

# SLS

Sound  
Light  
Spain

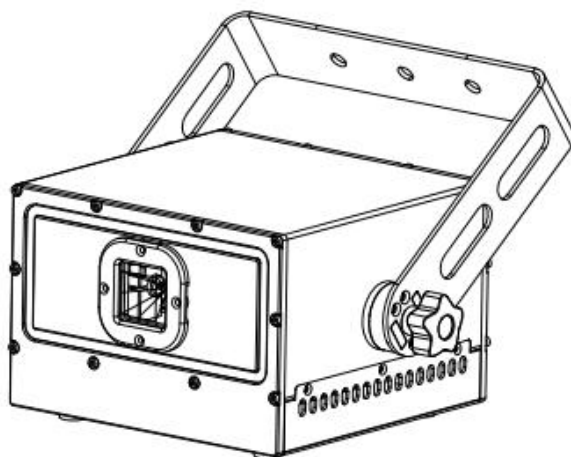


LIGHTING

LIGHTING

## SLS-OL5W

# USER MANUAL



## RGB STAGE LIGHT

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Please read this manual carefully before using the product

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## **1. Safety Guidance**

Thank you for choosing our products. For your safety, please read this manual carefully before operation. This manual includes installation and use information.

The equipment is packaged in good condition when leaving the factory. Please operate according to the user manual. The machine failure caused by man-made reasons is not covered by the warranty.

1. When using the product, please open the light and check it carefully to ensure that there is no damage caused by transportation..
2. Don't let children operate this machine.
3. Use safe ropes when fixing the equipment, and hold up the bottom when moving the light.
4. The equipment must be installed in a well-ventilated place .
5. Ensure that the ventilation holes are unobstructed to avoid overheating when the light is running.
6. Before operation, make sure that the power supply voltage matches the power supply voltage required by the equipment.
7. Please ground the conductor to prevent electric shock.
8. In case of fire, do not place combustible items next to light when they are running.
9. Please carefully check whether the power cord is damaged before turning on the light. If it is damaged, replace it immediately.  
To avoid electric shock or fire, avoid flammable liquid, water, metal and other electrical conductors entering the light. If any body enters the light, please cut off the power supply immediately .
9. Avoid operating the light in a dirty and dusty environment, and clean and

maintain the light regularly.

11. Do not touch the wire when the light is running to prevent electric shock.

12 .Avoid entanglement of the power cord with other wires.

13. Do not open the light housing without authorization

14. Please cut off the power when the light is not used for a long time or for maintenance.

15 .Do not look directly at the light when it is running.

## **2. Packing List**

This series of products are packed in standard carton, air carton is optional, please read this manual carefully before using. Follow operating rules to avoid damage to light or bodily injury. Please handle the products carefully after receiving them, and check whether the products are damaged during transportation. Open the cover of the box, take out the relevant accessories in the box, take out the light, and place the lamp on a horizontal table to facilitate related operations. Note: Do not squeeze plastic parts to avoid breakage or distortion. Check the parts as follows:

Stage light 1pc    cable 1pc    manual 1pc

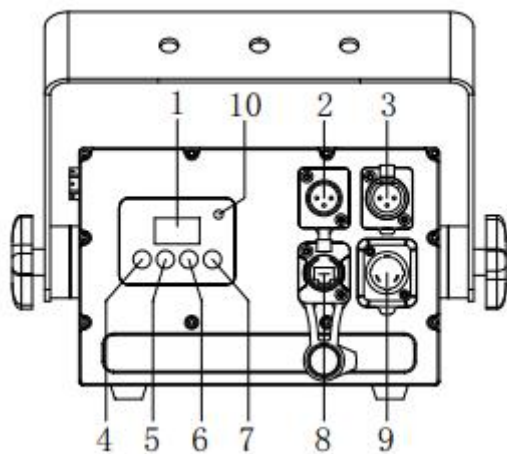
### **3. Installation Notes**

1. When install this equipment please make sure there's no flammable surfaces (decorated things, etc) within at least 2.5M and maintain minimum distance of 0.5M from the equipment to the walls.
2. Before installation, please confirm whether the power supply voltage you are using matches the voltage marked by the light.
3. Make sure that the ventilation fan and exhaust passage are not blocked by other equipment or decorative materials, such as newspapers, tablecloths, curtains, etc.
4. The equipment should be fixedly installed. To ensure the stability of its installation point, at least a load-bearing structure that can withstand more than ten times the weight of the product.
5. For safety reasons, this machine should be connected to a main socket with a ground wire.

### **4. Technical Parameter**

1. Power supply: AC 100 ~240V 50/60Hz
2. Rated Power: 150W@220V
3. Working mode: Auto/DMX512/ ILDA /master-slave
4. DMX Control Channel: 5CH/17CH/18CH/27CH/28CH/53CH
5. Cool system: Intelligent air cooling system
6. Working environment: outdoor
7. Working temperature: -20℃ - 35℃
8. N.W./G.W.: 5.7kg/14kg
9. Package size: 35\*34.5\*35CM/70\*37\*24CM

**5. Light Control Panel**



NO.	Interface name	
1	Menu display window	
2	XLR 3 pin DMX-512 input interface	
3	XLR 3 pin DMX-512 output interface	
4	MENU	
5	UP	
6	DOWN	
7	ENTER	
8	RJ45-ILDA	
9	POWER AC100~240V (IN/OUT)	
10	Red indicating light	NO light/ normal light, The device system no work.
		Flash : The equipment system is running normally

	Green indicating light	OFF: no DMX512 signal
		Flash: received DMX512 signal
	Blue indicating light	NO light: No external ILDA signal detected
		Normal light: ILDA switch is turned on or external signal is connected
		Flash:The external ILDA signal is detected and the light output

## 6. Light Setting

Using the touch button and LCD menu display function, the menu operation is simple and easy to use, and the system software is automatically loaded when the system is turned on, and the main menu interface is displayed.

Use the **▲UP**、**▼DOWN** buttons to select the required function menu icon.

Press the **●ENTER**、**○MENU** buttons to confirm the selected function or return to the previous menu. (After the screen is powered on, there is no key operation for a long time, and the screen enters the standby state only by long pressing the ENTER button to wake up and unlock)

Press the Menu button. The main functions are as follows:

Menu		Function
Operation mode	DMX-512	
	Auto Trigger	
	Test Mode	
	ILDA Input	
	User Mode	

DMX Settings	DMX-512	1-512
	CH Mode	5CH/17CH/18CH/27CH/28/53CH (Default: 27CH)
	RDM	RDM (ON, OFF)
View DMX Value	CH1~CH53	View channel mode The value corresponding to the selected channel mode
Auto Trigger	0~85	0 all loop 1 Scene loop 2 Animation loop 3-85 cue play
	Master/Slave	(master, slave)
Test Mode	Enable Laser	No/Yes
	Test Pattern	1~6
	Master Size	000-255
	Light Color	RGB/R/G/B
	Invert X	No/Yes
	Invert Y	No/Yes
ILDA Input	Select this mode to receive external ILDA signal only (ILDA indicator light is steady - blue), other mode operating devices do not emit light.	
User Mode	Value setting (CH1-CH28 can customize the channel value of the luminaire)	Program built-in console, restore factory Settings to save data, such as clear data press Clear reset option



Advanced Setups	Master Size	000-255
	X Scale	000-255
	Y Scale	000-255
	Invert X	No/Yes
	Invert Y	No/Yes
Color Settings	Color	RGB/Single
	Red	000-255
	Green	000-255
	Blue	000-255
	Brightness	000-255
Display Setups	Language	English/Chinese
	Screensaver	30-120s
Scan Settings	Scan Kpps	15-40K
	Scan-safety	Off/On
Defaults	System Reset	No/Yes
	Factory	Used by factory tech.
Device Status	X Scan Error	will report an error, and the device will not emit light in any mode
	Y Scan Error	
	RS485 Error	The reason for the error is that the control board is not powered on or the chip is bad or the signal line is faulty
	Hardware	The reason why the control board

	Software	cannot read is that the control board is not powered on or the chip is bad or the signal cable is faulty
Device Info	Mode	
	Channel	
	DMX addr	
	SWFlash	
	EFFECT	
	Temp	

## 6.1 OLED display control panel function menu setting ,as following:

### **DMX-512 mode:**

Select the console mode to display the current, select the DMX-512 mode after the selection is completed, press the MENU button to return to the previous menu, select DMX Config DMX settings, enter the DMX-512 address code selection, press the ENTER key to confirm and use the UP/DOWN button to Select 1-512 address code, use the number of channels to carry out DMX control according to the desired effect, there are six channel modes: 5CH/17CH/18CH/27CH/28/53CH channel, you can also choose RDM / tick to open, cross to close RDM is enabled by default. After setting, if you need to view the value of each channel, you can go to the view channel in the menu to view the corresponding value of the channel. The console mode is the slave mode at the same time, if the DMX512 console signal is connected, it is the console mode.

**Auto Mode:**

Select automatic mode, the current self-propelled mode will be displayed on the display menu, after selecting (Auto Mode) self-propelled mode, press the MENU button to return to the previous menu, select (Auto Trigger) self-propelled effect, use UP/ DOWN button to select 000-085 built-in effect modes. If you need to use the serial machine, select the master-slave mode (on/off). Self-propelled mode can be used as the master when the master-slave mode is turned on, and the slave is set to DMX-512 mode.

**ILDA mode:**

Select ILDA mode, the current device switches to ILDA mode, the lamp only receives the signal from the external controller, and the blue indicator light will flash.

**Test Mode:**

Select the lamp test mode, the current mode will be displayed on the menu, after the selection (Test Mode) test mode is completed, press the MENU button to return to the previous menu, select (Test Mode) test mode, using the test test is a special mode , can only be called after entering the test mode interface, press the ENTER button to select the test pattern through the UP/DOWN button to check whether there is a problem with the lamp.

**User Mode:**

Select the user mode, press the ENTER button to confirm, the current mode will be displayed on the display screen, press the MENU button to return to the previous menu after the selection mode is completed, select (User Mode) user mode and press the ENTER button to confirm, use the UP/DOWN button To select the corresponding function, press the ENTER button. Use the UP/DOWN button to select the value from 0 to 255. After setting, press the

ENTER button to confirm, and then press the MENU button to set the next function. Set the lamp by operating the required numerical effect and press ENTER Press the button to save, and press the MENU button to return to the previous menu.

### **Advanced Settings:**

Select advanced settings, press ENTER to confirm, the current mode will be displayed on the menu, use the UP/DOWN button to select the overall size setting, XY axis size setting; X axis forward and reverse setting, Y axis forward and reverse setting, XY replacement set up.

### **Color Settings**

Select advanced settings, press ENTER button to confirm, the current mode will be displayed on the display, use the UP/DOWN button to select monochrome or full color, overall brightness, red brightness, green brightness, blue brightness.

### **System Settings (System Config):**

Select system settings, the current mode will be displayed on the menu, use the UP/DOWN button to select the function, the K number of the galvanometer; after the galvanometer protection setting is enabled, turn off the light when the working angle of the galvanometer reaches a certain point, so as to avoid the output of the light source The pattern is a dot; it is used for internal debugging in the factory; restore the factory settings, and set the parameters to the initial settings when leaving the factory (the channel mode value and DMX512 address remain unchanged).

### **Device Status:**

Select the device status menu, press the ENTER button to confirm, the current mode will be displayed on the display screen, use the UP/DOWN button to

check: the XY axis reset error of the galvanometer (the X/Y galvanometer motor is stuck at a certain position and an error occurs , the device will not emit light in any mode); CPU version information shows whether the hardware control version is read. After viewing, press the MENU button to return to the previous menu.

### **Device Info:**

Select device information, the current mode will be displayed on the menu, display system related information, current device operation mode, current device channel mode, current device DMX512 address, effect version - the built-in effect version of the system, chassis temperature - internal temperature of the lamp, Device hardware information - batch of lamp program board, device software information - lamp program version, galvanometer reset detection.

## 7. Light Control mode

DMX512 control mode

### ①DMX512 control mode:

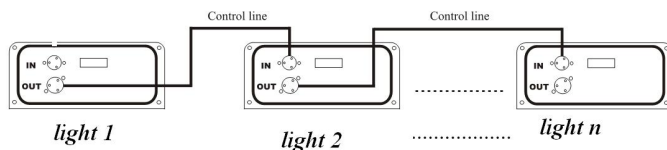
Set the DMX512 address code, the lamp will receive the standard DMX512 signal,

The screen wakes up when the DMX512 signal is connected, and the screen flashes ten times continuously when the DMX512 signal is disconnected.

### ②Master-slave mode:

Host—Enter the “Operation Mode” mode through the UP/DOWN button in the main menu, select the “Auto Mode” menu, and set the host to tick (the default is crossed), and the lamp is the host at this time. Press ENTER to confirm saving.

Slave—In the main menu, press the UP/DOWN button to enter the "Operation Mode" mode, select the "Auto Mode" menu, set the slave to cross (the default is to cross), and the lamp is a slave at this time. Press ENTER to confirm saving.

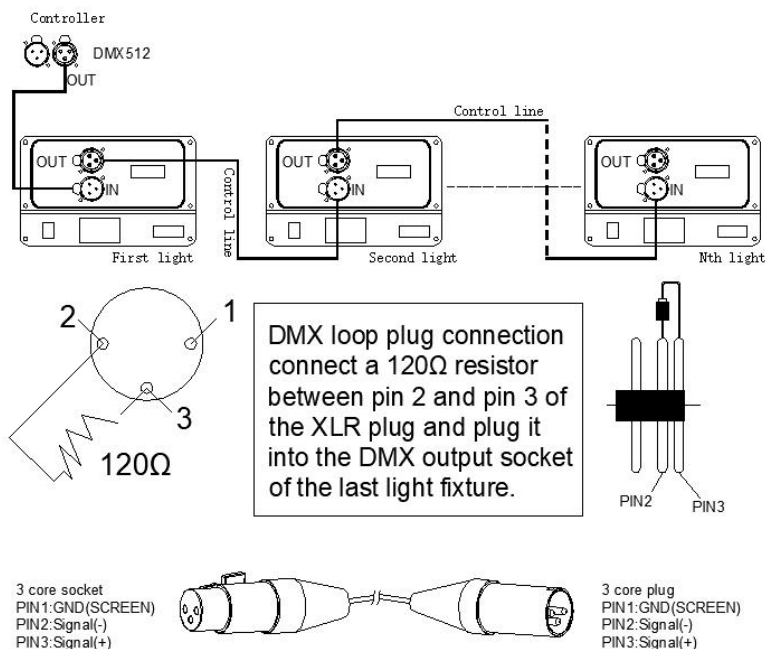


### Auto mode

When the lamp is not connected to an external signal, the device can choose to run automatically.

## 8. DMX512 Control

### 8.1 DMX512 Connect



1. In order to reduce signal errors and avoid signal weakening or interference during transmission, a  $120\Omega$  resistance loop can be inserted between the 2 cores and the 3 cores of the DMX output terminal of the last machine.

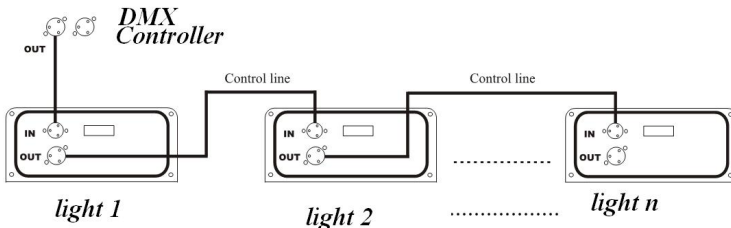
2. Connect the lamp with XLR signal, one end is connected to the output port of the lamp, and the other end is connected to the input port of the next lamp. XLR signal lines can only be used in series, not in parallel. DMX512 signal transmission speed is very fast. Damage to the signal line, weak welding, poor contact, etc., will affect the signal transmission and cause the system to shut down.

3. When a unit of machine power disconnect, DMX output or input connection is bypass, in order to maintain the DMX line and connectivity.
  4. Each lamp must have an address code, which can receive the information sent by the console, ranging from 1 to 512.
  5. The terminal of the DMX512 system needs to be equipped with a terminator to reduce signal transmission errors.
  6. The 3-pin XLR connector is more common than the 5-pin XLR:
- 3 pin XLR: PIN1: GND, PIN2: - Signal , PIN3: + Signal
- 5 pin XLR: PIN1: GND, PIN2: - Signal, PIN3: + Signal, PIN4/PIN5: No USE

## 8.2 DMX512 channel setting:

Press the MENU button to enter the menu mode, select the system setting/channel mode (5CH/17CH/18CH/27CH/28CH/53CH), select the channel mode you need, and press the ENTER key to confirm.

Connect the XLR control line from the DMX output of the controller to the DMX input of each luminance, and so on until all the luminance are connected, and then connect the loop plug to the signal output of the last luminance to complete the connection, as following :



When using any controller, each controller must have its own address.



Therefore, the address of the first light fixture is set to 1, the address code of the second light fixture is set to 6/18/19/28/29/54 (address code 1 of the first light fixture plus 5/17/18/27/28/53 channel), and the third light fixture is set to 11/35/37/55/57/107CH. And so on (this setting will depend on the different console, now just as a general rule).

Specific dmX-512 signal control mode address code switch settings are as follows:

Light NO.	Start Address	Display (ON)
1	1	1
2	6/18/19/28/29/54	6/18/19/28/29/54
3	11/35/37/55/57/107	11/35/37/55/57/107
⋮	⋮	⋮

### 8.3 DMX-512 Channel introduce:

The IPLAY mode of this lamp has 6 channel modes 5CH/17CH/18CH/27CH/28CH/53CH (channel mode can be viewed in dmx mode), the instructions are as follows:

#### 5CH

Channel		value	Content
CH1	Cue mode	0 ~ 31	OFF (blackout)
		32 ~ 63	Manual choose cue
		64 ~ 95	Auto trigger macro function
		96 ~ 255	Reserved
CH2	Dimmer	0 ~ 255	Brightness 0% ~ 100%
CH3	List (CH1: 32 ~ 63)	0 ~ 255	List :each 32 value be 1 list, 8 lists total.

	Macro effect (CH1: 64 ~ 95)		List: when the value is 0, all loop, 1-255 ,each 3 value be 1 macro function, 85 macro function total.
CH4	cue	0 ~ 15	OFF (blackout)
		16 ~ 255	each 12 value be 1 cue, 20 cues total.
CH5	zoom	0 ~ 255	100% ~ 0%

## 17CH:

Channel	Content		
CH1	Cue mode	0 ~31	OFF ( Blackout )
		32 ~63	Manual choose cue
		64 ~95	Auto trigger macro function
		96~255	Reserved
CH2	dimmer	0 ~255	0%- 100%
CH3	red	0 ~255	0%- 100%
CH4	green	0 ~255	0%- 100%
CH5	blue	0 ~255	0%- 100%
CH6	List (CH1: 32 ~ 63)	0 ~ 255	List :each 32 value be 1 list, 8 lists total.
	Macro effect (CH1: 64 ~ 95)		List: when the value is 0, all loop, 1-255 ,each 3 value be 1 macro function, 85 macro function total.
CH7	Cue	0 ~15	OFF (Blackout)
		16 ~255	Each 12 value be 1 cue, 20 cues total;
CH8	X position	0 ~255	Left- right ( 128 center )

CH9	Y position	0 ~255	Up - down (128 center)		
CH10	Rotation	0 ~255	Clockwise rotation (0°-360°)		
CH11	Zoom	0 ~255	100% - 0%		
CH12	X flip	0 ~255	Left - right		
CH13	Y flip	0 ~255	Up - down		
CH14	Color	0 ~7	default	8 ~15	white
		16 ~23	red	24 ~31	yellow
		32 ~39	green	40 ~47	cyan
		48 ~55	blue	56 ~63	purple
		64 ~127	Each 8 value be 1 color effect, 8 effects total		
		128 ~143	Macro 1	144 ~159	Macro 2
		160 ~175	macro 3	176 ~191	macro 4
		192 ~207	macro 5	208 ~223	macro 6
		224 ~239	macro 7	240 ~255	macro 8
CH15	Write in	0 ~255	100%-0		
CH16	Deformation	0 ~15	Invalid		
		16~223	Each 15 value be 1 macro effect, total 13 effects, (match CH11 zoom)		
		224 ~255	default		
CH17	Wave	0	invalid	1 ~39	macro 1
		40 ~79	macro 2	80 ~119	macro 3
		120 ~159	macro 4	160 ~199	macro 5
		200 ~255	macro 6		

## 18CH

Channel	Content				
CH1	Cue mode	0 ~31	OFF ( Blackout )		
		32 ~63	Manual choose cue		
		64 ~95	Auto trigger macro function		
		96 ~255	Reserved		
CH2	dimmer	0 ~255	0%- 100%		
CH3	List (CH1: 32 ~ 63)	0 ~ 255	List :each 32 value be 1 list, 8 lists total.		
	Macro effect (CH1: 64 ~ 95)		List: when the value is 0, all loop, 1-255, each 3 value be 1 macro function, 85 macro function total.		
CH4	Cue	0 ~15	OFF (Blackout)		
		16 ~255	Each 12 value be 1 cue, 20 cues total;		
CH5	X position	0 ~255	Left- right ( 128 center )		
CH6	Y position	0 ~255	Up - down ( 128 center )		
CH7	Zoom	0 ~255	100% - 0%		
CH8	X flip	0 ~255	Left - right		
CH9	Y flip	0 ~255	Up - down		
CH10	color	0 ~7	default	8 ~15	white
		16 ~23	red	24 ~31	yellow
		32 ~39	green	40 ~47	cyan
		48 ~55	blue	56 ~63	purple
		64 ~127	Each 8 value be 1 effect, 8 effects total.		
		128 ~143	macro 1	144 ~159	macro 2

		160 ~175	macro 3	176 ~191	macro 4
		192 ~207	macro 5	208 ~223	macro 6
		224 ~239	macro 7	240 ~255	macro 8
CH11	Deformation	0 ~15	invalid		
		16~31	Each 15 value be 1 macro effect, total 13 effects, (match CH7, CH16 zoom)		
		224 ~255	default		
CH12	Wave	0	invalid	1 ~39	macro 1
		40 ~79	macro 2	80 ~119	macro 3
		120 ~159	macro 4	160 ~199	macro 5
		200 ~255	macro 6		
CH13	X position	0	valid	1 ~32	macro 1
		33 ~64	macro 2	65 ~96	macro 3
		97 ~128	macro 4	129 ~160	macro 5
		161 ~192	macro 6	193 ~224	macro 7
		225 ~255	macro 8		
CH14	Y position	0	invalid	1 ~32	macro 1
		33 ~64	macro 2	65 ~96	macro 3
		97 ~128	macro 4	129 ~160	macro 5
		161 ~192	macro 6	193 ~224	macro 7
		225 ~255	macro 8		
CH15	Z rotation	0	invalid	1 ~32	macro 1
		33 ~64	macro 2	65 ~96	macro 3
		97 ~128	macro 4	129 ~160	macro 5
		161 ~192	macro 6	193 ~224	macro 7

		225 ~255	macro 8		
CH16	Zoom	0	invalid	1 ~32	macro 1
		33 ~64	macro 2	65 ~96	macro 3
		97 ~128	macro 4	129 ~160	macro 5
		161 ~192	macro 6	193 ~224	macro 7
		225 ~255	macro 8		
CH17	X flip	0	invalid	1 ~32	macro 1
		33 ~64	macro 2	65 ~96	macro 3
		97 ~128	macro 4	129 ~160	macro 5
		161 ~192	macro 6	193 ~224	macro 7
		225 ~255	macro 8		
CH18	Y flip	0	invalid	1 ~32	macro 1
		33 ~64	macro 2	65 ~96	macro 3
		97 ~128	macro 4	129 ~160	macro 5
		161 ~192	macro 6	193 ~224	macro 7
		225 ~255	macro 8		

## 27CH/28CH and 53CH

**(1) 27CH can't adjust the scanner Kpps speed.**

**(2) 28CH and 53CH is based on 27CH, extra add adjust the scanner Kpps speed function, better for camera shoot video.**

Channel		Channel value	Content
52CH	27CH/28CH		27CH single pattern, 52CH double pattern
	CH1	0~31	Blackout(off)
		32~63	Manual play

		64~95	Auto play macro function		
		96~255	Invalid		
	CH2	0~255	Dimmer Brightness 0% ~ 100%		
CH28	CH3	0~255	Red brightness 0% ~ 100%		
CH29	CH4	0~255	Green brightness 0% ~ 100%		
CH30	CH5	0~255	Blue brightness 0% ~ 100%		
CH31	CH6	0~255	Choose pattern page: Each 32 value be one page,total 8 page ( CH1=32-61 is valid)		
			Each 10 value be one macro function, total 25 cue ; ( CH1= 62-128 is valid)		
CH32	CH7	0~15	Blackout(OFF)		
		16~255	Choose pattern cue Each 12 value be one cue,total 20 cue		
CH33	CH8	0~255	Position X		
CH34	CH9	0~255	X axis fine position		
CH35	CH10	0~255	Position Y		
CH36	CH11	0~255	Y axis fine position		
CH37	CH12	0~255	Clockwise rotation (0°-360°)		
CH38	CH13	0~255	Fine rotation		
CH39	CH14	0~255	Zoom,From 100% to 0%		
CH40	CH15	0~255	From left to right (X rotation)		
CH41	CH16	0~255	From bottom to top(Y rotation)		
CH42	CH17	Choose color			
		0~7	Default color	8~63	7 pcs different color
		64~127	Each 8 value be one effect, total 8 effect		

		128~143	Macro 1	144~159	Macro 2		
		160~175	Macro 3	176~191	Macro 4		
		192~207	Macro 5	208~223	Macro 6		
		224~239	Macro 7	240~255	Macro 8		
CH43	CH18	0~255	Visible point 100%-0%-0				
CH44	CH19	Pattern Deformation (with zoom channel (14) (25))					
		0~15	Invalid	16~31	Macro 1	32~47	Macro 2
		48~63	Macro 3	64~79	Macro 4	80~95	Macro 5
		96~111	Macro 6	112~127	Macro 7	128~143	Macro 8
		144~159	Macro 9	160~175	Macro 10	176~191	Macro 11
		192~207	Macro 12	208~223	Macro 13	224~255	Default
CH45	CH20	Wave mode( when value=0 Invalid )					
		1~39	Macro 1	40~79	Macro 2	80~119	Macro 3
		120~159	Macro 4	160~199	Macro 5	200~255	Macro 6
CH46	CH21	Write in ( when value=0 Invalid )					
		1~42	Macro 1	43~84	Macro 2	85~126	Macro 3
		127~255	Strobe mode( from slow to fast)				
CH47	CH22	X horizontal position ( when value=0 Invalid )					
		0	Invalid	1~32	Macro 1	33~64	Macro 2
		65~96	Macro 3	97~128	Macro 4	129~160	Macro 5
		161~192	Macro 6	193~224	Macro 7	225~255	Macro 8
CH48	CH23	Y Vertical position ( when value=0 Invalid )					
		0	Invalid	1~32	Macro 1	33~64	Macro 2
		65~96	Macro 3	97~128	Macro 4	129~160	Macro 5
		161~192	Macro 6	193~224	Macro 7	225~255	Macro 8
CH49	CH24	Rotation ( when value=0 Invalid )					



		0	Invalid	1~32	Macro 1	33~64	Macro 2
		65~96	Macro 3	97~128	Macro 4	129~160	Macro 5
		161~192	Macro 6	193~224	Macro 7	225~255	Macro 8
CH50	CH25	Zoom ( when value=0 Invalid )					
		0	Invalid	1~32	Macro 1	33~64	Macro 2
		65~96	Macro 3	97~128	Macro 4	129~160	Macro 5
		161~192	Macro 6	193~224	Macro 7	225~255	Macro 8
CH51	CH26	X Rotation ( when value=0 Invalid )					
		0	Invalid	1~32	Macro 1	33~64	Macro 2
		65~96	Macro 3	97~128	Macro 4	129~160	Macro 5
		161~192	Macro 6	193~224	Macro 7	225~255	Macro 8
CH52	CH27	Y Rotation ( when value=0 Invalid )					
		0	Invalid	1~32	Macro 1	33~64	Macro 2
		65~96	Macro 3	97~128	Macro 4	129~160	Macro 5
		161~192	Macro 6	193~224	Macro 7	225~255	Macro 8
CH53	CH28	0-255		Scanner speed KPPS			

## 9. Built in effects

	DMX数值	图案组1	图案组2	图案组3	图案组4	图案组5	图案组6	图案组7
	↓ →	0-31	32-63	64-95	96-127	128-159	160-191	192-223
图案	0-15	无效 (闭光)						
图案1	16-27							
图案2	28-39							
图案3	40-51							
图案4	52-63							
图案5	64-75							
图案6	76-87							
图案7	88-99							
图案8	100-111							
图案9	112-123							
图案10	124-135							
图案11	136-147							

图案12	148-159							
图案13	160-171							
图案14	172-183							
图案15	184-195							
图案16	196-207							
图案17	208-219							
图案18	220-231							
图案19	232-243							
图案20	244-255							

## 9. Maintenance

1. Maintenance should be performed every 15-day period, by using a sponge which is dipped with alcohol, rather than wet cloth or other chemical liquid, to clean the mirror. Always disconnect from the power when the device is not in use or before cleaning it.

2. Cooling fan cleaning: Use compressed air to clean the fan of the device. The fan position plays a vital role in the normal operation of the device. Please ensure the normal operation of the fan.
3. When the equipment is used frequently, the fan should be cleaned every 1 month, or in a dusty and oily environment, the number of cleanings should be increased. The actual operation should be implemented according to the application environment of the equipment to ensure the normal operation of the fan.
4. Internal optical cleaning: cleaning internal optical components requires professional authorized technicians to operate. Incorrect cleaning techniques or improper cleaning choices can cause serious damage to the equipment. Since the optical part and the rest of the light source system are separated and sealed, this operation should not be performed more than once a year.

## **10. Warning and Declaration**

Do not look directly at the light source with your eyes when turning on the light. Before any installation and maintenance work, please make sure that the power has been cut off.



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Electrical safety



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Optical security

Product common breakdown comparative chart	
breakdown cause	Major breakdown analysis and solution
The light no emitting or no work	1. Check the power cable whether to connect the light,whether the fuse does burn out 2. Check the input voltage whether to assign the voltage match with the light. Check work order is normal reset or not.
No sound control	1.Check whether the keys on the display screen are set to the voice control mode according to the instructions. 2. If the sound sensitivity value is small, select a larger value.
The light can emit light normally and is not controlled by the controller	1.Check whether the start address code of the display screen of the light is set correctly. 2.Check whether the XLR signal is damaged.
Master-slave synchronization mode, the master is normal, and the slave is abnormal	1.Confirm that there is only one host, and the host is not connected to the DMX console, and set to voice control or auto-propelled mode. 2.There is still a problem with the correct master and slave settings, please check the online line.
Key failure, no work	1.Check whether any of the keys has not been reset normally.
The light is dim and the brightness is obviously reduced	1.Check whether the light source has reached the expiration date. 2.Check whether the internal and external optical system is clean.
If the fault cannot be eliminated according to the above method, please contact with dealer.	



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