

# J5 5W APP LASER LIGHT PRODUCT MANUAL



Thank you for purchasing RGB laser light, for your personal safety and better use of the product, please read this manual carefully before use, lest incur any personal injury or damage to the projector

## ● Package list:

When you unpack the case, please take time to examine the items as follow:

- Projector 1
- Power cord 1
- User manual 1

## ● Technical Parameters:

- Rated Voltage: AC100~240V
- Rated frequency: 50Hz~60Hz
- Power consumption: <200W
- Laser power: 500mw~5000mw
- Patterns: 2000pcs latest laser patterns
- Scanning: 15kpps vibratory mirror system
- Scanning angle: ±20 degrees
- Channel: 6/34CH
- Control mode: DMX-512signal control, music control, automatic
- Cool system: fan

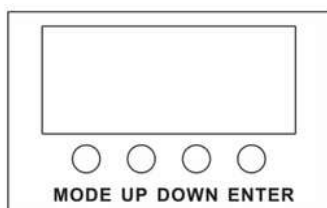
## ● Instructions:

After opened the box, check whether the laser show device has been damaged by the rough transportation or not, such as the screw is loosen, reflective lens is broken. Please check before connecting power. Check the lighting placement is correct and secure, check the power voltage is the same with this product, or damage to the lamp is not an example of warranty.

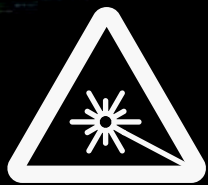
The device is A-grade protection device. While using this laser lighting, green and yellow wire has to connect the ground properly by professionals. Please examine the electrics and voltage before connecting the power. We suggest customer apply 110V/230V or a transformer. 20 seconds after powered on the projector, it will self-check for several minutes and then can be used.

Because the solid semiconductor laser generator got its own characteristic, please terminate it for 10 minutes after have displayed it for 30 minutes. This kind of protection can make sure the laser diodes work properly in the future operation. Please to avoid being interfered by other signals (such as wireless interphone & high radiated source) while the lighting is performed by DMX512 mode.

## ● LCD Display:



- MENU It is to switch the menu
- UP It is to choose the function
- DOWN It is to choose the function
- ENTER It is to confirm/save/ go to the next function



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**1.The main menu list**

**Note 1.** When the 25 pin ILDA port is connected to the computer software signal, the lamp automatically recognizes and switches to the software control

**Note 2,** if the lamps and lanterns are connected to the computer software through the network port, please manually set the mode settings in the menu to the network port mode (refer to the following table)

**2. SelectMenu/Menu selection.**

You can select the desired function menu by rotating the menu left or right, and the menu is selected when it is high, and you can select the function by pressing OK/return. The function is selected by pressing the OK/return button

二、LCD menu functions are as follows:

1	address code	1-512	address code settings
2	channel settings	16CH/20CH	16CH is the lean channel mode, and 20CH is the professional channel mode
3	mode settings		0 DMX --- console mode
			1 Netmask --- Switch to Netmask Puncture Software Control
			2 Random - all programs are randomized, the
			3 Lines - Lines Program
			4 animation - animated programs
			5 Text --- play a text program (text is input by mobile phone APP or applet)
			6 Programming --- playing programming programs (programs are programmed by mobile phone APP or applet)
			7 Hand drawn --- play hand drawn patterns (patterns are drawn by mobile phone APP or applet)
			8 Landmarks - Outdoor and Landmarks Program
9 Standby - the luminaire is in standby with the light turned off			
4	Playback speed	0	Voice-activated
		1--99	Self-propelled speed (slow to fast)
5	Pattern size	10-100	Pattern size
6	Pattern phase	X+/Y+	Pattern phase
7	Dimmable red light	0-100	Red light dimming (analog modulation effective)
8	Green light dimming	0-100	Green light dimming (analog modulation effective)
9	Dimming blue light	0-100	Blue light dimming (analog modulation effective)
10	modulation mode	TTL/Analog	modulation mode
11	Language settings	Chinese/English	Language settings
12	software version	VER2.X	VER2. X is the software version





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**Note: Hidden menu (long press menu key to enter hidden menu, after setting, long press menu key to exit)**

1. Galvo speed 15-30K Galvo speed setting (please set carefully to avoid exceeding the actual galvo speed)
2. Color Setting Monochrome/Full Color Set the light source to monochrome or full color
3. Single-point protection On/Off Turns on and off the single-point protection of the laser galvanometer
4. voice-activated sensitivity 0-100 voice-activated sensitivity adjustment
5. Backlight Setting Always on/Delayed off Always on:Screen is always on Delayed off:15 seconds Screen is off
6. Restore factory OK Long press 3 seconds to restore factory settings

**DMX-512 Channel Description:**

**1. Channel mode: 16CH**

Passage		channel values	controlling the content
CH1	Total Dimming	0~255	Master switch/dimmer (dimming function, analog modulation active)
CH2	Strobe	0~9	Non-strobing
		10~255	Strobe rate from slow to fast
CH3	Colors	0-34	White-Red-Blue-Purple-Cyan-Yellow-Green (Fixed color selection)
		35-39	Overall color change (flow rate is controlled by CH4)
		40-44	Initial color of pattern (flow speed is controlled by CH4)
		45-46	Seven rainbow colors (flow speed is controlled by CH4)
		47-66	2 Segmental color selection 4 numerical step (flow speed is controlled by CH4)
		67-96	3 Segmental color selection 4 numerical step (flow speed is controlled by CH4)
		97-126	4 Segmental color selection 4 numerical step (flow speed is controlled by CH4)
		127-150	8 Segmental color selection 4 numerical step (flow speed is controlled by CH4)
		151-174	16 segment color selection 4 numerical step (flow speed is controlled by CH4)
		175-214	32 segment color selection 4 numerical step (flow speed is controlled by CH4)
		215-247	Analog color mixing Total 32 analog color mixing (analog modulation effective)
248-255	Color gradient (flow speed is controlled by CH4)		
CH4	Color flow rate	0-9	The color doesn't run
		10-127	The colors are flowing positively, from slow to fast
		128-255	The colors run in reverse, slow to fast



## 8. Quick Reference Table

Operating Mode	LCD Indicator	Display Example	Function
Internal Random Mode	{INTR}	{AL }	Runs built-in effects randomly.
Internal Scene Mode	{INTR}	{P###}	Runs a selected built-in scene.
Internal Sequence Mode	{INTR}	{SE##}	Runs a selected built-in sequence.
Standard DMX Mode	{DMX}	{A###}	Controls the fixture through 34CH DMX mode.
Simplified DMX Mode	{INTR} + {DMX}	{A###}	Selects built-in scenes through 5CH DMX mode.
System Setting Mode	{SET}	Setting code	Adjusts fixture parameters.
Sound-Activated Mode	{SND}	—	Controls pattern movement according to sound.
Selected Setting	{SEL}	—	Indicates that the displayed setting is currently selected.
APP Mode	{APP}	—	Reserved function; unavailable on the current model.

## 9. Important Notes

- Always confirm the correct DMX channel mode before connecting the fixture to a DMX controller.
- When changing projection direction or projection range settings, verify the output area before beginning a show.
- The {SEL} indicator confirms that the displayed option is selected for adjustment.
- APP control is not available unless the fixture is supplied with a compatible APP-enabled configuration.

### ● Channel functions:

This laser has adopted the standard DMX-512 signal, there are 6CH and 34CH mode for this light. 6CH content shown as follows:

Channel	Function	DMX value	Content
CH1	Light OFF/ON	0	OFF
		1-255	ON
CH2	Movement sound/auto control	0--64	Auto play single scene, CH4 can select scene through CH3 to select effect library
		65-127	Automatically loop all scenes in the selected effect library, and select the effect library through CH3
		128-191	Sound control plays single scenes. You can select scenes through CH4 and select effect library through CH3
		192-255	Sound control loop plays all scenes in the selected effect library. Select the effect library through CH3
CH3	Effect library selection(15 values as one library)	0--15	1 library
		16--31	2 library
		.....	.....
		192--223	15 library
		224--255	0 library
CH4	Scene selection	0--255	Every value is corresponding to each pattern, value is much bigger than the pattern, system marked it as the biggest pattern



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CH5	Graphic Selection	0-255	Pattern selection (pattern grouping is controlled by CH6)
CH6	Graphics group selection	0-24	Built-in Static Graphics Group 1 (Basic Geometric Patterns)
		25-49	Built-in Static Graphics Group 2 (Basic Geometric Patterns)
		50-74	Built-in Static Graphics Group 3 (Edge Highlight Pattern)
		75-99	Built-in Static Graphics Group 4 (Punching Graphics)
		100-124	Reservations
		125-149	ILDA Animation Group 1
		150-174	ILDA Animation Group 2
		175-199	ILDA Animation Group 3 (Reserved)
		200-224	ILDA Animation Group 4
		225-255	Hand drawn graphics (graphics are edited by APP)
CH7	Pattern size	0-255	Pattern size is selected manually, the
CH8	Automatic scaling of patterns	0-15	Pattern size selection
		16-55	Selecting from small to large speeds, the
		56-95	Choose from large to small speeds
		96-135	size scaling speed selection
		136-175	two-point irregular cyclic scaling
		176-215	Three-quarter irregular cyclic scaling
		216-255	Quadratic Irregular Cyclic Scaling
CH9	The pattern rotates around the center of the	0-127	rotation angle selection
		128-191	positive rotational speed selection
		192-255	counter-rotating speed selection
CH10	Pattern rotates around the X axis	0-127	Horizontal flip position selection
		128-255	Horizontal flip speed selection
CH11	Pattern rotates around Y axis	0-127	Vertical flip position selection
		128-255	Vertical flip speed selection
CH12	Horizontal movement	0-255	Horizontal position selection
CH13	Vertical movement	0-255	Vertical position selection
CH14	Wave in X direction	0-1	No waves
		2-255	Wave amplitude and speed adjustment (amplitude from small to large, speed from slow to fast, every 32 values of a gear, a total of 8 gears)



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CH15	Built-in dynamic effects	0-1	No function
		2-202	Built in effect radio selection (color CH3 control, CH3=0 default color, speed CH16 control)
		203-214	Line effect (color CH3 control, CH3=0 default color, speed CH16 control)
		215-224	Animation effect (color CH3 control, CH3=0 default color, speed CH16 control)
		225-234	Outdoor landmark effect (color CH3 control, CH3=0 default color, speed CH16 control)
		235-255	All effects play randomly (color CH3 control, CH3=0 default color, speed CH16 control)
CH16	Built-in speed of dynamic effects	0-1	the default speed of the system
		2-255	Manual Adjustment Built-in effect speed from slow to fast

## 2. Channel mode 20CH

Passage		channel values	controlling the content
CH1	Total Dimming	0~255	Master switch/dimmer (dimming function, analog modulation active)
CH2	Dimmable red light	0-255	Red linear dimming
CH3	Green light dimming		green linear dimming
CH4	Dimming blue light		blue linear dimming
CH5	Strobe	0~9	Non-strobing
		10~255	Strobe rate from slow to fast
CH6	Colors	0-34	White-Red-Blue-Purple-Cyan-Yellow-Green (Fixed color selection)
		35-39	Overall color change (flow rate is controlled by CH4)
		40-44	Initial color of pattern (flow speed is controlled by CH4)
		45-46	Seven rainbow colors (flow speed is controlled by CH4)
		47-66	2 Segmental color selection 4 numerical step (flow speed is controlled by CH4)
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		248-255	Color gradient (flow speed is controlled by CH4)



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CH7	Color flow rate	0-9	The color doesn't run
		10-127	The colors are flowing positively, from slow to fast
		128-255	The colors run in reverse, slow to fast
CH8	Graphic Selection	0-255	Pattern selection (pattern grouping is controlled by CH6)
CH9	Graphics group selection	0-24	Built-in Static Graphics Group 1 (Basic Geometric Patterns)
		25-49	Built-in Static Graphics Group 2 (Basic Geometric Patterns)
		50-74	Built-in Static Graphics Group 3 (Edge Highlight Pattern)
		75-99	Built-in Static Graphics Group 4 (Punching Graphics)
		100-124	Reservations
		125-149	ILDA Animation Group 1
		150-174	ILDA Animation Group 2
		175-199	ILDA Animation Group 3 (Reserved)
		200-224	ILDA Animation Group 4
225-255	Hand drawn graphics (graphics are edited by APP)		
CH10	Pattern size	0-255	Pattern size is selected manually, the
CH11	Automatic scaling of patterns	0-15	Pattern size selection
		16-55	Selecting from small to large speeds, the
		56-95	Choose from large to small speeds
		96-135	size scaling speed selection
		136-175	two-point irregular cyclic scaling
		176-215	Three-quarter irregular cyclic scaling
		216-255	Quadratic Irregular Cyclic Scaling
CH12	The pattern rotates around the center of the	0-127	rotation angle selection
		128-191	positive rotational speed selection
		192-255	counter-rotating speed selection
CH13	Pattern rotates around the X axis	0-127	Horizontal flip position selection
		128-255	Horizontal flip speed selection
CH14	Pattern rotates around Y axis	0-127	Vertical flip position selection
		128-255	Vertical flip speed selection



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CH15	Horizontal movement	0-255	Horizontal position selection
CH16	Vertical movement	0-255	Vertical position selection
CH17	Wave in X direction	0-1	No waves
		2-255	Wave amplitude and speed adjustment (amplitude from small to large, speed from slow to fast, every 32 values of a gear, a total of 8 gears)
CH18	Patterned gradient drawing	0-1	No gradient drawing
		2-63	Manual Graduated Drawing 1
		64-127	Manual Graduated Drawing 2
		128-153	Auto Gradient (add)
		154-179	Auto Gradient (minus)
		180-205	Auto Gradient (Increase then Decrease - Reverse)
		206-255	Automatic gradation (incremental and decremental - isotropic)
CH19	Built-in dynamic effects	0-1	No function
		2-202	Built in effect radio selection (color CH3 control, CH3=0 default color, speed CH16 control)
		203-214	Line effect (color CH3 control, CH3=0 default color, speed CH16 control)
		215-224	Animation effect (color CH3 control, CH3=0 default color, speed CH16 control)
		225-234	Outdoor landmark effect (color CH3 control, CH3=0 default color, speed CH16 control)
		235-255	All effects play randomly (color CH3 control, CH3=0 default color, speed CH16 control)
CH20	Built-in speed of dynamic effects	0-1	the default speed of the system
		2-255	Manual Adjustment Built-in effect speed from slow to fast

## LightElf (WeChat Mini Program & App) User Manual

### i. Software installation (WeChat mini program /Android / IOS APP)

(\*\* You need to grant the software permission to access Bluetooth and positioning, otherwise it cannot be used normally. \*\*)

#### 1. WeChat mini program:

Open WeChat, in the mini program scan the QR code below to use it



#### 2. Android App (Choose one of the following two installation methods)

1) APP Download address: <https://www.lanzouh.com/s/lightelf>

Or use WeChat to scan the QR code and choose to open the download in the default browser. There is no need to register a network disk account during the download process.



2) Log in to the Google Play Store and search for "LightElf" to install it



1. IOS APP

Search for LightElf in Apple's official App Store and install it.

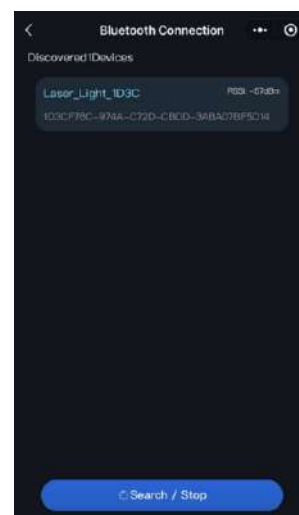


1. After the software starts successfully, the main interface is as shown on the right.



#### i. Connect laser light equipment

1. Please turn on the laser light equipment before use
2. Open the software and click "Click Me To Connect" on the main interface.
3. Select Laser\_Light\_xxxx in the Bluetooth list
4. Successfully connected to device



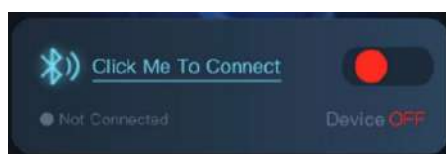
### i. Software settings

1. The address code, display range and XY related parameters of the laser light device can be set
2. The menu language of the software can be changed at the bottom



### i. Turn the laser on and off

1. Click the switch button on the right side of the main interface. After turning it on, the words "Device ON" will be displayed.
2. Click the switch button on the right side of the main interface. After closing, the words "Device OFF" will be displayed.




### i. Introduction to hand-drawn graffiti function


Click the hand-drawn graffiti menu in the main interface to enter. Here you can control the display effect of the device by manually drawing patterns, entering text, or selecting built-in patterns.

A. Selection of color: The upper part of the interface is the color selection area. Click the different color buttons to select the color of the laser drawing.

B. Draw patterns: The middle part of the interface is the pattern control area. In this area you can do the following operations


#### 1. Manually draw patterns

- 1) Click the icon  to switch to the manual drawing pattern function
- 2) Draw the pattern you want in the middle large screen area with your fingers

- 1) You can also click the icon  to add the picture background to make the drawing easier



#### 1. Text input

- 1) Click the icon  to switch to the text input function
- 2) Enter text in the input box
- 3) Use your fingers to drag and drop in the middle of the screen
- 4) You can also select different fonts on the left side of the input box (Note: Mini Program Version the font library is limited, some text or symbols may not be included,


#### 1. Select the built-in pattern

Sliding pattern list View all built -in patterns

After clicking the pattern, you can drag and drop with your fingers in the middle of the screen





### A. Use logo images to generate patterns

1. Click the icon  , select a logo picture
2. Actable and moved pictures make the logo area display complete
3. Click the "Identification Patterns" button
4. After the picture recognition is successful, click the OK button
5. Note: The default edge mode, the edge line of the pattern of this mode;
6. In addition, the pattern skeleton extract mode; the user can switch mode by itself to achieve the best effect



### A. Pattern editing

1. Select the pattern: click the editor's small circle  at the bottom right of the middle area, then slide your fingers on the pattern drawn and you can choose
2. Mobile pattern: The finger moves in the middle area, and the selected pattern moves with it
3. Scaling pattern: Use two fingers to slide in the middle area, and the selected pattern will be zoomed in
4. Modify the color: click the button in the color of the above color to select the button in the area, and the selected pattern will change the color
5. Delete the pattern: When the pattern is selected, the delete button will appear at the bottom left  , click to delete the pattern

### A. Graphic operation and parameter configuration

1. Clear and retreat buttons can be cleared on the drawn patterns. After clearing, you can re -draw the pattern
2. Click the configuration button to perform the parameter configuration. The size, rotation angle, flipping, horizontal vertical motion of the graphic, the parameter of the configuration on the left side, the up and down on the right side to change the parameter value, click the OK button to save the parameters for saving the parameters to save
3. After the pattern is drawn, click the sending button to display the pattern effect on the device

### i. Text playback function introduction

**Click the text playback menu to enter in the main interface. Here you can set the text display effect. You can support up to 100 characters**

- A. The above part is the color selection area, click the corresponding button to select the color of the Chinese text
- B. The middle part is the text setting area (as shown in the figure)
1. Click to select fonts on the left
  2. In the middle of the text input box
  3. The number on the left side of the text input box represents the current text group
  4. Click "+" on the right side of the input box to add text grouping, support up to 4 groups
  5. Click the time of the group playback time to modify the time
  6. After the text input is completed, click the preview button in the lower left corner to generate a preview in the middle of the screen Effect
  7. Click the sending button to display the text effect on the device



### C. There are four configuration parameters below

1. Text accuracy: regulate text display accuracy to achieve the best effect. Some models do not support this function
2. Text size: adjustment text size can change the size of the text on the device
3. Display vision: adjust the display area size (the projection distance is long and near adjustment and use)
4. Flowing speed: The speed of adjusting the flowing speed can change the speed of the text from left to right.





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## i. Personality programming

Click the personalized programming menu to enter in the main interface. By editing the pattern of each scene, Let the laser equipment be played in order to meet your personalized needs in order to meet your personalized needs. A maximum of 20 scene editors can be supported.

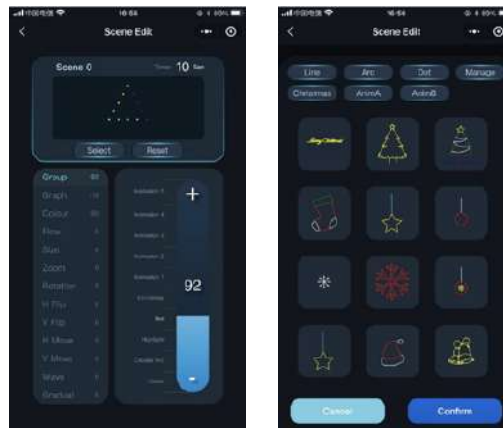


## A. Scene management

1. Click the new scene button at the bottom of the page
2. Click the deletion icon on the left in the scene list to delete the scene
3. Click on the number on the right in the scene list to modify the duration of the scene playback
4. Click the corresponding editor button in the scene list to enter the scene editing page

## B. Scene editing

1. Click on the top of the page to select the graphical button to pop up the selection interface of various graphics, a total of 7 groups, this includes dynamic graphics. Click a certain picture the shape can be seen in real time on the device effect. Select to complete the click OK button to save.
2. You can also select the channel parameters below to select graphic, select the picture in the channel menu on the left form group or graphic, and on the right skateboard swipe to select
3. In addition to the graphic selection, you can also set it the same display effect, just select the parameters on the left and then slide on the right skateboard.



## i. Built -in program playback

The system has built -in hundreds of light programs for you to choose from, you can play without any editors. You can play all the built -in programs or specify the program playback.

### A. Random playback: All programs are randomly played

1. Click the random playback menu in the main interface to enter
2. Click the color button above to select the color of the laser
3. Play mode supports the sliding rods below the two modes of self -walking and voice control can adjust the speed and the sensitivity of the voice control

### B. Line playback, animation playback, Christmas playback, outdoor show playback

1. Click the corresponding program menu in the main interface to enter
2. The color and playback mode settings in the show refer to the random play page
3. Select the cycle to indicate that the 50 programs under this classification will be played in order
4. You can also check and play some of the programs, just click to play the show

