

# User Manual

## RGB Animation laser light



**Thank you very much for purchasing this full-color animation series of laser lights . For your personal safety and better use of this product, please read this manual carefully before use, and strictly abide by the stated warnings and operating instructions to avoid**

**misuse and damage. Personal safety and lamp damage .**

**● Packing list:**

When you unpack the laser light , please check for the following items:

…… One full- color animation laser light

……one instruction manual

**● Instructions for use:**

After opening the packing box, carefully check whether the laser show is damaged due to transportation, such as whether the screws are loose, whether the reflective lens is broken, etc. In case of damage caused by transportation, please do not use this lamp and contact the dealer or manufacturer as soon as possible.

Lamps cannot be installed in a live state. After checking that everything is normal, choose a suitable location, hang the lamps and adjust the angle, and after the installation is completed, you must repeatedly check the installation line and wiring method before powering on. And the whole circuit needs to be equipped with a protective device.

This equipment belongs to Class 1 protection equipment, so the yellow-green wire must be grounded, and it must be done by professionals. Check whether the power supply voltage is normal before use. If the power supply voltage fluctuates greatly, it is recommended to use 110V/230V regulated voltage or a voltage regulator for power supply. After the power is turned on, the computer board performs a self-test for 20 seconds, and it can

be used after the self-test.

### ● Safety Warning :

1. Live operation is likely to cause electric shock accidents, and electric sparks will be generated when connecting, which will damage the safety circuit and light source of the lamp, and cause the lamp to not work normally. So before any installation and maintenance work, please make sure that the power supply has been cut off.
2. Please do not install the lamp directly on the surface of common combustible substances.
3. The lamp should be installed in a well-ventilated place, and the distance from the wall should be kept at least 10 cm. At the same time, please check whether the fan hole is unobstructed.
4. Do not project the lamp directly on combustible objects, and keep the distance between the lamp and the illuminated object at least 12 meters.



**WARNING!!! Do not look directly at the beam of the lamp at close range, so as not to cause damage to the eyes!**

### ● Technical parameters:

1. **Power supply:** AC110V/220V, 50-60Hz±10%

2. **Rated power:** <300W
3. **Laser type :** all solid-state semiconductor laser
4. **Laser power:** RGB 5-10W
5. **Laser wavelength:** R:638nm/635nm,, G:520nm/532nm,  
B:450nm/447nm
6. **Laser modulation signal:** analog modulation / TTL modulation signal
7. **Laser color:** full color
8. **Laser patterns:** built-in 128 patterns and animations
9. **Scanning system:** 25- 40KPPS high-speed galvanometer
10. **Galvanometer scan angle:**  $\pm 30$  degrees
11. **Control channel:** 10 and 34 DMX-512 signal channels
12. **Control mode:** ILDA ( RJ45 ) control, DMX-512 signal control  
(waterproof connector) ,

Self-propelled mode, master-slave mode

13. **Cooling system:** laser with TEC refrigeration, forced cooling by the fan of the whole machine

14. **Working environment:** indoor and outdoor  
( -10- 35°)

15. **Protection level:** IP66
16. **Product size:** 335\*340\*170mm (including handle)



17. **Product net weight:** 9.8kg

● **Menu display : (the button is a waterproof touch button)**



← **Menu key / Confirm**

← **up and down selection keys**



1. SelectMenu/menu selection.

Press the MODE/ENTER key plus the down select key to select the required function menu, the black shaded bar is the selected state, press OK/return to the selected function.

● **LCD Chinese/English menu functions are as follows:**

A menu	Secondary menu	Level 3 menu
1、 FunctionMode functional mode	1. DMX-512 Mode/DMX-512 Mode 2. AutoMode/self-propelled mode 3. Music Mode/Voice Control Mode 4. ILDA Mode/ILDA mode	
2、 Show Listing programme schedule	Choose List / Choose List AllTheList / AllTheList001 _	
3、 PlayShow play program	Choose Show / Choose Show AllTheShow / All Show 001	
4、 Play Setup playback settings	PlaySetup/playback settings 1. PlaySpeed / playback speed 2. PlayMode/play mode	1. PlaySpeed/playback speed 50% 2. LoopPlay / loop playback RandomPlay /shuffle play

5、 Address Setup Address code setting	AddressSetup/ address code 001	
6、 Channel Setup channel settings	Normal ModeNormal Mode Expert Mode Professional Mode	
7. Laser Setup Laser Light Settings	LaserSetup laser light setup 1. Scanner scanning speed 20KPPS 2. Color color setting RGB 3. Laser Laser Analog 4. Invert reverse phase setting Normal 5. Image Size setting XY 6. Position position setting XY	1. Scan Rate / scan speed 20KPPS
		2. Color Setup / color settings Single/monochrome RGY RBP GBC RGB WYPC
		3. Laser Type /Laser Settings TTL/TTL modulation Analog/analog modulation
		4. Normal / Normal XY invert X / reverse X invert Y / reverse Y invert XY/inverted XY
		5. Image Size / size setting Size X / Size X Size Y/Size Y
		6. Position Setup position X/ position X position Y/position Y
8. General Set up general settings	GeneralSetup/General Setup 1. Reset Default/ restore default 2. SafetyProtected/ safety protection closed light 3. Master Setup / Host Setup 4. Back Light / backlight setting 5. Language / language setting 6. Display Setup/ display settings 7. About System	1. Reset Default/restore default Yes/Yes No/No
		2. SafetyProtected/safety protection closed light Turn ON/Open Turn OFF
		3. Master Setup/Host Setup Turn ON/Open Turn OFF
		4. Back Light/backlight setting Normally ON Delay 15S OFF/ delay 15 seconds to turn off the light
		5. Language/language settings Chinese/Chinese English/English

		6. Display Setup/display settings Rotate 180deg/rotate 180 degrees NormalDisplay/normal
		7. LaserSystem2.9/Laser System 2.9 Software/software version Version 1.0/Ver1.0 YM:2020030601

## ● DMX-512 channel description:

### 1. STD/normal mode : 10CH

	aisle	channel value	control content
CH1	switch light	0	turn off the lights
		1 ~ 255	Turn on the light 1-100%
CH2	strobe	1 ~ 255	Strobe speed selection
CH3	pattern size	0 ~ 255	Pattern selection from large to small
CH4	horizontal position	0 ~ 255	Horizontal position selection, the value is 128 is the middle position , only valid when CH3 is 1-255
CH5	vertical position	0 ~ 255	Vertical position selection, the value is 128 is the middle position, only valid when CH3 is 1-255
CH6	pattern file	0 ~ 255	Select a pattern file from the pattern library file
CH7	color	0 ~ 63	Fixed color selection
		64 ~ 95	Fixed color/color changing effect speed selection
		96 ~ 127	Color changing effect speed selection
		128 ~ 159	Color-changing effect speed selection / flowing water effect speed selection
		160 ~ 191	Water effect speed selection
		192-223 _ _	Water effect speed selection
		224 ~ 255	Fading effect speed selection
CH8	line scan speed	0 ~ 127	Line scan speed selection
	point scan speed	128 ~ 255	Point scan speed selection
CH9	Pattern Library and Effect Library	0 ~ 255	Choose a pattern library and effect library for every 8 values
CH10	automatic trigger	0 ~ 26	Default self-propelled speed
		27 to 127	Choose self-propelled speed
	voice trigger	128-255 _	Select voice control sensitivity

### 2. PRO/professional mode : 34CH

	aisle	channel value	control content
CH1	switch light	0	turn off the lights

		1 ~ 255	Turn on the light 1-100%
CH2	strobe	1 ~ 255	Strobe speed selection
CH3	pattern size	0 ~ 255	Pattern selection from large to small
CH4	horizontal position	0 ~ 255	Horizontal position selection, the value is 128 is the middle position, only valid when CH3 is 1-255
CH5	vertical position	0 ~ 255	Vertical position selection, the value is 128 is the middle position, only valid when CH3 is 1-255
CH6	pattern file	0 ~ 255	Select a pattern file from the pattern library file
CH7	color	0 ~ 63	Fixed color selection
		64 ~ 95	Fixed color/color changing effect speed selection
		96 ~ 127	Color changing effect speed selection
		128 ~ 159	Color-changing effect speed selection / flowing water effect speed selection
		160 ~ 191	Water effect speed selection
		192-223 __	Water effect speed selection
		224 ~ 255	Fading effect speed selection
CH8	line scan speed	0 ~ 127	Line scan speed selection
	point scan speed	128 ~ 255	Point scan speed selection
CH9	Pattern Library and Effect Library	0 ~ 255	Choose a pattern library and effect library for every 8 values
CH10	automatic trigger	0 ~ 26	Default self-propelled speed
		27 to 127	Choose self-propelled speed
	voice trigger	128-255 _	Select voice control sensitivity
CH11	Rotate Z	1 ~ 127	Rotate Z angle selection
		128 ~ 255	Rotate Z speed selection
CH12	Rotate X	1 ~ 127	Rotate X Angle Selection
		128 ~ 255	Rotation X speed selection
CH13	Rotate Y	1 ~ 127	Rotate Y angle selection
		128 ~ 255	Rotate Y speed selection
CH14	move horizontally	1 ~ 127	Move position selection horizontally
		128 ~ 255	Horizontal movement speed selection
CH15	move vertically	1 ~ 127	Move position selection vertically
		128 ~ 255	Vertical movement speed selection
CH16	zoom	1 ~ 127	Zoom size selection
		128 ~ 255	Zoom speed selection
CH17	gradually painted	1 ~ 255	Fading speed selection
CH18	X wave	1 ~ 127	X wave speed selection
	Y wave	128 ~ 255	Y wave speed selection
CH19	strobe	1 ~ 255	Strobe speed selection
CH20	pattern size	0 ~ 255	Pattern selection from large to small
CH21	horizontal position	0 ~ 255	Horizontal position selection, the value is 128 is the middle position, only valid when CH3 is 1-255
CH22	vertical position	0 ~ 255	Vertical position selection, the value is 128 is the middle



			position, only valid when CH3 is 1-255
CH23	pattern file	0 ~ 255	Select a pattern file from the pattern library files
CH24	color	0 ~ 63	Fixed color selection
		64 ~ 95	Fixed color/color changing effect speed selection
		96 ~ 127	Color changing effect speed selection
		128 ~ 159	Color-changing effect speed selection / flowing water effect speed selection
		160 ~ 191	Water effect speed selection
		192-223 __	Water effect speed selection
		224 ~ 255	Fading effect speed selection
CH25	line scan speed	0 ~ 127	Line scan speed selection
	point scan speed	128 ~ 255	Point scan speed selection
CH26	Pattern Library and Effect Library	0 ~ 255	Choose a pattern library and effect library for every 8 values
CH27	Rotate Z	1 ~ 127	Rotate Z angle selection
		128 ~ 255	Rotate Z speed selection
CH28	Rotate X	1 ~ 127	Rotate X Angle Selection
		128 ~ 255	Rotation X speed selection
CH29	Rotate Y	1 ~ 127	Rotate Y angle selection
		128 ~ 255	Rotate Y speed selection
CH30	move horizontally	1 ~ 127	Move position selection horizontally
		128 ~ 255	Horizontal movement speed selection
CH31	move vertically	1 ~ 127	Move position selection vertically
		128 ~ 255	Vertical movement speed selection
CH32	zoom	1 ~ 127	Zoom size selection
		128 ~ 255	Zoom speed selection
CH33	gradually painted	1 ~ 255	Fading speed selection
CH34	X wave	1 ~ 127	X wave speed selection
	Y wave	128 ~ 255	Y wave speed selection

● **Maintenance:**

1、 Please use a professional glass cleaner every month and clean the lens of the light outlet with a flannel cloth to ensure the maximum brightness output of the laser. Be careful not to wipe the lens with a wet cloth or other chemical solvents. The number of cleanings depends on the operating frequency of the lamp and the surrounding use Depends on the environment

2、 In order to ensure the heat dissipation of the laser, please clean the bottom radiator and fan regularly, and prevent them from being blocked by the outside.

3、 **Warranty period:** This product is guaranteed for one year from the date of purchase.

**Warranty Regulations:**

1. During the warranty period, if you use this product under normal conditions, you can enjoy free maintenance services at the designated service center or the factory when you present this warranty card and the purchased ticket sample (copy) according to the content of this warranty regulation.

2. During the warranty period, paid maintenance services will be implemented in the following cases.

(1) Failure to issue a valid warranty card;

(2) There are omissions, alterations and no sales name on the warranty card;

(3) Failure and damage caused by force majeure;

(4) Faults and damages caused during transportation and handling;

(5) Failure and damage caused by failure to follow the instructions;

(6) Faults and damages caused by dismantling, repairing or modifying the product without the authorization of the manufacturer or by non-professionals.

(7) Faults caused by the use of control systems not approved by the factory or not matched by the factory.

(8) Consumables (light source)

3. Please keep this warranty card properly, it will not be replaced if it is lost.

● **Statement :**

1、 When this product leaves the factory, its performance is intact and its packaging is complete. All users should strictly abide by the warnings and operating instructions stated above. Any damage caused by misuse is not covered by the company's warranty, and the manufacturer is not responsible for failures and problems caused by ignoring the operation manual.

2、 The right to interpret the relevant matters stated in this manual belongs to the company.

## Warranty Card

<b>product name</b>	<b>Product number</b>

<b>end user</b>
<b>company name:</b>
<b>address:</b>
<b>Contact:</b>
<b>Telephone:</b>

<b>Production Date</b>	<b>user purchase date</b>
------------------------	---------------------------

--	--

<b>Sellers</b>	
<b>Contact:</b>	
<b>Telephone:</b>	
	<b>stamp</b>

**Note: The above blanks must be filled and stamped by the end user and the seller truthfully, otherwise the warranty will be void.**