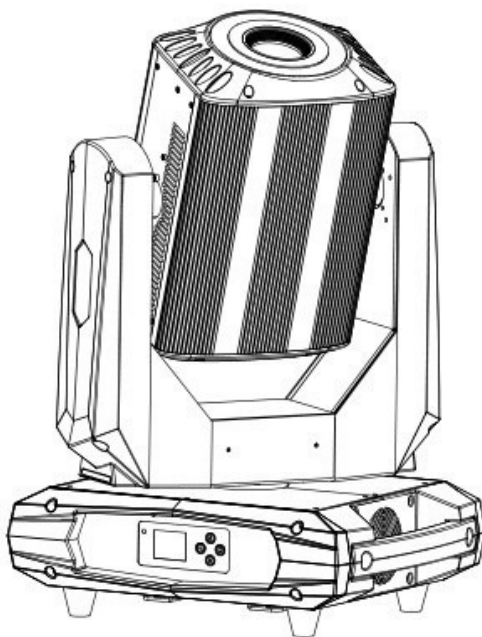


# SLS-OLM15W

## MANUAL



### SLS-OLM 15W (RGB) MOVING HEAD STAGE LIGHT

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 the 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.
10. To avoid electric shock or fire, avoid flammable liquid, water, metal and

other electrical conductors entering the light. If any foreign body enters the light, please cut off the power supply immediately.

11. Avoid operating the light in a dirty and dusty environment, and clean and maintain the light regularly.
12. Do not touch the wire when the light is running to prevent electric shock.
13. Avoid entanglement of the power cord with other wires.
14. Do not open the light housing without authorization.
15. Please cut off the power when the light is not used for a long time or for maintenance.
16. 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 parts 1pc

## **3. Installation Note**

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.

M3.ake sure that the ventilation fan and exhaust passage are not blocked by other equipment or decorative materials, such as newspapers, tablecloths, curtains, etc.

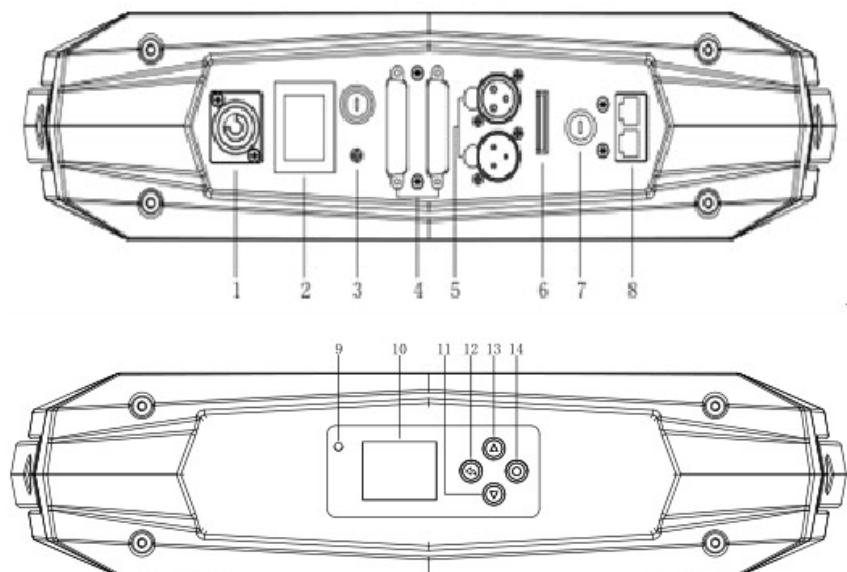
4The equipment should be fixedly installed. To ensure the stability of its installation point, at least a load-bearing structure that can withstand more than ten times the weight of the product.

5. For safety reasons, this machine should be connected to a main socket with a ground wire.

#### **4. Technical Paramete**

1. Power supply: AC 110~220V 50/60Hz, 300W
2. Light color: RGB
3. Working mode: Auto/DMX512/ master-slave/ILDA/SD card
4. DMX Control Channel: 6CH/40CH
5. Cool system: Intelligent air-cooling system
6. Working environment: indoor
7. Working temperature: 0°C - 35°C
8. N.W./G.W.: 20kg/24KG
9. Package size: 50\*39\*68cm.

## 5. Light Control Panel



NO.	Interface Name
1	Power input interface
2	Power switch
3	Ground
4	DB25 ILDA interface (IN/OUT)
5	DMX512 interface (IN/OUT)
6	SD card
7	Safety key

8	E-stop control (optional)	
9	Red indicating light	NO light/ normal light, The device system is in the dead state
		Flash: The equipment system is running normally
	Green indicating light	No light or all light. The device system is in a dead state
		Flash: The equipment system is running normally
	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
1	Menu display window	
0	▼ DOWN Touch key-press	
1	MENU Touch key-press	
1	▲ UP Touch key-press	
1	● ENTER Touch key-press	

## 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)

6.1 TFT LCD display control panel function menu setting, as following:

Menu	Secondary Menu	Third Menu	
Operation	DMX-512	DMX Address	address setting (1-512)
		CH model	CH mode: 6/40CH
		Channel value view	DMX-512 Channel value view CH1—CH40 (such as



			40CH channel value display 1-40)
	Auto mode	Show	beam effect, animation effect
		Master-slave	ON/OFF
		Sound	ON/OFF
		dimmer brightness	Default 064
	SD card mode	dimmer brightness	Default 064
		Display mode	(single/order/all)
		Page	001-008
		Cue	001-048
		Motor speed	0-255
		X-axis starting point	0-255
		X-axis ending point	0-255
		Y-axis starting point	0-255
		Y-axis ending point	0-255
		X- axis	0-
			255

		duration time	
		Y- axis duration time	0-255
	Test mode	X axis horizontal motor	0-255
		Y axis horizontal motor	0-255
		EO Enable	
		Output Test pattern	ON/OFF
		Dimmer	1-4
		Overall size	0-255
			0-255
		LED color	BLACK off WHITE white RED red GREEN green BLUE blue
	ILDA mode	ON/OFF	Turn on ILDA and only receive ILDA signal. The device will not emit light when running in other modes.
	Use mode	Value setting	he program has a built-

		(CH1-CH40 can customize the value of each channel of the light)	in console, restore the factory settings and save the data, if the data is cleared, press the reset option
Advanced settings	Motor setup	X axis horizontal reverse	ON/OFF
		Y axis horizontal reverse	ON/OFF
		X axis running angle	360/540
	Pattern setup	Overall size	0-255
		X axis Zoom	0-255
		Y axis Zoom	0-255
		X axis invert	ON/OFF
		Y axis invert	ON/OFF
		Replace XY	ON/OFF
	Color setup	Color setup	RGB/One
		Red (1-100)	0-255
		Green (1-100)	0-255
		Blue (1-100)	0-255 0-
		Dimmer (1- 100)	255

	Scan setup	15K-40K	The K number of the scanner is selected. The lower the K number, the more flashing the pattern, and the playback effect of the device is different.
		Scanner protect ON/OFF	ON, A single beam of light closes out
	Another setup	Sound Sensitivity	By default displays Chinese and
Screen setting	CN/EN	CN/EN	English options 180° rotation of the
	screen reverse	ON/OFF	screen
reset settings	Motor reset	ON/OFF	
	Reset factory setting	ON/OFF	
	factory setting		Used by factory technicians
device status	X-axis reset error	ON/OFF	The X/Y scanner motor is stuck in a certain position and an error
	Y-axis reset	ON/OFF	

	error		occurs, and the device will not emit light in
	SD card error	ON/OFF	SD card error: the card is not inserted or the information of the card cannot be read
	communication error	ON/OFF	The reason for the error is that the control board is not powered on or the chip is broken or there is a problem with the signal line
	CPU version	display hardware	
		display software	
		Hardware control	The reason for the error is that the control board is not powered on or the chip is broken or there is a problem with the signal line
		Software control motor	
		hardware motor	
		software LED hardware	

		LED software	
device information	running mode	Current device work mode Current device channel value	
	CH mode	Current device address	
	address	Current device effect version	
	effect version		
	Animation		
	effect house	Current device Animation effect	
	current device temp	Current device house current device temp	

Use the keys to control the cursor, select the corresponding function icon, and press the "●ENTER" button to enter the corresponding function menu setting. The menu has operating mode, address setting, language setting, advanced setting, system test, system information module. Press "MENU" to return to the main menu;

- 1) Operation mode—only one mode can be run at the same time (ILDA signal has the highest priority)

Console mode : Select the console mode and press the "ENTER" button to confirm, the current mode will be displayed on the display screen, press the "touch ●ENTER" button, use the touch ▲UP, ▼DOWN button to select the number of channels according to the required effect of DMX control, there are

tw4o0 CchHa n(n6eCIH m+o2d7eCsH: +67CCHH c)h acnhnaenIn ise IX YX mY omtoor tcohr  
ancnhealn,nel and built-in animation program channel, after setting, if you need to view the value of  
each channel, you  
▲UP, ▼DOWN to select the channel value to view the

can press the button

channel to view. The console mode is both slave mode. If it is connected to  
DMX512 console signal, it is in console mode. If it is connected to FB4 signal, it is in  
FB4-DMX-512 mode. Press the ENTER button to save, press the MENU button to  
return to the upper MENU.

Auto mode :Select the play mode, press the touch ●ENTER button to confirm,  
the current mode will be displayed on the display screen, press the "touch  
●ENTER" button, use the touch ▲UP, ▼DOWN button to select three built-in  
effects play mode, scene effect, beam effect, animation effect. If you need to  
string machine use touch▲UP, ▼DOWN button to select master/slave machine  
Settings ON /OFF. You can also select voice-activated triggers to play  
selection effects. Press ENTER button to save, press MENU button to return to  
the upper MENU Auto mode: Press the "● -ENTER" button to select 3 built-  
in effect modes. The automatic mode can be used as the master when the  
master-slave mode is turned on, and the slave is set to DMX mode.

SD card mode:

In SD card mode, select play mode, file, directory, motor speed, XY start  
and end points and stay time.

SD card play settings, the local system can read 8 fixed folders of SD card,  
each folder can read 48 pattern files, pattern file format (.ild) . The pattern file  
▲UP and ▼DOWN buttons. If the loop play is set to  
can be selected by the

ON, the entire SD folder will be played in a loop. (It is invalid to select a single

file name.) If you want to select a single file name to play, you need to return to the loop play setup OFF. Use the ▲UP and ▼DOWN buttons to select the way to

the pattern file play, ON is the music, OFF is the automatic.

Insert the SD card into the lamp and use the ▲UP , ▼DOWN buttons to select the SD card mode, or use the console to operate according to the channel, you can play the SD card files. In the SD card mode, you can find you by selecting the ▲UP , ▼DOWN buttons The file you need, or use folders and files through the

the console to find the file you need, when you select the SD card mode on the lamp (ONE is a single file loop playback, FILE is a single folder all files loop playback, ALL is the entire SD card file loop playback ) Three modes

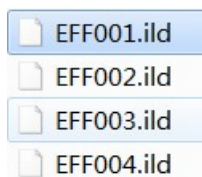
SD card file preparation :

1. Create a new folder in the root directory of the SD card. Only 8 folders as shown in the figure are supported. The naming rules are as shown in the figure below:



2. Put standard (.IDL) files in the folder you want to put, (Note: The file name can be self-named, it is recommended to name it with numbers or letters, and the file name should not exceed 32 letters as much as possible) as follows:





3. Folder playback sequence & folder content playback sequence operations are as follows:

When the files in a single folder are played, the playback order will be played in the order in which the files are copied to the SD, that is, the principle of copying first, if you need to change the playback order, you can only copy them again in the order you need. The entire SD card file is played, and the playback will be played according to a fixed folder number (the file is played in a loop from LF001 to LF008) and the sequence is also in the order of copying.

SD card folder corresponds to the Chinese and English name		
file	name (EN) Animals	中文名 (CH)
LF001	Abstracts1	动物 简单几何
LF002	Abstracts2 Music +	抽象几何 音乐
LF003	Dancers People +	& 跳舞人物 &
LF004	Characters Themes	特性主题
LF005	Logos + Text Shows	Logo&文本
LF006		表演
LF007		
LF008		

Test mode: Choose test mode, ●ENTER button to confirm, the current mode will be displayed on the display screen, test is a special mode, only after entering the test mode interface can be called, by touching the button ▲UP, ▼DOWN to select XY motor/start output/overall brightness/system test chart /LED ring color, Press the ENTER button to confirm the XY motor position setting, open the light source, select the test chart to check whether there is a problem with the lamp, return to the previous operation mode after exiting the interface, and press the MENU button to return to the upper MENU.

ILDA mode: Select ILDA mode, press the touch ●ENTER button to confirm, the current mode will be displayed ON the display screen, press the "touch ●ENTER" button, use the touch ▲UP, ▼DOWN button to select ON/OFF is OFF by default, open ILDA only receive external signals other modes running equipment will not light. Press ENTER button to save, press MENU button to return to the upper MENU.

User Mode: Select the user mode and press the ●ENTER button to confirm. The current mode will be displayed on the display screen. Channel CH1~CH33 by touching the button ▲UP, ▼DOWN to select the value of 0~255 set by pressing the button ▼DOWN to touch the button for the next channel setting, through the operation need numerical effect to set the lighting (user mode setting data: If the data is cleared, press the reset option) Press the ENTER button to save. Press the MENU button to return to the upper MENU.

Advanced Settings: select advanced Settings, press the touch ●ENTER key to confirm, through the touch ▲UP, ▼DOWN key to select motor

Settings/projection Settings/color Settings/galvanometer Settings/other Settings, Settings press the touch ●ENTER button to save, press the touch MENU button to return to the upper MENU.

1. Motor Settings: select motor Settings, press the ENTER button to confirm, the current mode will be displayed on the display screen, use the touch ▲UP, ▼DOWN button to select, X motor horizontal reverse Settings, set the motor running direction as forward (clockwise direction), or reverse (counterclockwise direction); Y Motor horizontal reverse setting, set the motor running direction as forward (clockwise direction) or reverse (counterclockwise direction); X axis running Angle setting, set the maximum running Angle when motor X works, can be set 360° or 540°. Press ENTER button to save, press MENU button to return to the upper MENU.

2. Pattern Settings: select scan Settings, press the ● ENTER button to confirm, the current mode will be displayed on the display screen, use the touch ▲UP, ▼DOWN button to select, overall size setting, set the overall size of the pattern; X-axis size setting, set the pattern level size; Y-axis size setting, set the vertical size of the pattern; The X-axis is reversed, and the horizontal direction of the pattern is exchanged. The Y-axis is reversed, and the vertical direction of the pattern is exchanged. XY axis displacement pattern horizontal and vertical direction interchange; Press ● ENTER button to save, press MENU button to return to the upper MENU.

3. Color setting: select the color setting, press the touch ● ENTER button to confirm, the current mode will be displayed on the display screen, use the touch ▲UP, ▼DOWN button to select, color selection, set the pattern to full color or single green; Red light brightness, set the red light brightness; Green brightness, set the green brightness; Blue light brightness, set the blue light brightness of the lamp, light source overall brightness, set the total brightness of the lamp; Press ● ENTER button to save, press MENU button to return to the upper MENU.

4. Scan Settings: select scan Settings, press the touch ● ENTER button to

confirm, the current mode will be displayed on the display screen, use the touch ▲UP, ▼DOWN button to select, galvanometer K number (15K-40K) Settings (galvanometer K number selection, the lower the K number, the pattern flicker, playing effect device K number is not the same as not synchronized); Galvanometer protection ON/OFF (open, a single beam of light will close the light) ●ENTER button to save, press touch MENU button to return to the press touch upper MENU.

5. Other Settings: select other Settings, press the touch ●ENTER button to confirm, the current mode will be displayed on the display screen, use the touch ▲UP, ▼DOWN button to select the voice sensitivity 000 to 100 (default 80) press the touch ●ENTER button to save, press the touch MENU button to return to the upper MENU.

6. Display Settings: Select display Settings, press the ENTER button to confirm, the current mode will be displayed on the display screen, use the touch ▲UP, ▼DOWN button to select: Chinese /EN Settings (screen display Chinese and English selection), screen reverse Settings (screen 180° rotation) Press the ENTER button to save, press the MENU button to return to the upper MENU.

7. Reset Settings: Select reset Settings, press the ●ENTER" button to confirm, the current mode will be displayed on the display screen, use the touch ▲UP, ▼DOWN button to select: Motor reset (motor out of step, position deviation through reset to adjust motor position), restore factory Settings, set parameters to the initial setting when factory (channel mode value, user mode value and DMX512 address unchanged) press the touch ●ENTER button to save, press the touch MENU button to return to the upper MENU.

8. Device state: select reset Settings, press the ●ENTER button to confirm, the current mode will be displayed on the display screen, use the touch ▲UP,

▼DOWN button to view: galvanometer XY axis reset error (X/Y galvanometer motor in a certain position stuck dead error, any mode of the device will not light); Whether the communication error is reported: ON error /OFF is normal (the reason for the error is that the control board is not powered ON, the chip is bad, or the signal line is wrong); Whether the CPU version information is displayed read hardware control version, motor version, LED version (the control board can not read the reason is that the control board is not powered on, the chip is broken, or the signal line is out of order) after checking, press the MENU button to return to the upper MENU.

Device information: Select device information, press the ENTER button to confirm, the current mode will be displayed on the display screen, use the touch ▲UP, ▼DOWN button to view the relevant information of the system.

Operation mode: the current working mode of the light,

Channel mode: Current device channel mode,

Address: the working address of the current light,

Effect version: the effect version played by the current device.

Animation version: the current version of the built-in animation effect on the device,

Equipment temperature: internal temperature of the equipment,

After viewing, press the MENU button to return to the upper MENU.

The scanner detection error reporting function: power ON the machine and start the scanner self-check. If either of the two axes displays ON, it indicates that the scanner has a problem. Selecting any mode will not work.

## 7. Light Control mode

### ILDA control mode

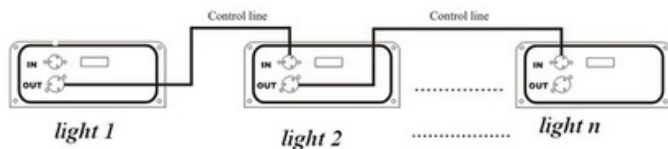
Use DB25 ILDA signal line to connect the device, the device will receive ILDA signal first, ILDA signal has the highest priority: ILDA>DMX512

### DMX512 control mode

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

**Master**—In the main menu, press the ▲ UP、 ▼ DOWN buttons to enter and select the "System Settings" menu / the host is set to ON (default is OFF), and the lamp is the host at this time.

**Slave**—In the main menu, press the UP and DOWN buttons to enter and select the "System Settings" menu / the slave is set to OFF (default is OFF), press the BACK button to return to select the "DMX Address" menu. DMX address is set to 001 and the lamp is the slave.



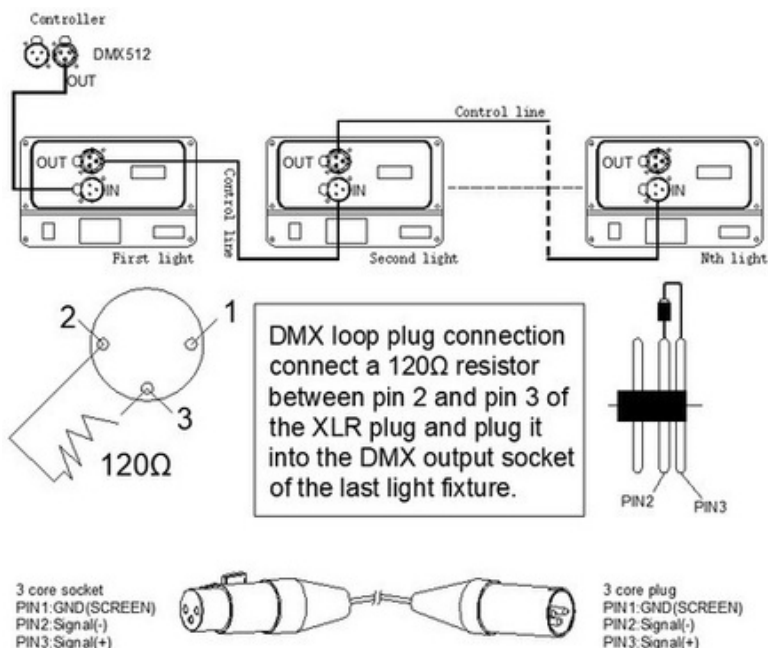
## User mode

The numerical value lamps of each channel of the lamps can be controlled through the operation interface.

SD Card mode: Select the SD card control mode. The light will play the contents stored on the SD card.

## 8. DMX512 Control

### 8.1 DMX512 Connect



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

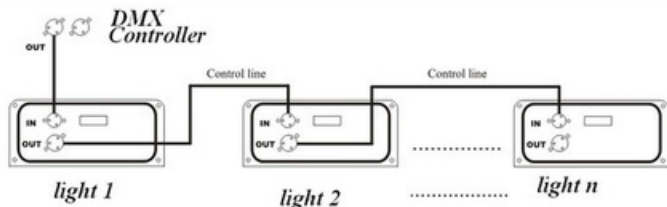
Signal, PIN4/PIN5: No USE

## 8.2 Channel setting:

### Channel Setting

Press the ●ENTER button to enter the menu mode, use the touch ▲UP, ▼DOWN button to select the "console mode" channel mode (6CH/40CH), select the channel mode you need, address code Settings. Touch ●ENTER to save, touch MENU button to return to the previous MENU.

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 7 or 41 (address code 1 of the first light fixture plus 6 or 40 channels), and the third light fixture is set to 13 or 81. And so on (this

setting will depend on the different console to decide, 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	7 or 41	007or 041
3	13 or 81	013 or 081
⋮	⋮	⋮

### 8.3 DMX-512 Channel introduce:

6CH When u use 6 CH, only Motor Chanel CH1-CH6 valid.

40CH Channel data :

Chanel	Chanel value	Content
CH1	0~255	X axis motor (X motor position)
CH2	0~255	X motor Fine-tuning
CH3	0~255	Y axis motor (X motor position)
CH4	0~255	Y motor Fine-tuning
CH5	0~255	XY motor speed choose
CH6	0~255	XY motor reset
	0~31	(When the value is 255, after 20S, reset)
CH7	32~63	Blackout(off)
		Manual play
	64~127	Auto play macro function
	128~255	SD PLAY mode, please refer to the SD card channel

CH8	0 ~ 255	Dimmer Brightness 0% ~ 100%		
CH9	0 ~ 255	Red brightness 0% ~ 100%		
CH10	0 ~ 255	Green brightness 0% ~ 100%		
CH11	0 ~ 255	Blue brightness 0% ~ 100%		
CH12	0 ~ 255	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)		
CH13	0 ~ 15	Blackout(off)		
	16 ~ 255	each 12 values be one cue, total 20 cues (choose cues)		
CH14	0 ~ 255	From left to right (128 center)		
CH15	0 ~ 255	X axis fine position		
CH16	0 ~ 255	From bottom to top (128 center)		
CH17	0 ~ 255	Y axis fine position		
CH18	0 ~ 255	Clockwise rotation (0°-360°)		
CH19	0 ~ 255	Fine rotation		
CH20	0 ~ 255	Zoom, From 100% to 0%		
CH21	0 ~ 255	From left to right (X rotation)		
CH22	0 ~ 255	From bottom to top (Y rotation)		
CH23	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 function 1	144 ~ 159	Macro function 2
	160 ~ 175	Macro function 3	176 ~ 191	Macro function 4
	192 ~ 207	Macro function 5	208 ~ 223	Macro function 6
	224 ~ 239	Macro function 7	240 ~ 255	Macro function 8

CH24	0~255	Visible point 100%-0%-0				
CH25	Pattern Deformation (with zoom channel (14) (25))					
	0~15	Invalid	16~31	Macro function 1	32~47	Macro function 2
	48~63	Macro function 3	64~79	Macro function 4	80~95	Macro function 5
	96~111	Macro function 6	112~127	Macro function 7	128~143	Macro function 8
	144~159	Macro function 9	160~175	Macro function 10	176~191	Macro function 11
	192~207	Macro function 12	208~223	Macro function 13	224~255	Default
CH26	Wave mode (when value=0 Invalid)					
	1~39	Macro function 1	40~79	Macro function 2	80~119	Macro function 3
	120~159	Macro function 4	160~199	Macro function 5	200~255	Macro function 6
CH27	Write in (when value=0 Invalid)					
	1~42	Macro function 1	43~84	Macro function 2	85~126	Macro function 3
	255	Strobe mode (from slow to fast)				
CH28	X horizontal position (when value=0 Invalid)					
	0	Invalid	1~32	Macro function 1	33~64	Macro function 2
	65~96	Macro function 3	97~128	Macro function 4	129~160	Macro function 5

	161~ 192	Macro function 6	193~224	Macro function 7	225~ 255	Macro function 8
CH29	Y Vertical position (when value=0 Invalid) 1~32 Macro function 133~64Macro function 2					
	0	Invalid			129~	
	65~96	Macro function 3	97~128	Macro function 4	160	Macro function 5
	161~ 192	Macro function 6	193~224	Macro function 7	225~ 255	Macro function 8
CH30	Rotation (when value=0 Invalid) 1~32 Macro function 133~64Macro function 2					
	0	Invalid			129~	
	65~96	Macro function 3	97~128	Macro function 4	160	Macro function 5
	161~ 192	Macro function 6	193~224	Macro function 7	225~ 255	Macro function 8
CH31	Zoom (when value=0 Invalid) 1~32 Macro function 133~64Macro function 2					
	0	Invalid			129~	
	65~96	Macro function 3	97~128	Macro function 4	160	Macro function 5
	161~ 192	Macro function 6	193~224	Macro function 7	225~ 255	Macro function 8
CH32	X Rotation (when value=0 Invalid) 1~32 Macro function 133~64Macro function 2					
	0	Invalid			129~	
	65~96	Macro function 3	97~128	Macro function 4	160	Macro function 5

	161~ 192	Macro function 6	193~224	Macro function 7	225~ 255	Macro function 8
CH3365~96	Y Rotation (when value=0 Invalid) 1~32 Macro function 133~64 Macro function 2					
	0	Invalid				
		Macro function 3	97~128	Macro function 4	129~ 160 225~ 255	Macro function 5
	161~ 192	Macro function 6	193~224	Macro function 7		Macro function 8
CH34	CH35	LED Dimmer	0~255		0-100% (dark-bright) 0-100%(slow-fast)	
CH36	LED function	macro LED strobe	0~255 0~255		each 4 values be one cue, total 64 cues	
					LED macro speed from slow to fast	
CH37	LED speed		0~255		0-100% (Red brightness)	
CH38	LED red		0~255		0-100% (Green brightness)	
CH39	LED green		0~255		0-100% (Blue brightness)	
CH40	LED blue		0~255			

#### 40CH SD card Channel data :

Channel		Channel value	content
CH1X	motor	0~255	X motor
CH2X	motor fine	0~255	X motor fine position































































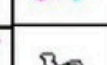














	position		
CH3	motor	0~255	motor
CH4	Y motor fine position	0~255	motor fine position
		0~255	XY motor speed
CH5	Motor speed	0~255	(When the value is 255, after 20S, reset)
CH6	Motor reset	0~127	please refer to 33CH table for details
CH7	Built in pattern mode		
	SD mode	128~159	Manual play
		160~191	File display
		192~223	Music trigger manual play choose pattern
		224~255	Music trigger manual play choose pattern
CH8	Dimmer	0~255	Dimmer Brightness 0% ~ 100%
CH9	Red	0~255	Red brightness 0% ~ 100%
CH10	Green	0~255	Green brightness 0% ~ 100%
CH11	Blue	0~255	Blue brightness 0% ~ 100%
CH12	pattern group	0~255 0~15	Each 32 value be one page, total 8 page ( CH1= 32-61 is valid)
CH13	pattern	16~255	Off
		0~255	Each 5 value be one macro function, total 48 cue (CH1= 62-128 is valid)
CH14	X position	0~255	From left to right (128 center) X axis fine position
CH15	X fine position		
CH16	X position		From bottom to top (128 center)

CH17	X fine position	0 ~ 255	Y axis fine position		
CH18	Rotation	0 ~ 255	Clockwise rotation (0°-360°)		
CH19	Fine rotation	0 ~ 255	Fine rotation		
CH20	Zoom	0 ~ 255	Zoom, From 100% to 0%		
CH21	X rotation	0 ~ 255	From left to right (X rotation)		
CH22	Y rotation	0 ~ 255	From bottom to top (Y rotation)		
CH23	Color	0 ~ 255	Default color	8 ~ 63	7 pcs different color
		64 ~ 127	Each 8 value be one effect total 8 effect		
		128 ~ 143	Macro function 1	144 ~ 159	Macro function 2
		160 ~ 175	Macro function 3	176 ~ 191	Macro function 4
		192 ~ 207	Macro function 5	208 ~ 223	Macro function 6
		224 ~ 239	Macro function 7	240 ~ 255	Macro function 8
CH24	Writer in	0 ~ 255	Visible point 100%-0%		
CH25	Speed	0 ~ 15	100% speed		



		16~31	25~31 Pause 0~100% OK
		32~255	0~30K No function
CH26	Scan Kpss	0~31	
		32~223	
		224~255	
CH27-CH28-CH29-CH30-CH31-CH32-CH33			
CH34	LED Dimmer	0~255	0-100% (dark-bright)
CH35	LED strobe	0~255	0-100% (slow-fast)
CH36	LED macro	0~255	4 value be one macro function, total 64 cue
CH37	LED speed	0~255	LED macro 0-100% (slow to fast)
CH38	LED red	0~255	Red
CH39	LED green	0~255	Green
CH40	LED blue	0~255	Blue

## 9. Built in effect lis

	DMX value	Page 1	Page 2	Page 3	Page 4	Page 5	Page 6	Page 7
Cue	0-15	invalid(black)						
Cue 1	16-27							
Cue 2	28-39							
Cue 3	40-51							
Cue 4	52-63							
Cue 6	64-75							
Cue 6	76-87							
Cue 7	88-99							
Cue 8	100-111							
Cue 9	112-123							
Cue 10	124-135							
Cue 11	136-147							

Cue 12	148-159							
Cue 13	160-171							
Cue 14	172-183							
Cue 15	184-195							
Cue 16	196-207							
Cue 17	208-219							
Cue 18	220-231							
Cue 19	232-243							
Cue 10	244-255							

## 10.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.

## 11.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.



电学安全

Electrical safety



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Optical security

Product common breakdown comparative chart	
breakdown cause	Major breakdown analysis and solution 1. Check the power cable whether to connect the light,whether the fuse does burn out
Orn en oligwhotr nko emitting	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.Xs.Check whether the start address code of the display clRRe esnig onfa It hise d liagmhta igse sde.t correctly. 2.Check whether
Master-slave	
	1.Confirm that there is only one host, and the host is not

synchronization mode, the master is normal, and the slave is abnormal Key failure, no work	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.
	1. Check whether any of the keys has not been reset normally.
On the digital display, the light source has reached the expiration date.	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.	



**LIGHTING**



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