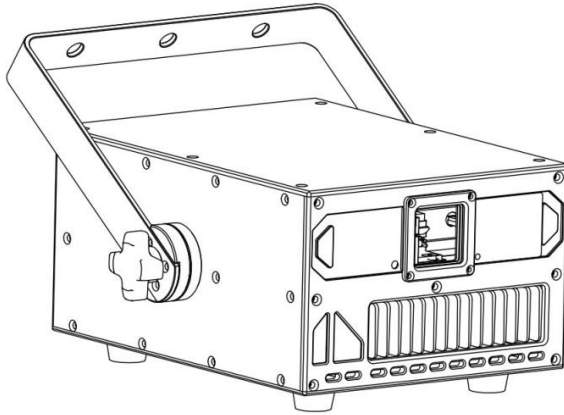


USER MANUAL



ANIMATION 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 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

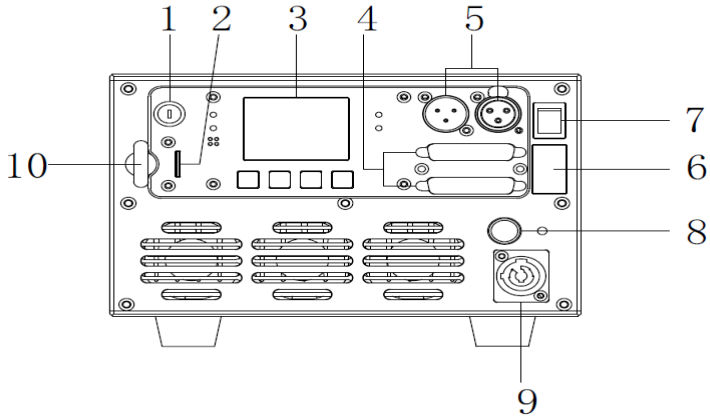
1. When install this equipment please make sure there's no flammable surfaces (decorated things, etc) within at least 2.5M and maintain minimum distance of 0.5M from the equipment to the walls.
2. Before installation, please confirm whether the power supply voltage you are using matches the voltage marked 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. Rated voltage: AC 100~240V 50/60Hz
2. Power consumption: 220W@220V
3. Color: single color, RGB
4. DMX512 channel: 5CH/17CH/18CH/27CH/28CH/53CH
5. Control mode: music/ Auto/ DMX512/ ILDA/ master-slave/ SD card
6. Cooling requirements: Intelligent air cooling cooling system
7. Operating temperature: 0°C - 35°C
8. Working environment: indoor
9. N.W./G.W. (2 in1) : 8.55KG/20.85KG
10. 2 in1 Package size: 44.5×35×51.5CM

5.Light Control Panel



NO.	Interface
1	safe lock
2	SD card
3	Menu display window
4	DB25 ILDA interface (IN/OUT)
5	XLR Caron 3 core DMX-512 interface (IN/OUT)
6	RJ45- ILDA interface
7	Power
8	fuse holder
9	Power input, connect to the external grid power supply
10	Safety rope to secure the ring

Indicator(color)	
Power indicator (Green)	Off: The device is powered off
	Steady on: indicates the power indicator
WORK (Red)	No light or all light:The device system is in a dead state
	Flash : The equipment system is running normally
	Fast flashing: The device safety electronic lock is not unlocked
DMX (Green)	Off: No DMX512 signal detected
	Steady on :DMX512 signal detected
	Blinking: The DMX512 signal is detected and the signal is output
ILDA (Blue)	Off: No ILDA signal detected
	Steady on: The external ILDA signal is detected and the light source output is not started
	Blinking: The external ILDA signal is detected and the light output is turned on

6. Light Setting

Turn on the device, 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 required function, and press the Enter button to confirm. To return to the main MENU press the Menu button. The main functions are as follows:

6.1 Touch screen menu list as following

Menu	Secondary Menu	Third Menu			
Operation mode	Dmx-512	DMX address	(1-512)		
		Channel Mode	5/17/18/27/28/53CH (Default: 27CH)		
		RDM	No/Yes		
		View DMX Value	Change according to the selected channel mode (such as 27CH channel value display 1-27)		
	Play mode	Show		Show1-Scene effects, Show 2- beam effects Show 3- Special effects, Show 4-animation loops Animations can be played individually	
			Master/slave	ON/OFF	
			Sound State	ON/OFF	
			Sound Sense	0-100	
			SD Card	Play Mode	ONE/SORT/LOOP
				Page	1-8
	Cue	1-48			
	Sound State	Off/On			
	Sound Sense	0-100			
	Test mode	Test mode	Enable output	ON/OFF	
			Test pattern	map1 to map 6	

		Brightness	0-255
		Master size	0-255
		Light Color	RGB/R/G/B
		Invert X	No/Yes
		Invert Y	No/Yes
	ILDA mode	ILDA Mode ILDA	Off/On (Turn on ILDA and only receive ILDA signal. The device will not emit light when running in other shows)
	User mode	Value setting (CH1-CH28 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
	Advanced	Projector	Master size
X Scale			0-255
Y Scale			0-255
Invert X			No/Yes
Invert Y			No/Yes
Swap XY			No/Yes
Color		Lamp house	RGB/Single
		Red	0-255
		Green	0-255
		Blue	0-255

		Brightness	0-255
	Scan	Scan kpps	15K-40K (the lower the K number, the more flashing the pattern will appear, and the playback effect will be out of sync if the device K number is different.)
		Scan-safety ON/OFF	ON/OFF (ON: It will turn off when there's only one beam light)
Display	Language	中文/EN	displays Chinese and English options
	LCD Invert	ON/OFF	180 °rotation of the screen
	Screensaver	30-120	30s to 120s
Defaults	Defaults Reset	ON/OFF	
	Factory Init		Used by factory technicians
Survey	X Scan Error	No/Yes	The X/Y scanner motor is stuck in a certain position and an error occurs, and the device will not emit light in any
	Y Scan Error	No/Yes	

			mode
	SD card Error	No/Yes	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	GUI Hdw Ver	
		GUI Sfw Ver	
		MVC Hdw Ver	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
MVC Sfw Ver			
SysInfo	Operational	Current device mode	
	Channel Num	Current device channel	
	DMX address	Current device dmx address	
	Scene version	Current device effect version	
	Animation Ver	Current device Animation effect	
	Temperature	Current device house current device temp	

DMX-512

Select the DMX-512 and press ENTER to confirm. The current DMX address will be displayed on the screen. There are 6 channel modes: 5CH/17CH/18CH/27CH/28CH/53CH.

Use the UP/DOWN button to select addresses from 001 to 512, and press ENTER to save the Settings. Press the MENU button to return to the previous menu.

Show mode

Select show mode and press ENTER to confirm. The current mode will be displayed on the display screen. Use the UP/DOWN button to select four modes: fast rhythm, medium rhythm, slow rhythm and animation effect. Press ENTER button to save, and press MENU button to return to the upper-level menu.

SD card mode

Select the SD card playing mode and press ENTER to confirm. The current mode will be displayed on the screen. Use the UP/DOWN button to select four modes: circular play, voice-activated trigger, directory, and file. Press ENTER button to save, and press MENU button to return to the upper-level menu.

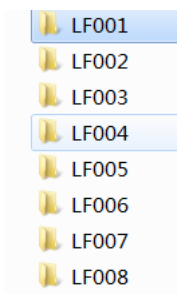
SD card playback Settings: The local system can read SD card 8 fixed folders, each folder can read 48 pattern files, pattern file format (.ild) format files. The UP and DOWN buttons can be used to select pattern files. If loop playback is set to ON, the whole SD folder is played in loop mode. (Selecting a single file name is invalid.) If you want to select a single file name to play, you need to return to loop playback and set to OFF. The UP and DOWN buttons can be used to select the mode to trigger the playback of the pattern file. ON is triggered by voice control, and OFF is automatically triggered

Insert the SD card into the lamp and select the SD card mode through the UP and DOWN buttons, or use the console to press the channel operation, you can play the SD card files. In the SD card mode, you can select folders and files through the UP and DOWN buttons to find the files you need, or use the

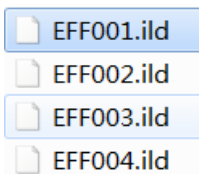
console to operate to find the files you need. When selecting the SD card mode on the lamp, there are 3 modes (ONE for single FILE playback, FILE for single folder for ALL files playback, and all for the whole SD card file playback).

SD card file:

1. Create a folder in the root directory of the SD card. Only eight folders are supported, as shown in the following figure:



2. Put the standard (.ild) file in the folder you want to put in. Note: The file name can be self-named.



3. Folder playing order & folder content playing order:

When files in a single folder are played, they are played in the order in which they are copied to the SD, that is, the principle of "copy first, play first". If you need to change the play order, you can only copy the files in the order you need.

The entire SD card is played according to the fixed folder number (cyclic file

F008 from LF001 to LF8) and in copy order.

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

Test mode

Select the test mode and press ENTER to confirm. The current mode will be displayed on the display screen. Use UP/DOWN button to select the test mode and test patterns . Press ENTER button to start and to check whether there is any problem with the light. press MENU button to return to the upper-level menu.

ILDA mode

Select ILDA mode, press ENTER button to confirm, the current mode will be displayed on the display screen, press "ENTER" button, use UP, DOWN button to select off/on. The default is off, open ILDA only receives external signals, other mode operation will not work. Press ENTER to save, and press MENU to return to the previous menu.

User mode

Select User mode and press ENTER to confirm. The current mode will be displayed on the display. 1 channel ~28 channels, press ENTER to confirm.

Select the value of 0~255 through the UP and DOWN buttons, set the next channel setting by pressing the DOWN button, and set the light through the operation of the numerical effect (set data in user mode: Restore factory setting data unchanged, such as clear data press reset option) Press ENTER button to save, press MENU button to return to the previous menu.

Master Set

Select master set, press touch ●ENTER button to confirm, by touching ▲UP, ▼DOWN button select target 1-6 /projection setting/color setting/Scanner setting, set the Settings Press touch ●ENTER button to save, press touch MENU button to return to the previous level menu.

Projector setting:

Select scan setting, press touch ●ENTER button to confirm, the current mode will be displayed on the display, use touch ▲UP, ▼DOWN button to select, target 1-6 (light outlet setting), 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; The X axis is reversed, and the horizontal direction of the pattern is reversed. The Y-axis is reversed, and the vertical direction of the pattern is reversed. XY axis replacement pattern horizontal and vertical directions swap; Pattern X-axis offset; Pattern Y-axis offset, Press the Touch ●ENTER button to save, and press the Touch MENU button to return to the upper-level menu.

Color setting:

Select the color setting, press the touch ●ENTER button to confirm, the current mode will be displayed on the display, use the touch ▲UP, ▼DOWN button to select, target 1-6 (light outlet setting), color selection, set the pattern to full color or single green; Red light brightness, set the lamp red light brightness; Green brightness, set the luminaire green brightness; Blue light

brightness, set the blue light brightness of the lamp, the overall brightness of the light source, set the total brightness of the lamp; Press the Touch ●ENTER button to save, and press the Touch MENU button to return to the upper-level menu.

Scanner setting:

Select Scanner setting, press touch ●ENTER button to confirm, the current mode will be displayed ON the display, use touch ▲UP, ▼DOWN button to select, Scanner protection ON/OFF (open, a separate beam of light will close the light) press touch ●ENTER button to save, press touch MENU button to return to the previous level of menu.

Display

Select display Settings, press touch ●ENTER button to confirm, the current mode will be displayed on the display screen, use touch ▲UP, ▼DOWN button to select: Chinese /EN Settings (the interface displays Chinese and English options), screen reverse Settings (screen 180° rotation) press touch ●ENTER button to save, Screen saver, setting 30s to 120s, press touch MENU button to return to the previous level of menu.

Survey

Select Survey, press ENTER button to confirm, the current mode will be displayed on the display screen, use the voice control sensitivity of 000 to 100 (default 80), restore the factory Settings, set the parameters to the factory initial Settings (channel mode value, user mode value, DMX512 address and display language are unchanged) press ENTER button to save. Press the MENU button to return to the previous menu.

Sysinfo

Select SysInfo, press the touch ●ENTER button to confirm, the current mode will be displayed on the display, use the touch ▲UP, ▼DOWN button to

check: the galvanometer XY axis reset error (X/Y galvanometer motor stuck in a certain position will report an error, no light will be generated in any mode of the device); Communication error: ON error /OFF normal (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); Check whether the CPU version information is displayed and the hardware control version is read (the reason why the control board cannot read it is that the control board is not powered on or the chip is bad or the signal cable is faulty). After checking, press the MENU button to return to the upper-level menu.

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

Operation mode: the working mode of the current luminaire,

channel mode: the channel mode of the current device,

Address code: the working address of the current luminaire,

effect version: the effect version played by the current device,

device temperature: the internal temperature of the device, press and touch the MENU button to return to the upper menu after viewing.

7. Light Control mode

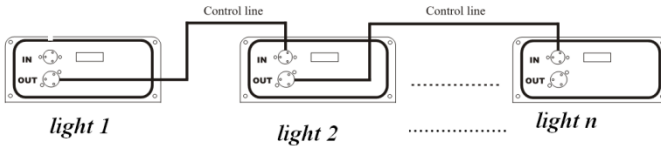
①512 control mode:

MX512 address code, the lamp will receive standard DMX512 signal.

② Master/slave mode:

Host - In the main menu, press UP and DOWN to enter the menu of "System Settings"/Host Settings as a check mark (default is a cross), then the lamp is the host. Press ENTER button to save, and press MENU button to return to the previous menu.

Slave - In the main MENU, press UP and DOWN to enter the menu of "System Settings"/Slave machine set to cross (default is cross), press Menu button to return to the menu of "DMX Address". DMX address set to 001.

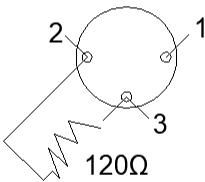
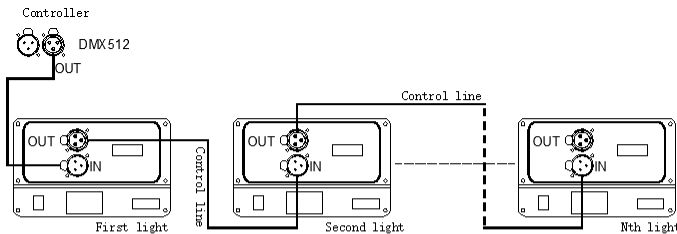


③ Automatic mode

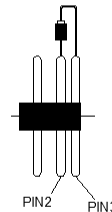
When the lamp does not receive the external signal, the equipment can choose to run automatically.

8. DMX512 Control

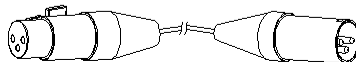
8.1 DMX512 Connect



DMX loop plug connection
connect a 120Ω resistor
between pin 2 and pin 3 of
the XLR plug and plug it
into the DMX output socket
of the last light fixture.



3 core socket
PIN1:GND(SCREEN)
PIN2:Signal(-)
PIN3:Signal(+)



3 core plug
PIN1:GND(SCREEN)
PIN2:Signal(-)
PIN3:Signal(+)

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 , PIN3: + Signal

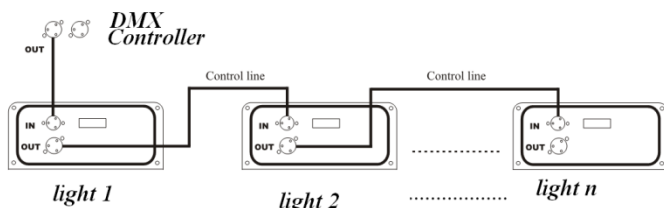
5 pin XLR: PIN1: GND, PIN2: - Signal, PIN3: + Signal, PIN4/PIN5: No USE

8.2 DMX512 channel setting:

Press the MENU button to enter the menu mode, select the system setting/channel mode (5CH), 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 device must have its own address code. So, if the address of the first lamp is set to 1 and the address code of the second light is set to 6/18/19/28/29/54 and the address code of the first light is set to 1 plus 5/17/18/27/28/53 channels, the third lamp is set to 11/35/37/55/57/107CH. And so on (this setting also needs to be determined according to different console, now only according to the general convention).

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

Fixture No.	Address	LED display (ON)
1	1	1
2	6/18/19/28/29/54	006/018/019/028/029//054
3	11/35/37/55/57/107	011/035/037/055/057/107
⋮	⋮	⋮

8.3 DMX-512 Channel introduce:

This light pattern mode has 6 channel modes 5/17/18/27/28/53CH (the operation mode can be selected from the console mode → channel mode setting), SD mode is not affected by the channel number setting, SD PLAY

has 3 channel modes 5/17/20CH, (when the channel mode is 5CH, SD card mode 5CH is valid. SD card mode 17CH is valid when the channel mode is 18/19CH, and SD card mode 20CH is valid when the channel mode is 27/28/53CH.) The modes and descriptions are as follows:

Channel	Content		
CH1	Patterns	0~31	Blackout
		32~63	Manual choose cue
		64~95	Auto trigger macro function
		96~127	Voice activated auto macro function
	SD card mode	128~159	Manual drawing selection
		160~191	Folder Play
		192~223	Voice-activated manual image selection
		224~255	Voice control triggers folder playback

IPLAY mode of this lamp has one channel mode 5CH (channel mode can be checked in system setting → channel number setting), which is described as follows:

When CH1 =32 ~ 63, all channels are valid.

When CH1= 64 ~ 127, CH2 and CH6 are effective for automatic control.

5CH

Channel	value	Content
CH1	Cue mode	0 ~ 31
		32 ~ 63
		64 ~ 95

		96 ~ 127	Sound trigger macro function
	SD Card	128 ~ 255	Please read SD card 5CH on page 28
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 ~127	Sound trigger macro function
	SD card	128 ~255	Please read SD card 17CH on page 29
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 ~127	Sound trigger macro function	
	SD card	128 ~255	Please read SD card 17CH on page 29	
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 O, 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	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	Deformati on	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		

27/28CH and 53CH-double pattern:

Channel			Content
27/28CH	53CH	Value	27/28CH indicates a single pattern and 53CH indicates a double pattern
CH1		0~31	Blackout
		32~63	Manual choose cue
		64~95	Auto mode
		96~127	Voice activated auto mode
		128~255	Please refer to the SD card channel pattern table
			Patterns
CH2		0~255	Total
CH3	CH28	0~255	Red
CH4	CH29	0~255	Green
CH5	CH30	0~255	Blue
CH6	CH31	0~255	CH1: 32~63, Each 32 value be 1 list, total 8 list
			CH1: 64~95; CH1: 96~127 0 numerical loop all; 1-255 Every 3 values is a macro function effect, a total of 85;
			SD card mode

CH7	CH32	0~15	Blackout				
		16~255	Each 12 value be 1 cue, total 20 cues				
CH8	CH33	0~255	Left right (128 center)				
CH9	CH34	0~255	X fine position				
CH10	CH35	0~255	Downup (128 center)				
CH11	CH36	0~255	Y fine position				
CH12	CH37	0~255	Rotation				
CH13	CH38	0~255	Fine rotation				
CH14	CH39	0~255	100%....0%				
CH15	CH40	0~255	Left...right				
CH16	CH41	0~255	Down ... up				
CH17	CH42	color					
		0~7	default	8~63	7 color		
		64~127	Color effects (1 effect for every 8 values, 8 in 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		
CH18	CH43	0~255	Write in,Visible point 100%-0				
CH19	CH44	Deformation (valid for 14CH 25CH)					
		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
CH20	CH45	wave					
		1~39	Macro 1	40~79	Macro 2	80~119	Macro 3
		120~159	Macro 4	160~199	Macro 5	200~255	Macro 6

CH21	CH46	Write in (invalid if the value is 0)					
		1~42	Macro 1	43~84	Macro 2	85~126	Macro 3
		127~255	Flash (0-100%)				
CH22	CH47	X 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
CH23	CH48	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
CH24	CH49	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
CH25	CH50	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
CH26	CH51	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
CH27	CH52	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
CH28	CH53	0~255	1.....40Kpps Scan speed				

SD card 5CH:

Channel	Content		
CH1	Patterns	0~31	Blackout
		32~63	Manual choose cue
		64~95	Auto mode
		96~127	Voice activated auto mode
	SD card mode	128~159	Manual choose cue
		160~191	Folder Play
		192~223	Voice activated auto mode
		224~255	Voice activated folder mode
CH2	Total	0~255	Fade 0% 100%
CH3	Folder	0~255	Each 32 value be 1 list, total 8 list
CH4	Material	0~15	Blackout
		16~255	Every 5 values is a material, a total of 48
CH5	Zoom	0~255	Fade 100%....0%

SD card 17CH:

Channel	Content		
CH1	Patterns	0~31	Blackout
		32~63	Manual choose cue
		64~95	Auto mode

	SD card mode	96~127	Voice activated auto mode		
		128~159	Manual choose cue		
		160~191	Folder Play		
		192~223	Voice activated auto mode		
		224~255	Voice activated folder mode		
CH2	Total	0~255	Fade 0% 100%		
CH3	Red	0~255	Fade 0% 100%		
CH4	Green	0~255	Fade 0% 100%		
CH5	Blue	0~255	Fade 0% 100%		
CH6	Folder	0~255	Each 32 values is a folder, a total of 8;		
CH7	Material	0~15	Blackout		
		16~255	Each 5 value be 1 cue, total 48 cues		
CH8	X position	0~255	Left right (128 center)		
CH9	Y position	0~255	Downup (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	Down ... up		
CH14	Color	0~31	Default	32~63	White
		64~95	Red	96~127	Yellow
		128~159	Green	160~191	Cyan
		192~223	Blue	224~255	Purple

CH15	Write in	0~255	Visible point 100%-0
CH16	Speed	0~15	Default
		16~31	Pause
		32~255	25% - 200%
CH17	Scan rate	0~31	Default
		32~223	6k - 29k
		224~255	30k

















































SD card 20CH:

Channe	Parameter	Value	Parameter description
CH1	IPLAY mode	0~31	Black
		32~63	Manual play
		64~95	Auto play
		96~127	Music play
	SD mode	128~159	Manual play
		160~191	Auto play
		192~223	Music play (one file)
		224~255	Music play (all files loop)
CH2	Dimmer	0~255	Brightness 0% 100%
CH3	Red	0~255	Brightness 0% 100%
CH4	Green	0~255	Brightness 0% 100%
CH5	Blue	0~255	Brightness 0% 100%
CH6	List	0~255	Each 32 value be 1 list, total 8 list
	Macro		each 10 value be 1 macro, total 25 macro
CH7	Cue	0~15	Black
		16~255	Each 12 value be 1 cue, total 20 cues
CH8	X position	0~255	Left right (128 center)

CH9	X fine	0~255	X fine position
CH10	Y position	0~255	Updown (128 center)
CH11	Y fine	0~255	Y fine position
CH12	Rotation	0~255	Clockwise rotation (0°-360°)
CH13	Fine rotation	0~255	Fine rotation
CH14	Zoom	0~255	100%...0%
CH15	X flip	0~255	Left...right
CH16	Y flip	0~255	Down ... up
CH17	Color	0~31	Default
		32~63	White
		64~95	Red
		96~127	Yellow
		128~159	Green
		160~191	Cyan
		192~223	Blue
		224~255	Purple
CH18	Write in	0~255	Visible point 100%-0
CH19	Speed	0~15	Default
		16~31	Pause
		32~255	25% - 200%
CH20	Scan rate	0~31	Default
		32~223	6k - 29k
		224~255	30k

9. Built in effect list

	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
图案	0-15	无效 (闭光)						
图案1	16-27							<i>in movement art10</i>
图案2	28-41							HELLO I
图案3	42-53							happy
图案4	54-63							Merry christmas
图案5	64-75							happy for you
图案6	76-87							thank you
图案7	88-99							happy wedding
图案8	100-111							Valentine's Day
图案9	112-123							happy Britain
图案10	124-135							congratulation
图案11	136-147							恭喜
图案12	148-159							恭喜

图案13	160-171							1
图案14	173-184							2
图案15	185-195							3
图案16	196-207							4
图案17	208-219							5
图案18	220-231							6
图案19	232-243							7
图案20	244-255							8

10. Maintenance

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.

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.

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.

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



光学安全

Optical security

Product common breakdown comparison table	
breakdown cause	Major breakdown analysis and solution
The fixture no light or no work	<ol style="list-style-type: none"> 1. Check the power cable whether to connect the fixture, whether the fuse does burn out. 2. Check the input voltage whether to assign the voltage match with the fixture.
No sound control	<ol style="list-style-type: none"> 1. Check the address code or the display whether establishes according to the instruction booklet is the voice control pattern. 2. Check the potentiometer possibly moves is smallest, attempt to adjust the potentiometer.
The fixture can bright normally, but it not controlled by controller	<ol style="list-style-type: none"> 1. Please check the fixtures' DIP outlet address setting whether correctly. 2. Please check the XLR signal cable whether be damage.
Master-slave mode, The master mode is normal, but slave mode is not normal	<ol style="list-style-type: none"> 1. Please confirmed only one for the master and the master without DMX be connected, and to set master as sound control or auto pattern. 2. If the Master-slave setting is right but still have problem, please check the XLR connect cable.
The button malfunction, does not work.	<ol style="list-style-type: none"> 1. Check the buttons whether to have some button not to have the normal reset.
The fixtures' brightness obvious dim	<ol style="list-style-type: none"> 1. Check the LED tubes or the light already whether to be service life. 2. Check the internal and external optical system whether to be clean.
If above method cannot eliminate the fault, please consult the dealer.	