

SLS

Sound
Light
Spain

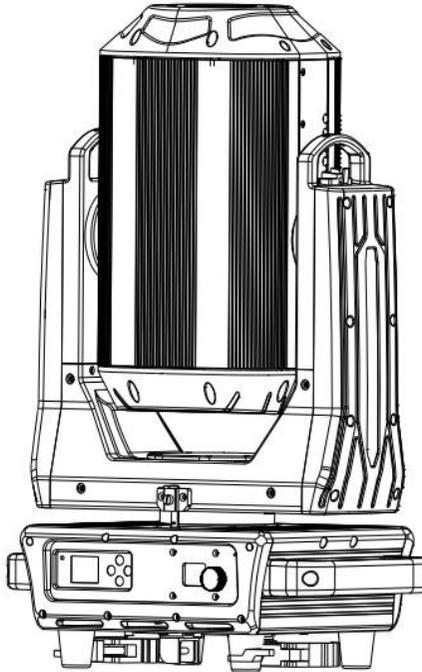


LIGHTING

LIGHTING

SLS-OLM30W

USER MANUAL



SLS-OLM30 (RGB)

Please read this manual carefully before using the product

CONTENT

1. Safety Guidance	3
2. Packing List	4
3. Installation Notes	4
4. Technical Parameter	5
5. Light Control Panel	6
6. Light Setting	7
6.1 TFTLCD display control panel function menu setting.....	8
7. Light Control Mode	15
8. DMX512 Control	16
8.1 DMX512 Connect.....	16
8.2 DMX512 Chanel setting.....	17
8.3 DMX512 Chanel display.....	18
9. Builtin pattern	23
10. FB4 panel	25
11. Maintenance	39
12. Warning and Declaration	40

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:

Light 1pc	Power cable 1pc	manual 1 book
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3. Installation Notes

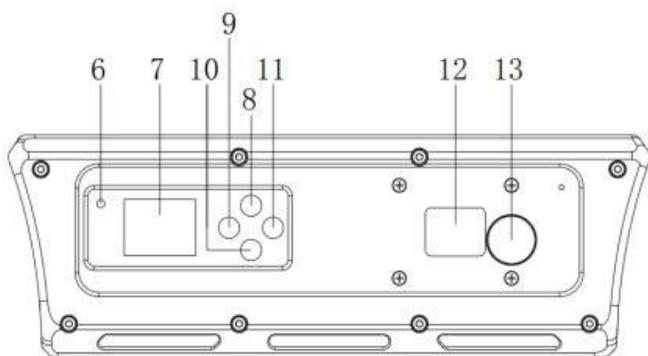
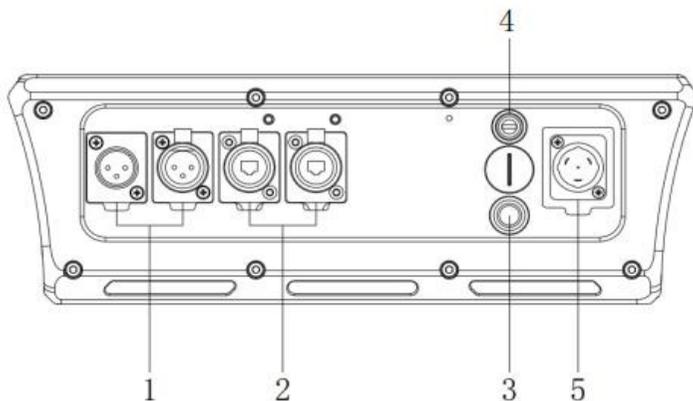
1. When install this equipment please make sure there's no flammable surfaces (decorated things, etc) within at least 2.5M and maintain minimum distance of 0.5M from the equipment to the walls.
2. Before installation, please confirm whether the power supply voltage you are using matches the voltage marked 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: 400W
3. Diode : RGB FULL color
4. Working method: moving head control programs,built in Pangolin FB4
5. Working mode: DMX512/Ethernet/master-slave/user mode
6. DMX Control Channel: 6CH/34CH/16CH(FB4)
6CH channel is XY motor channel
34CH (6CH+28CH) Channel XY motor channel and built-in animation program channel
16CH channel is FB4 program channel
7. Cool system: Intelligent air cooling system
8. Working environment: outdoor (IP65)
9. Working temperature: -10℃ - 40℃
10. N.W./G. W.: 41kg
11. Packing size: 63*50*77cm

5. Light Control Panel



No.	Interface Name
1	Waterproof XLR DMX512 interface (IN/OUT)
2	Waterproof Ethernet interface (IN/OUT)
3	AC220V Power Indicator
4	Fuse

5	power input	
6	indicating light (color)	function
	WORK (red)	OFF/ Stay on,The device system is in the dead state
		Flash: The equipment system run normally
		Flash quickly: The device safety lock is not opened
	DMX (green)	OFF: no DMX512 signal
		Flash: received DMX512 signal
	FB4 Mode(ILDA) (blue)	OFF: FB4 Mode is not turned on
		Stay on: Turn on FB4 Mode
7	menu	
8	▲UP	
9	○MENU	
10	▼DOWN	
11	●ENTER	
12	FB4 menu screen	
13	FB4 operation knob	

6. Light Setting

Turn on the machine, press the MENU button to enter the menu mode, press the ENTER button to enter the selected function, then use the UP/DOWN button to

select the desired function, and press the ENTER button to confirm. Return to the main menu and press the MENU button. The main functions are as follows:

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

Menu	Secondary Menu	Third Level Menu	
Operation	DMX512	DMX address	(1-512)
		Channel Mode	6/34CH
		View dmx value	Change according to the selected channel mode (such as 34CH channel value display 1-34)
	Play Mode	Show	Show 1, show 2, show 3
		Master-slave	Slave/ master
		Dimmer	000-255 (default value 64) (Exit interface value without saving)
	Test mode	Pan motor	0-255
		Tilt motor	0-255
		Enable output	ON/OFF
		Test Pattern	1-4
		Brightness	0-255
		Light color	RGB/R/G/B
		Size	0-255
		Invert X	No / Yes
	Invert Y	No / Yes	

	FB4 mode	ON/OFF	Turn on FB4 and only receive ILDA signal. The device will not output light when running in other modes.
	User mode	Value setting (CH1-CH34 can customize the value of each channel of the fixture)	The program has a built-in console, restore the factory settings and save the data, such as clearing the data, press the reset option
Master Set	Motor	Pan invert	No / Yes
		Tilt invert	No / Yes
		Pan angle	360/540
	Projector	Master Size	0-255
		X Scale	0-255
		Y Scale	0-255
		Invert X	No / Yes
		Invert Y	No / Yes
		Swap XY	No / Yes
	Color	Lamphouse	RGB/single
		Red	0-255
		Green	0-255
		Blue	0-255
		Brightness	0-255

	Scan	15K-40K		
		Scan- safety	Off/on	
Display	Chinese/EN	Chinese/En	displays Chinese and English options	
	LCD invert	No / Yes	Display up side down	
	Screensaver	30s-120s	30s-120s	
Defaults	P/T Motor reset	No / Yes		
	Defaults Reset	No / Yes		
	Factory Init	0-999		
Survey	X RST Error	No / Yes		
	Y RST Error	No / Yes		
	P/T RST Error	No / Yes	the motor board has no voltage or the motor board is broken	
	RS485 Error	No / Yes	the control board is not powered on, the chip is broken, or the signal line has a problem.	
	Version		CUI Hdw ver	
			CUI Sfw ver	
			MVC Hdw ver	
		MVC Sfw ver		
		MOT Hdw ver		
		MOT Sfw ver		
SysInfo	Operational	Current device mode		

	Channel Mode	Current device channel
	DMX address	Current device dmx address
	Scene version	Current device effect version
	Animation Ver.	Current device animation version
	Temperature	Current device house current device temp

DMX512 mode: Select the console mode to display the number of channels currently in use for DMX control according to the desired effect. After the setting is complete, if you need to view the value of each channel, you can press the ENTER button to enter the channel view. The console mode is the slave mode at the same time, if it is connected to the DMX512 console signal, it is the console mode, if it is connected to the FB4 signal, it is running in the FB4-DMX-512 mode. Press the ENTER button to save, press the MENU button to return to the previous menu.

Auto mode: select the auto mode, press the ENTER button to confirm, the current mode will be displayed on the display, press the "ENTER" button, use the UP/DOWN button to select 3 built-in effect auto-propelled modes, effect 1: motor XY auto No effect output, effect 2: colorful gradient 2 beams of light gradually increase to 14 beams, effect 3: a beam of colorful gradient flashes. Press the ENTER button to save, press the MENU button to return to the previous menu.

Test mode: press touch ●ENTER button to confirm, the current mode will be displayed on the display screen, test test is a special mode, only after entering the test mode interface can be called, by touching ▲UP, ▼DOWN button to select XY motor/start output/overall brightness/system test chart. ● Press the touch button to confirm the XY motor position setting, turn on the light source, light source color, XY direction, select the test diagram to check whether there is

any problem with the lamp, return to the previous operating mode after exiting the interface, and press the touch MENU button to return to the upper-level menu.

FB4 mode: Select FB4 mode, press the touch ●ENTER button to confirm, the current mode will be displayed ON the display, press the "touch ●ENTER" button, use the touch ▲UP, ▼DOWN button to select ON/OFF The default is off, open FB4 only receives external signals, other modes will not run the device light. Press the Touch ●ENTER button to save, and press the Touch MENU button to return to the upper-level menu.

User mode: select user settings, press the ENTER button to confirm, the current mode will be displayed on the display, channel CH1~CH34 press the ENTER button and press the UP/DOWN button to select the value from 0 to 255, set the value and press the MENU button to proceed to the next Channel settings, set the fixtures by operating the required numerical effects, press the ENTER button to save, and press the MENU button to return to the previous menu.

Master Set: select Master Set, press the ENTER button to confirm, use UP/DOWN to select motor/scan/color/system settings, press the ENTER button to save the settings, and press the MENU button to return to the previous menu.

1. **Motor setting:** select the motor setting, press the ENTER button to confirm, the current mode will be displayed on the display, use the UP/DOWN button to select, X motor horizontal reverse setting, set the motor running direction to be forward (clockwise) , Or reverse (counterclockwise); Y motor horizontal reverse setting, set the motor's running direction as forward (clockwise) or reverse

(counterclockwise); motor speed 0~255, X axis running angle Setting, set the maximum operating angle of the motor X when it is working, 360° or 540° can be set, XY start and end position settings, and XY delay time settings. Press the ENTER button to save, press the MENU button to return to the previous menu.

2. **Scan setting:** select the scan setting, press the ENTER button to confirm, the current mode will be displayed on the display, use the UP/DOWN button to select, the overall size setting, set the overall size of the pattern; X axis size setting, set the horizontal size of the pattern; Y Axis size setting, set the vertical size of the pattern; X-axis reverse, set the pattern horizontal exchange; Y-axis reverse, set the pattern vertical exchange; XY-axis replacement pattern horizontal and vertical exchange; press the ENTER button to save, press The MENU button returns to the previous menu.

3. **Color setting:** select the color setting, press the ENTER button to confirm, the current mode will be displayed on the display, use the UP/DOWN button to select, color setting, set the pattern to full color or single green; light source brightness, set the total brightness of the lamp; Red brightness, set the red brightness of the lamp; green brightness, set the green brightness of the lamp; blue brightness, set the blue brightness of the lamp, press the ENTER button to save, press the MENU button to return to the previous menu.

4. **System setting:** select the system setting, press the ENTER button to confirm, the current mode will be displayed on the display, use the UP/DOWN button to select, channel mode 6CH/34CH selection; master-slave setting selection; galvanometer K number setting setting galvanometer After the galvanometer protection setting is turned on, turn off the light when the working

angle of the galvanometer reaches a point to prevent the light source output pattern from being a point; FB4 Mode is turned on, and the device (the blue indicator light is always on) only receives FB4-SE Control signal, other modes of galvanometer light source are invalid; whether to display the LOGO interface when the LOGO is turned on; the screen saver can be set to off/on; select off, the display menu screen will be on after power on. Select ON, no menu operation for a long time, the screen is turned off (black screen); the screen is reversed, and the screen can be inverted 180 degrees; the motor reset, manually reset the calibration motor position; restore the factory settings, set the parameters to the initial settings at the factory (The channel mode value and DMX512 address remain unchanged), press the ENTER button to save, press the MENU button to return to the previous menu.

5. **Address code setting:** select the address setting, press the ENTER button to confirm, the current mode will be displayed on the display, use the UP/DOWN button to select the 001~512 address code value setting, press the ENTER button to save, press the MENU button to return to the previous level menu.

Device Info--- Display related information of the system

Channel value DMX channel of current fixture setting

Address code of the working address of the current fixture

Operating mode The current working mode of the fixture

Scene version Built-in effect version of the system

Temperature Internal temperature of lamps

Hardware version number Batch of lamp program board

Software version number Lamp program version

Motor version number of motor version (you can judge whether the motor version information is read)

Control panel Control panel program version number (you can judge whether the control board information is read)

7. Light Control mode

FB4 control Mode

The Ethernet signal cable is connected to the device as follows: To use the Ethernet signal connection, you need to press the UP, DOWN button in the main menu to select "System Settings/FB4 Mode switch to ON to connect successfully (default is OFF), press the ENTER button to save, press the MENU button to return to the previous menu .

DMX512 control mode

DMX-512 control method of this light have two control method, as following :

1. Use the DMX512 console mode, set the DMX512 address code, the lamp will receive the standard DMX512 signal, please refer to the DMX-512 channel description for details.

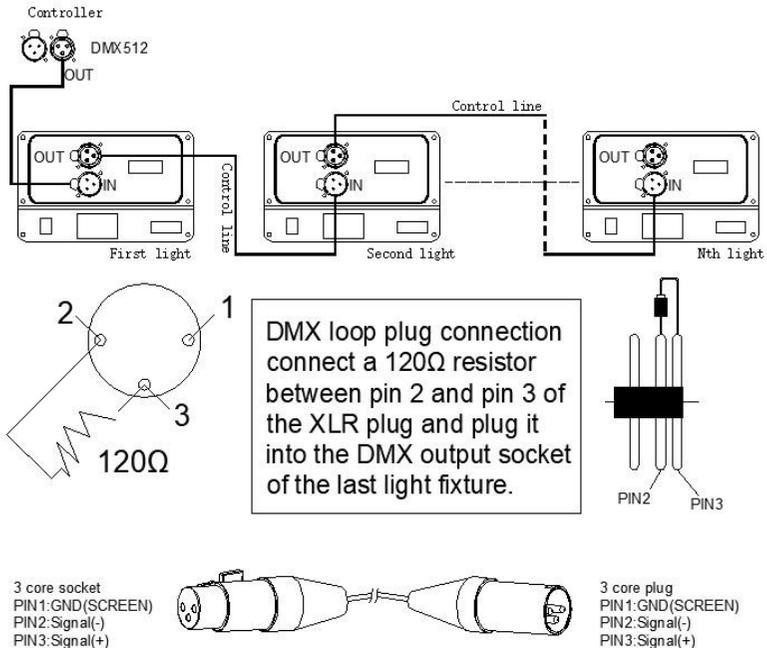
2. To use the FB4-SE-DMX signal control method, you need to select the 6CH channel mode in the system settings, the FB4 address code, and the address code that needs to be changed to the 6CH channel mode plus 6 values (for example: the 6CH channel mode address code is 1, then the FB4 address code Need to set 7).

Auto mode

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

8. DMX512 Control

8.1 DMX512 Control



1. 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.

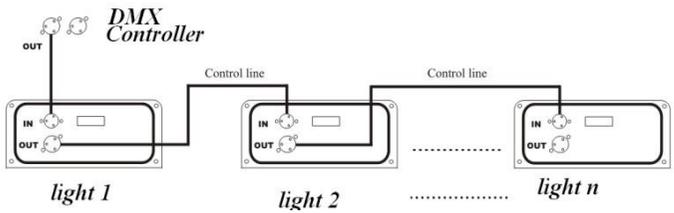
2. Connect the lamp with XLR signal, one end is connected to the output port of the lamp, and the other end is connected to the input port of the next lamp. XLR signal lines can only be used in series, not in parallel. DMX512 signal transmission speed is very fast. Damage to the signal line, weak welding, 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 , PNI3: + Signal
 - 5 pin XLR: PIN1: GND, PIN2: - Signal, PIN3: + Signal, PIN4/PIN5:No USE

8.2 DMX512 Chanel setting:

Press the MENU button to enter the menu mode, select the system setting/channel mode (6/33CH), 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 luminaire, and so on until all the luminaire are connected, and then connect the loop plug to the signal output of the last luminaire 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 34 (address code 1 of the first light fixture plus 6 or 33 channels), and the third light fixture is set to 13 or 67. 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:

Fixture No.	Start address	Display (ON)
1	1	1
2	7 or 35	007 or 035
3	13 or 69	013 or 069
⋮	⋮	⋮

8.3 DMX-512Channel introduce:

The IPLAY mode of this lamp has 2 channel modes 6CH and 34CH (channel mode can be selected in system setting→channel number setting), the mode and description are as follows:

When CH7=32~63, manual mode CH1~CH34 valid,

When CH7=64~95, auto mode CH8,CH12 valid,

Channel		Value	Content
34CH	6CH		6CH motor, 34CH builtin pattern effect
CH1	CH1	0~255	Pan motor position
CH2	CH2	0~255	Pan motor find position
CH3	CH3	0~255	Tilt motor position
CH4	CH4	0~255	Tilt motor fine position
CH5	CH5	0~255	P/T motor speed
CH6	CH6	0~255	P/T motor reset(value at 255, reset after 5s)
CH7		0~31	Blackout(Off)
		32~63	Manual mode

		64~95	Auto mode		
		96~255	Invalid		
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	Pattern page: (CH7: 32~63) Each 32 value one page, total 8 pages		
			Macro function: (CH7: 64~95) Each 85 value one macro, total 3 macros		
CH13		0~15	Blackout(off)		
		16~255	Each 12 value one pattern, total 20 patterns		
CH14		0~255	X axis position (128 center)		
CH15		0~255	X axis fine position		
CH16		0~255	Y axis position (128 center)		
CH17		0~255	Y axis find position		
CH18		0~255	Pattern rotation		
CH19		0~255	Pattern fine rotation		
CH20		0~255	Zoom, from 100% - 0%		
CH21		0~255	From left to right (X rotation)		
CH22		0~255	From bottom to top(Y rotation)		
CH23		Color			
		0~7	Default color	8~63	7different
		64~127	Each 8 value be one effect, total 8 effect		
		128~143	Macro function	144~159	Macro
		160~175	Macro function3	176~191	Macro
		192~207	Macro function5	208~223	Macro

		224~239	Macro function 7	240~255	Macro
CH24		0~255	Visible point 100%-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	40~79	Macro	80~119 Macro
	120~159	Macro	160~	Macro	200~ Macro
CH27	Write in (when value=0 Invalid)				
	1~42	Macro function 1	43~84	Macro function 2	85~126 Macro function 3
	127~255	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	97~128	Macro	129~ Macro

			function 3		function 4	160	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)					
		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
CH30		Rotation (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
CH31		Zoom (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
CH32		X Rotation (when value=0 Invalid)					
		0	Invalid	1~32	Macro	33~64	Macro

					function 1		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
CH33	Y Rotation (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	
CH34	Scan speed		0~255			Scan speed	

9. Builtin pattern sheet

	DMX value	page 1	page 2	page 3	page 4	page 5	page 6	page 7
	↓→	0-31	32-63	64-95	96-127	128-159	160-191	192-223
cue	0-15	Invalid (off)						
cue 1	16-27							
cue 2	28-39							
cue 3	40-51							
cue 4	52-63							
cue 5	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 20	244-255							

10. FB4 panel

	Second Menu	
Operation Mode	BEYON/QS	
	DMX-512	
	ArtNET	
	Autoplay	
	Time Code	
	Slave Mode	
	Test Mode	
DMX address	Start address	1-512
	Termination	auto /on/off
	Profile	FB3/FB4
	Timeout	3.0(0-5.0)
Artnet Settings	Universe	
	Start Address	1-512
	RDM	
	Profile	FB3/FB4
	Timeout	3.0
Auto play Setup	Playback	none/cue/list
	File Index	
	End Action	
Time code Setup	TC Type	ATC
	File Index	
	Offset Hrs	
	Offset Min	
	Offset Sec	
	Offset mS	
Test Mode	Enable lamp	
	Test Pattern 1-999	
	Brightness	0-100
	Master Size	0-100
Master Settings	Brightness 0-100	

	Master Size 0-100
	X Scale
	Y Scale
	Invert X
	Invert Y
	Swap XY
	Rescan Time 500
Geo Correction	X Scale
	Y Scale
	X Position
	Y Position
	Z Rotation
	X Shear
	Y Shear
Color settings	Color Shift 0-7
	Red
	Green
	Blue
	Deep Blue
	Yellow
	Cyan
Scan Guard	Enable Guard
	Horizon Level 0-100
	Horizon Angle -45-45
	Min.Velocity 1-300
	Dwell Time 1-300
	Invert Y
Network Setup	Auto IP
	Address 1
	Address 2
	Address 3
	Address 4
	Mask 1

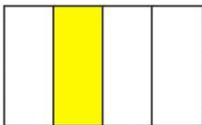
	Mask 2
	Mask 3
	Mask 4
FB4 Device info	Serial NO.
	Firmware
	Build NO.
Exit Menu	

● **10.1、FB4 Operating instructions :**



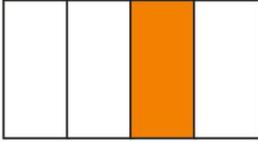
GREEN-Power &SD card status

- OFF:No Power
- FLASHING:Not used at the moment
- BLINKING:No SD Card
- SOLID ON:SD card Present



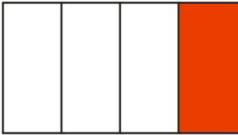
YELLOW-Network status

- OFF:Network is not detected
- FLASHING:Obtaining Address
- BLINKING:IP Address Obtained
- SOLID ON:Connected to QS or BEYOND



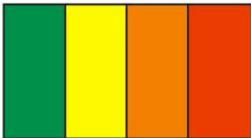
ORANGE-DMX & Art Net status

- OFF:No active DMX or Art NET signal detected
- BLINKING:DMX signal detected
- SOLID ON:ArtNET or Scan detected



RED-lamp Emission status

- OFF:No lamp output(and no connection to QS or BEYOND)
- SLOW BLINKING:QS or BEYOND active and lamp output disabled
- BLINKING:QS or BEYOND active and lamp output is enabled



-ALL 4 LEDS BLINKING :Waiting for firmware Update and No Valid firmware on the SD Card

ALL 4 LEDS SOLID ON :Firmware Update in Progress

● 10.2 DMX-512 control mode::

Function		value	Description
CH1	ACCESS	0-31	blackout
		33-95	basic rangeCH2-CH4 valid
		97-159	standard range ch1~ch8 valid
		161-223	extended range ch1~ch12 valid
		225-255	full range ch1~ch16 valid
CH2	Page	0-15	1 page
		17-31	2 page
		33-47	3 page
		49-63	4 page
		65-79	5 page
		81-95	6 page
		97-111	7 page
		113-127	8 page
		129-255	9 page
CH3	Cue	0-31	off
		33-222	Cue 1-48
		225-255	repair
CH4	speed	0-15	100%
		17-31	pause
		33-255	25%-200%
CH5	light (TTL mode invalid)	0-255	0-100%
CH6	zoom	0-255	0-100%
CH7	X size	0-255	100%-0-100%
CH8	Y size	0-255	100%-0-100%
CH9	Z angle	0-255	0-360°
CH10	X position	0-255	Left - center - right
CH11	Y position	0-255	Down - center - up

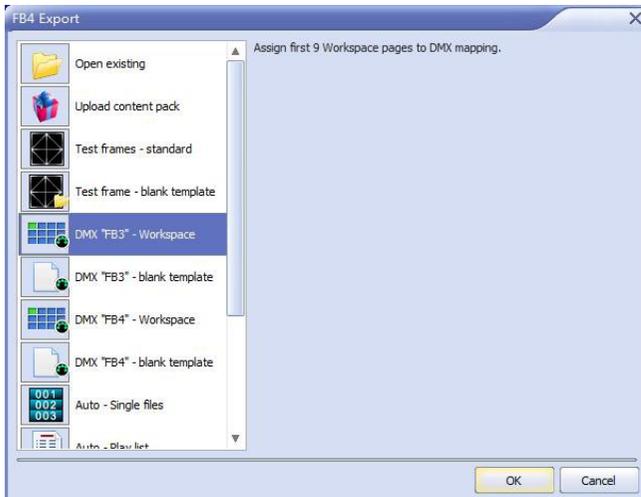
CH12	Valid visible point	0-255	0-100% No visible points - all points visible
CH13	Scanner K	0-31	default
		33-223	6k-29k
		225-255	30k
CH14	release	0-31	default
		33-95	hold
		97-159	loop
		161-223	next
		225-255	stop
CH15	color	0-31	default
		33-223	RED-ORANGE-YELLOWLIME-REEM-CYAN -BLUEPURPLE-PINK-RED-WHITE
		225-255	white
CH16	reseved	0-255	reserved

FB4 DMX pattern export steps

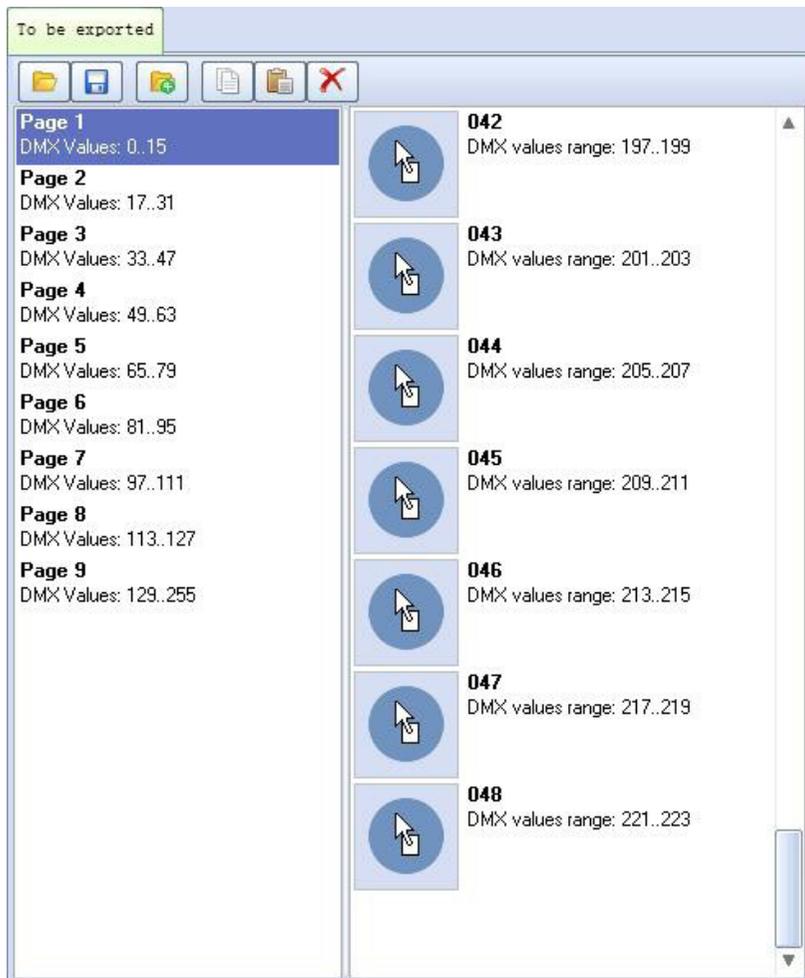
1. After FB4 hardware link computer, open FB4 Export, (Noted SD card must be input FB4)



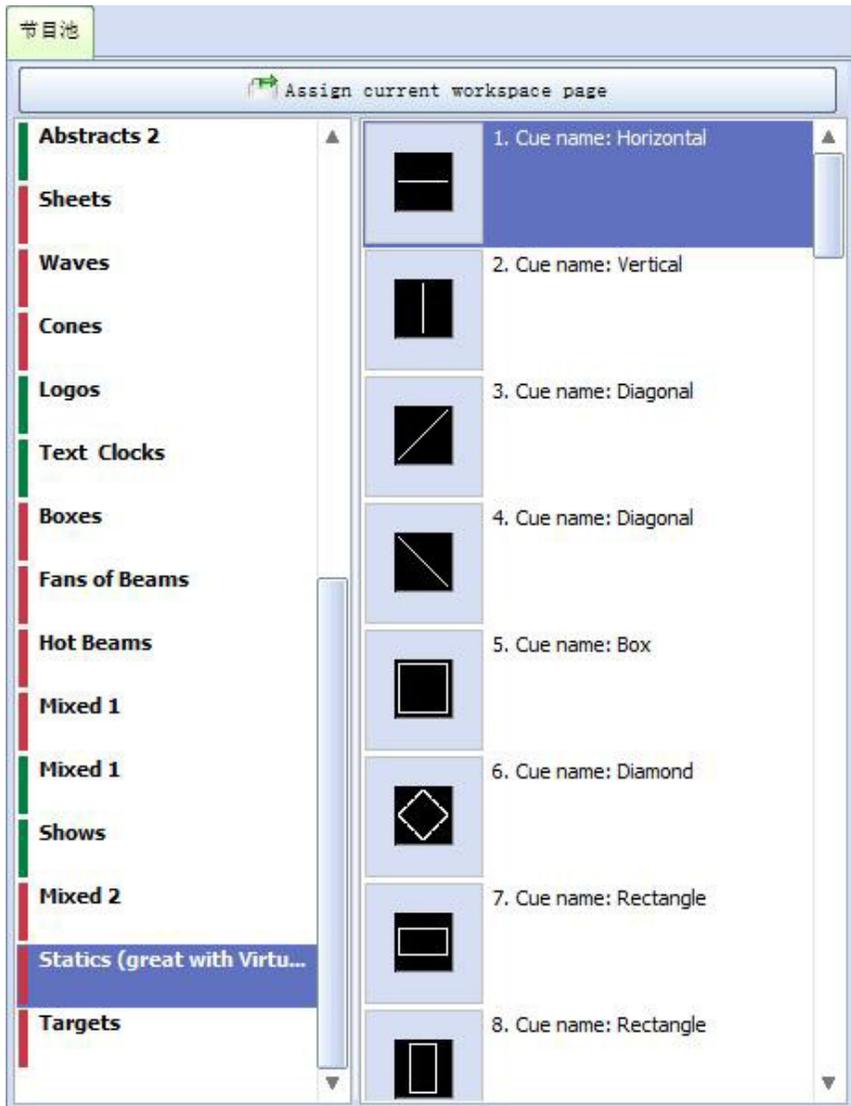
2. Choose DMX"FB3"-Workspace, then Click OK.



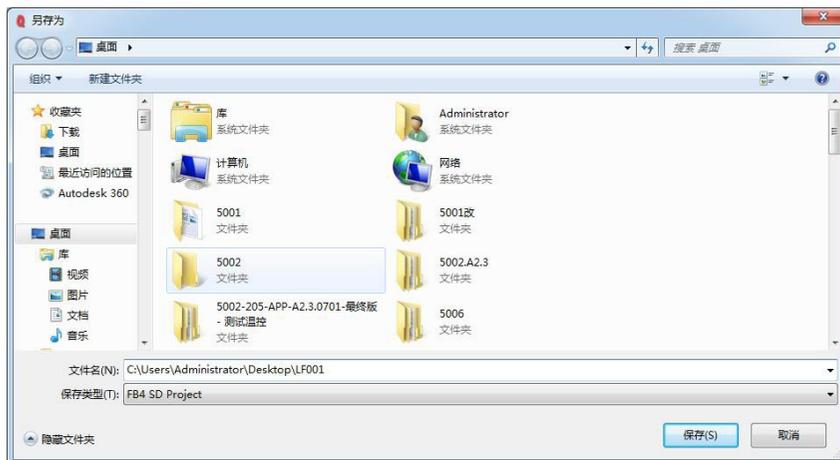
3. Select a blank program grid on the program page on the right. There are 9 program pages in total, and each page has 48 different program grids corresponding to different DMX values. (Click on the upper part to clear a single program grid, or right-click the program page to clear the entire program page)



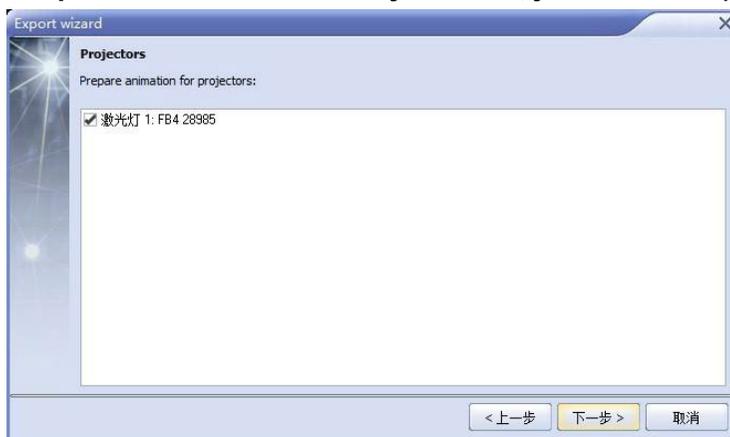
4. Select the desired program in the program workspace on the left, double-click the left button or drag the mouse to the blank program grid on the right.



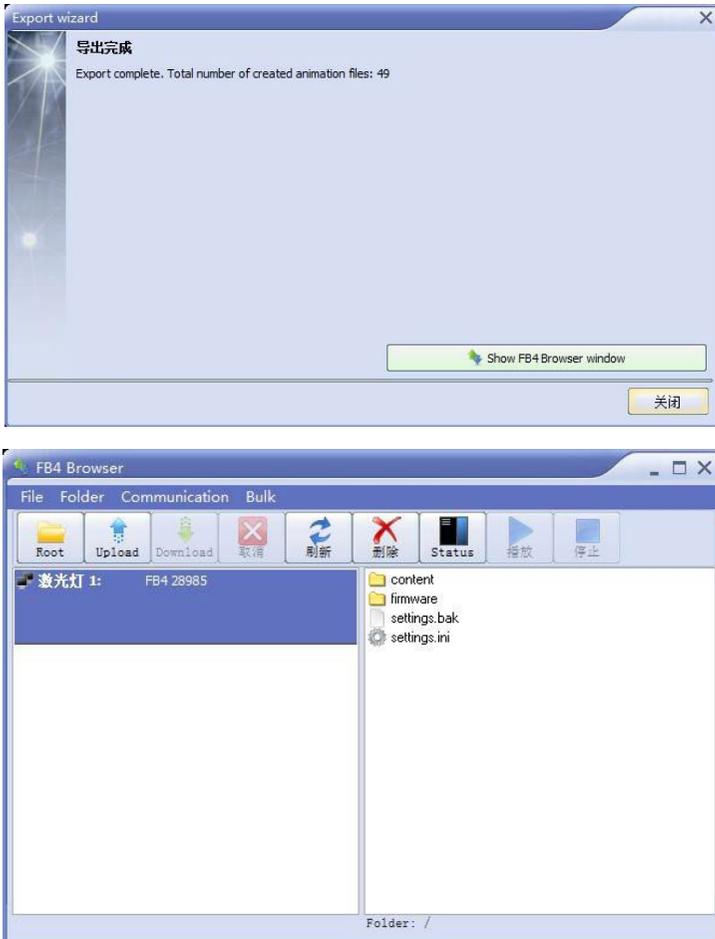
5. After selecting the desired program, click Export in the lower right corner, select your own appropriate path and file name in the pop-up window, and select Save.



6. At the prompt of the system, select the next step, and then select the FB4 box you want to upload the program, and continue to select the next step until you read the article. (When the computer is connected to only one box, just click Next)

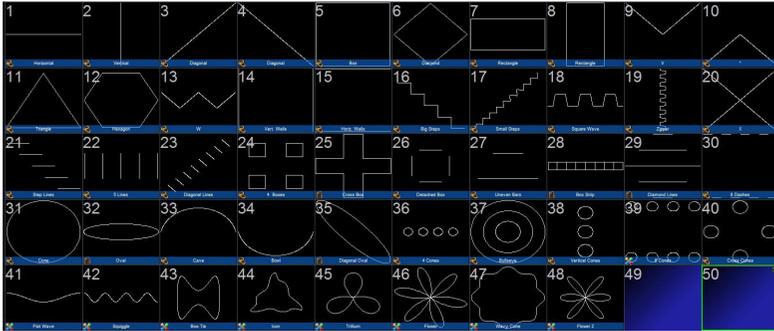


7. After the progress bar is finished, it only means that the data has been saved to the computer. At this time, click the FB4 Window in the lower right corner to see if the data has been uploaded to FB4. If it is still downloading, continue to wait until the progress bar is finished.

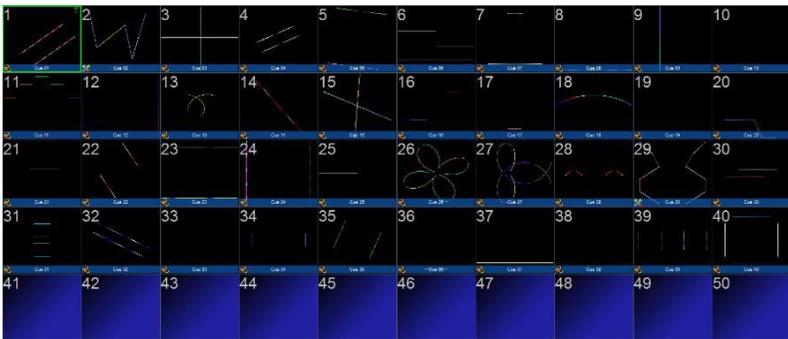


- The content of the default program page shipped by our company is as follows ;

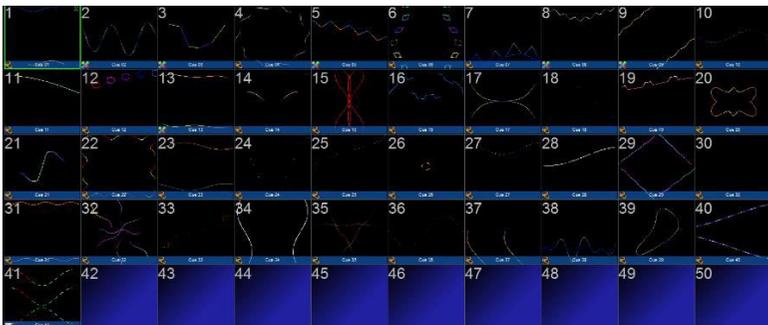
Page 1



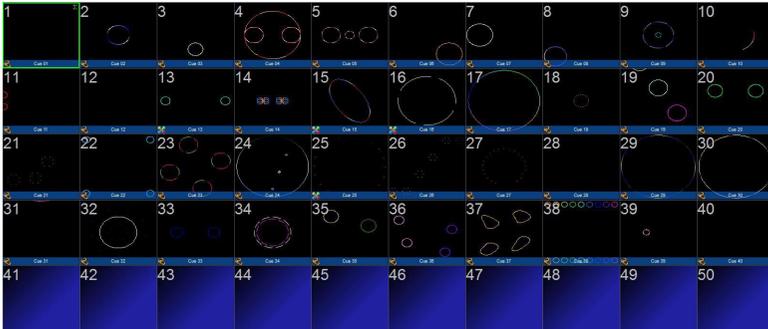
Page 2



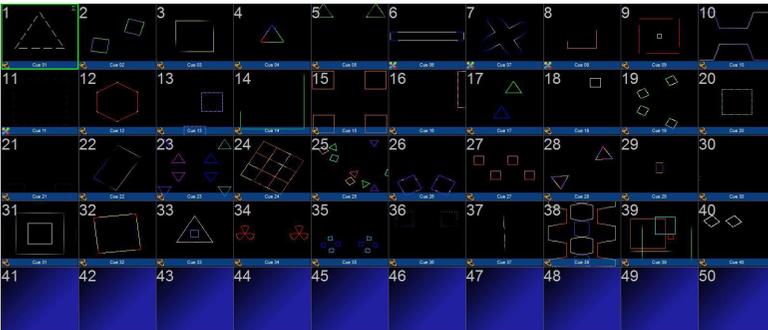
Page 3



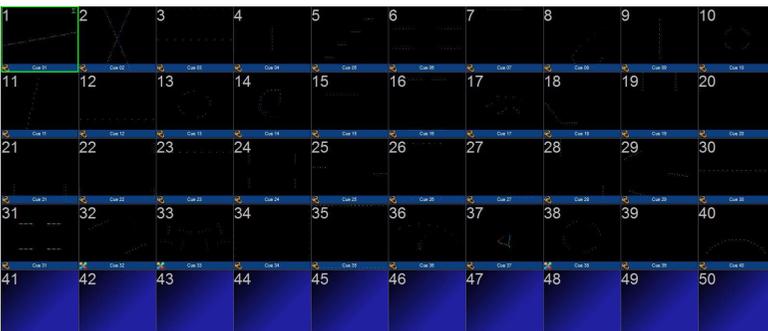
Page 4



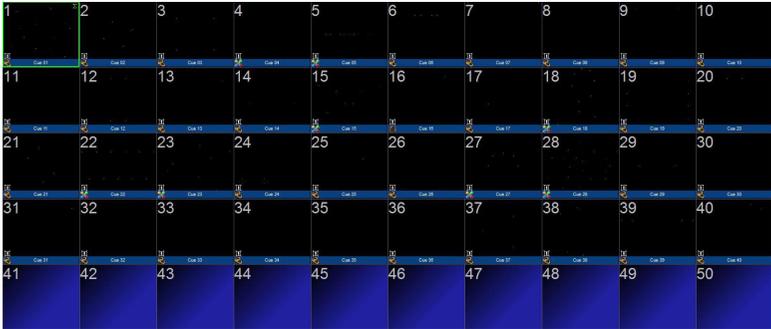
Page 5



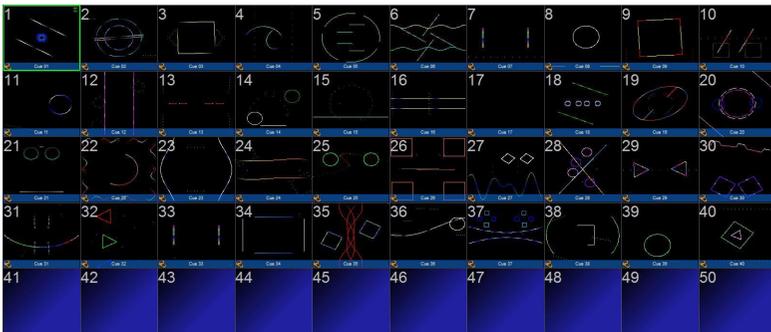
Page 6



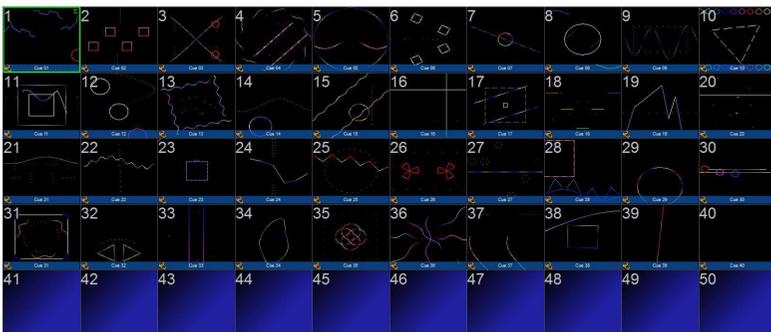
Page 7



Page 8



Page 9

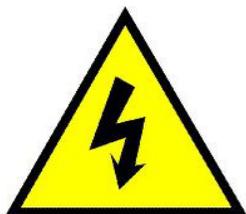


11. Maintenance

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.

12. 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.



Electrical safety



Optical security

Product common breakdown comparative chart	
breakdown cause	Major breakdown analysis and solution
The light no emitting or no work	<ol style="list-style-type: none">1. Check the power cable whether to connect the light,whether the fuse does burn out2. Check the input voltage whether to assign the voltage match with the light. Check work order is normal reset or not.
No sound control	<ol style="list-style-type: none">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	<ol style="list-style-type: none">1. Check whether the start address code of the display screen of the light is set correctly.

by the controller	2. Check whether the XLR signal is damaged.
Master-slave synchronization mode, the master is normal, and the slave is abnormal	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 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.	