Speed selection
CH9	Patterns gradually drawing	0～255	Gradually drawing speed selection
CH10	Scanning	0～127	Pattern scanning speed selection
	Hot spot effects	128～255	Hot spot adjustion
CH11	Color	0～24	Fixed color
		25～199	Color change rotation
		200～224	Change color from slow to fast
		225～255	
CH12	Color change speed	0～255	

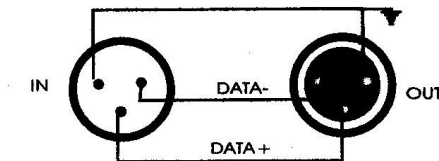## ●Signal connection and address dialing method：

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

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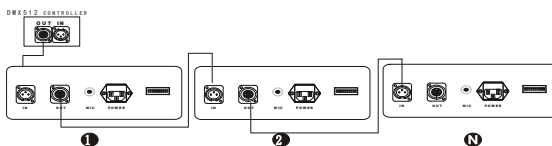
Note: disconnect the power first, then plug the ILDA interface signal lines, so as not to damage the lamp.

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.