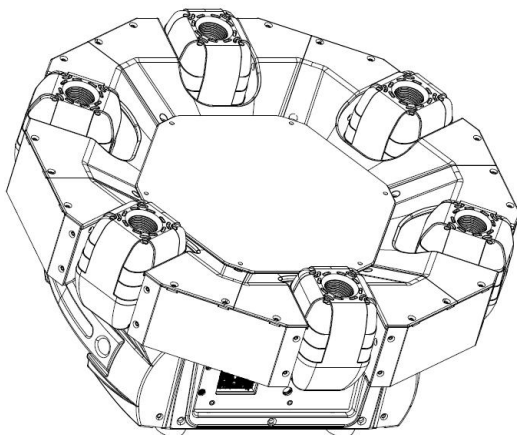


USER MANUAL



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 packed in a good condition when leaving the factory. Please operate according to the user manual. The machine failure caused by artificial damage are not covered by the warranty.

1. Before using the product, please open it 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 rope when fixing the equipment and lift the bottom of the lamp when moving it.
4. The device must be installed in a well-ventilated place, at least 50cm from the proximal surface.
5. Ensure that the ventilation hole is unobstructed to avoid overheating when the lamp is running.
6. Before running, ensure that the power supply voltage is consistent with the required power supply voltage.
7. Please ground the conductor to prevent electric shock.
8. Do not place combustible articles near the lamp when it is running to prevent fire risk.
9. Before opening the lamp, please carefully check whether the power cable is damaged. If it is damaged, please replace it immediately.
10. Avoid flammable liquid, water, metal and other electrical conductors entering the lamp to avoid electric shock or fire. If foreign matter enters the lamp, cut off the power supply immediately.

11. Avoid operating lamps in dirty and dusty environment, and clean and maintain lamps regularly.
12. Do not touch the wire when the lamp is running to prevent electric shock.
13. Avoid entangling power cables with other wires.
14. Do not open the shell of the lamp without permission.
15. Please cut off the power supply when the lamp is not used or maintained for a long time.
16. Do not look directly at the lamp 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

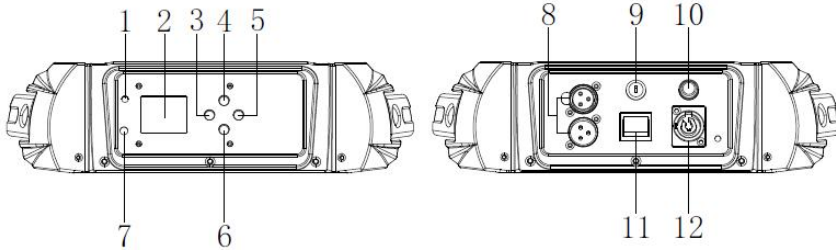
3. Installation Notes

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 newspaper, 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

- Power supply: AC 110~220V 50/60Hz, 140W@220V
- Light color: ✪RGB
- Working mode: Auto/DMX512/ master-slave/Sound
- DMX Control Channel: 25CH/55CH
- Control interface: 3 pin DMX512 (IN/OUT)
- Horizontal axis travel: infinite scanning range
- Single axis stroke: 0-150 degree scanning range
- Cool system: low noise air cooling
- Working environment: indoor
- Working temperature: 0°C - 35°C

5. Light Control Panel



No.	Interface	
1	Red indicating light	NO light/ normal light, The device system is in the dead state
		Flash : The equipment system is running normally
		Flash fast: The safety electronic lock of the device is not enabled
	Green indicating light	NO light: No DMX512 signal detected
		Flash: DMX512 signal detected
	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		
2	Menu	
3	O MENU	
4	▲ UP	
5	● ENTER	

6	▼ DOWN
7	MIC
8	XLR 3 pin DMX-512 Interface (IN/OUT)
9	Safety key switch
10	Fuse
11	Power switch
12	220V power input

6. Light Setting

Open 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 OLED display control panel function menu setting ,as following:

Menu	Secondary Menu	Third Menu	
Operation	DMX-512	DMX Address	address setting (1-512)
		Channel	25/55CH
		Channel value view	CH1—CH25 (such as 25CH channel value display 1-25)
	Auto mode	Show	001-017 (017 all loop)

		Master-slave	ON/OFF
		Sound	ON/OFF
	Test mode	Auto test	ON/OFF
	User mode	Value setting (CH1-CH55 can customize the value of each channel of the light)	the program like a built-in console, the data will be saved even after default reset , press the reset at user mode to clear the data.
Advanced settings	Motor setup	X axis horizontal reverse	ON/OFF
		Y axis horizontal reverse	ON/OFF
	Other setup	Sound Sensitivity	Default 80
Screen setting	CN/EN	CN/EN	displays Chinese and English options
	screen reverse	ON/OFF	180° rotation of the screen
Reset settings	Motor reset	ON/OFF	
	Reset factory setting	ON/OFF	
	factory setting		Used by factory technicians

Device status	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	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			
Device information	running mode	Current device work mode	
	CH mode	Current device channel value	
	address	Current device address	
	effect version	Current device effect version	

DMX512

Select DMX512 mode press ●ENTER key to confirm, the current mode will be displayed on the display, press the "●ENTER" button, use ▲UP, ▼DOWN button to select the number of channels according to the required effect of DMX control, channel mode has two kinds: 25CH/55CH channel mode. After setting, if you need to view the value of each channel, press ▲UP, ▼DOWN button to select the channel value and view the access channel. Console mode is slave mode at the same time. If DMX512 console signal is connected, it is console mode. Press the ●ENTER key to save, and press the MENU button to return to the upper-level menu.

Auto mode

Select the Auto mode, press the ●ENTER key to confirm, the current mode will be displayed on the display screen, press the "●ENTER" button, use ▲UP, ▼DOWN button to select 17 kinds of built-in effect auto mode, the 17th is all effect loop play. If you need to use ▲UP, ▼DOWN button to select the primary and secondary Settings ON /OFF off. You can also choose a voice-activated trigger to play the selection effect. Press the ●ENTER button to save, and press the MENU button to return to the upper-level menu.

Test mode

Select the test mode, press the ●ENTER key to confirm, the current mode will be displayed ON the screen, automatic test is a special mode, only after entering the automatic test interface can be called, by ▲UP, ▼DOWN button to select ON/OFF to open automatic check whether there are problems with the lamp, After exiting the interface, resume the

previous operation mode and press the MENU button to return to the upper-level menu.

User mode

Select User mode and press ●ENTER to confirm. The current mode will be displayed on the screen. Channel CH1~CH48, press the ●ENTER to determine the button through the ▲UP, ▼DOWN button to select 0~255 value setting press ▼DOWN touch the button button for the next channel setting, through the operation needs the numerical effect to set the lamp (user mode setting data: Restore factory Settings data unchanged, such as clear data press the reset option) press the ●ENTER button to save, press the MENU button to return to the previous level of menu.

Advanced Settings

Select advanced Settings, press the ●ENTER key to confirm, ▲UP, ▼DOWN key to select motor Settings/other Settings, Settings press the ●ENTER button to save, press the MENU button to return to the upper level menu.

1. Motor setting: Select the motor setting, press the ●ENTER key to confirm, the current mode will be displayed on the display screen, use ▲UP, ▼DOWN button to select, X motor horizontal reverse setting, set the motor running direction to positive (clockwise), or reverse (counterclockwise); Y The motor is set horizontally and in reverse. The operation direction of the motor is set as forward (clockwise) or reverse (counterclockwise). Press the ●ENTER button to save, and press the MENU button to return to the upper-level menu.

2. Other Settings: Select scanning Settings, press the ●ENTER key to

confirm, the current mode will be displayed on the display screen, use ▲UP, ▼DOWN button to select, voice sensitivity 000-100 default value 80; Press the ●ENTER button to save, and press the MENU button to return to the upper-level menu.

Display Settings

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

Reset setting

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

Device status

Select the device status, press the ●ENTER button to confirm, the current mode will be displayed ON the display screen, use ▲UP, ▼DOWN button to check: 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 wrong); Equipment hardware information

- batch of the program board, equipment software information - version of the program, control board - control board program version number (you can judge whether the information of the control board is read). After viewing, press the MENU button to return to the upper-level menu.

Device information

Select the device information, press the ●ENTER key to confirm, the current mode will be displayed on the screen, use ▲UP, ▼DOWN buttons to view the system information

Operation mode: the working mode of the current lamp;

channel mode: the channel mode of the current device;

Address code: the working address of the current lamp;

Effect version: the effect version played by the current device; press the MENU button to return to the upper-level menu after viewing.

7. Light Control mode

① DMX512 control mode:

1. Set the DMX512 address code, the lamp will receive the standard DMX512 signal
2. Set the corresponding channel control mode

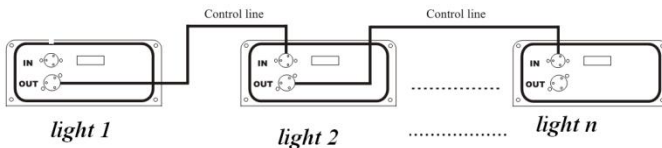
② Auto mode:

When the lamp does not receive the external signal, the device can choose the built-in program effect to run automatically. At the same time, you can also select the voice control mode to trigger the playback.

③ master/slave mode:

Master -- main menu ▲UP, ▼DOWN key enter select "operation mode" - Play mode menu host set ON (default is OFF), at this time for the host lamp. ●ENTER save, MENU button back to the upper menu.

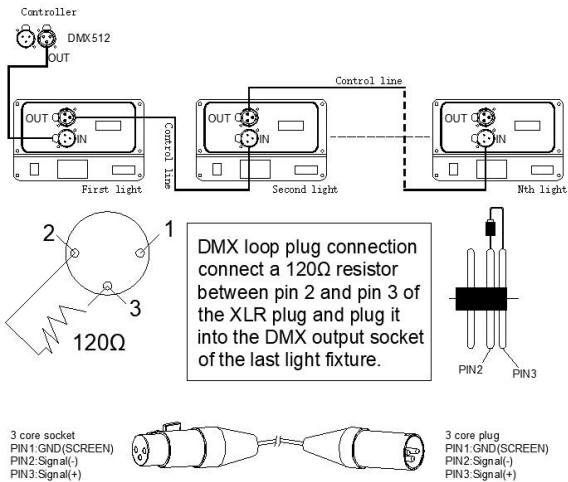
Slave machine -- MENU ▲UP, ▼DOWN button enter select "Operation mode" - Play mode menu host set to OFF (default is OFF), press the menu button to return to the previous level of menu.



④ User mode: Fixture channel can be controlled through the operation interface.

8. DMX512 Control

8.1 DMX512 Connect



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 light with XLR signal, one end is connected to the output port of the light, and the other end is connected to the input port of the next light. 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 light 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:

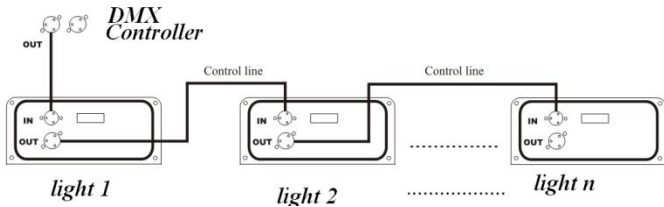
3 pin XLR: PIN1: GND, PIN2: - Signal , PIN3: + Signal

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

8.2 DMX512 Chanel setting:

Press ●ENTER button to enter menu mode, use ▲UP, ▼DOWN key select "DMX512 mode" channel mode (25CH/55CH), select the channel mode you need, address code settings. ●ENTER save, MENU button back to the upper menu.

Connect the XLR control line from the DMX outlet of the controller to the DMX input port of each lamp, and so on until all lamps are connected, and then connect the loop plug to the signal outlet of the last lamp to complete the connection, as shown in the figure below:



When using any controller, each device must have its own address code. Therefore, when the address of the first lamp is set as 1 and the address code of the second lamp is set as 26/56, the address code of the first fixture is set as 1 plus 25/55 channel, and the third fixture is set as

51/111. And so on (this setting also needs to be determined according to different console, now only according to the general convention).

The specific DMX-512 signal control mode address code settings are as follows:

Light NO.	Start Address	Display (ON)
1	1	1
2	26/56	026/056
3	51/111	051/111
⋮	⋮	⋮

8.3 DMX-512Channel introduce:

This fixture has two channel modes 25CH/55CH (DMX mode), description as follow:

1. 25CH mode as following:

Channel	value	control content
CH1	0~255	Total brightness (light source channel is closed, motor channel is controllable)
CH2	0~3	no effect (strobe)
	4~34	open pulse(Turn on and turn off quickly)
	35~65	(From slow to fast)
	66~96	closing pulse(Turn off and turn on quickly)
	97~127	(From slow to fast)
	128~158	open pulse + burst(Gradually open fast close with flash)
	159~189	(From slow to fast)
	190~220	closing pulse + burst(Gradually open fast close with flash)

	221~251 252~255	(From slow to fast) strobe(square wave) (From slow to fast) strobe + burst(Square & flash) (From slow to fast) shutter(strobe) (From slow to fast) shutter + random(Random stroboscopic) (From slow to fast) no effect
CH3	0~255	Soft Light
CH4	0~255	Red light brightness regulation
CH5	0~255	Green light brightness regulation
CH6	0~255	Blue light brightness regulation
CH7	0~1 2~127 128~143 144~159 160~175 176~191 192~207 208~223 224~239 240~255	No effect (matrix graphics) Graphic selection + Rotate effect Fade color graphic selection + rotation effect Crescendo graphic selection + rotation effect Crescendo graphic selection + Rotate effect Graphic selection + move effect Fading graphic selection + move effect Crescendo graphic selection + move effect Crescendo graphic selection +move effect invalid
CH8	0~1 2~128 129~255	Static (graphic dynamic velocity) Forward from fast to slow Slow to fast in reverse
CH9	0~3 4~195 196~255	Colorless (background color) From red to purple From slow to fast rainbow colors

CH10	0~3	Colorless (color mixing macro function)
	4~87	RGB macro red -> Green -> blue -> red loop
	88~171	Custom macro (for use with RGB general dimming)
	172~255	Color mixing macro (color mixing, each light source gives a different color)
CH11	0~14	Invalid
	15~29	Motor action macro function 01 (speed from slow to fast)
	30~44	Motor action macro function 02 (speed from slow to fast)
	45~59	Motor action macro function 03 (speed from slow to fast)
	60~74	Motor action macro function 04 (speed from slow to fast)
	75~89	Motor action macro function 05 (speed from slow to fast)
	90~104	Motor action macro function 06 (speed from slow to fast)
	105~119	Motor action macro function 07 (speed from slow to fast)
	120~134	Motor action macro function 08 (speed from slow to fast)
	135~149	Motor action macro function 09 (speed from slow to fast)
	150~164	Motor action macro function 10 (speed from slow to fast)
	165~179	Motor action macro function 11 (speed from slow to fast)
	180~194	Motor action macro function 12 (speed from slow to fast)
	195~209	Motor action macro function 13 (speed from slow to fast)
	210~224	Motor action macro function 14 (speed from slow to fast)
	225~239	Motor action macro function 15 (speed from slow to fast)
240~255	Motor action macro function 16 (speed from slow to fast)	
CH12	0~255	Horizontal Angle selection (0°-540°)
CH13	0~255	pan fine
CH14	0~127	Horizontal initial position (horizontal infinity)
	128~189	Counterclockwise rotation, from fast to slow

	190~193	stop
	194~255	Clockwise rotation, from slow to fast
CH15	0~255	Vertical (six-axis) overall Angle (0°-180°)
CH16	0~255	Vertical (six-axis) overall fine tuning
CH17	0~255	Motor speed selection (CH12/CH14/CH15 only)
CH18	0~127	non-function
	128~255	Stay for 5 seconds to reset the motor
CH19	0~255	LED
CH20	0~255	LED Red
CH21	0~255	LED Green
CH22	0~255	LED Blue
CH23	0~255	LED Flash
CH24	0~255	LED Macro function (one effect for every 3 values, 85 in total)
CH25	0~255	LED macro function speed (slow to fast)

2. 55CH mode as following:

Channel	value	control content
CH1	0~255	Total brightness (light source channel is closed, motor channel is controllable)
CH2	0~3	no effect (strobe)
	4~34	open pulse(Turn on and turn off quickly)
	35~65	(From slow to fast)
	66~96	closing pulse(Turn off and turn on quickly)
	97~127	(From slow to fast)
	128~158	open pulse + burst(Gradually open fast close with flash)
	159~189	(From slow to fast)

	190~220 221~251 252~255	closing pulse + burst(Gradually open fast close with flash) (From slow to fast) strobe(square wave) (From slow to fast) strobe + burst(Square & flash) (From slow to fast) shutter(strobe) (From slow to fast) shutter + random(Random stroboscopic) (From slow to fast) no effect
CH3	0~255	Soft Light
CH4	0~255	Red light brightness regulation
CH5	0~255	Green light brightness regulation
CH6	0~255	Blue light brightness regulation
CH7	0~1 2~127 128~143 144~159 160~175 176~191 192~207 208~223 224~239 240~255	No effect (matrix graphics) Graphic selection + Rotate effect Fade color graphic selection + rotation effect Crescendo graphic selection + rotation effect Crescendo graphic selection + Rotate effect Graphic selection + move effect Fading graphic selection + move effect Crescendo graphic selection + move effect Crescendo graphic selection + move effect Invalid
CH8	0~1 2~128 129~255	Static (graphic dynamic velocity) Forward from fast to slow Slow to fast in reverse
CH9	0~3 4~195	Colorless (background color) From red to purple

	196~255	From slow to fast rainbow colors
CH10	0~3 4~87 88~171 172~255	Colorless (color mixing macro function) RGB macro red -> Green -> blue -> red loop Custom macro (for use with RGB general dimming) Color mixing macro (color mixing, each light source gives a different color)
CH11	0~14 15~29 30~44 45~59 60~74 75~89 90~104 105~119 120~134 135~149 150~164 165~179 180~194 195~209 210~224 225~239 240~255	Invalid Motor action macro function 01 (speed from slow to fast) Motor action macro function 02 (speed from slow to fast) Motor action macro function 03 (speed from slow to fast) Motor action macro function 04 (speed from slow to fast) Motor action macro function 05 (speed from slow to fast) Motor action macro function 06 (speed from slow to fast) Motor action macro function 07 (speed from slow to fast) Motor action macro function 08 (speed from slow to fast) Motor action macro function 09 (speed from slow to fast) Motor action macro function 10 (speed from slow to fast) Motor action macro function 11 (speed from slow to fast) Motor action macro function 12 (speed from slow to fast) Motor action macro function 13 (speed from slow to fast) Motor action macro function 14 (speed from slow to fast) Motor action macro function 15 (speed from slow to fast) Motor action macro function 16 (speed from slow to fast)
CH12	0~255	Horizontal Angle selection (0°-540°)
CH13	0~255	pan fine
CH14	0~127	Horizontal initial position (horizontal infinity)

	128~189 190~193 194~255	Counterclockwise rotation, from fast to slow stop Clockwise rotation, from slow to fast
CH15	0~255	Vertical (six-axis) overall Angle (0°-180°)
CH16	0~255	Vertical (six-axis) overall fine tuning
CH17	0~255	Motor speed selection (CH12/CH14/CH15 channel only)
CH18	0~127 128~255	non-function Stay for 5 seconds to reset the motor
CH19	0~255	Vertical axis 1 motor Angle
CH20	0~255	Vertical shaft 1 motor fine tuning
CH21	0~255	Light source 1 Red light dimming
CH22	0~255	Light Source 1 Green light dimming
CH23	0~255	Light Source 1 Blue Light dimming
CH24	0~255	Vertical axis 2 motor Angle
CH25	0~255	Vertical shaft 2 motor fine tuning
CH26	0~255	Light source 2 Red light dimming
CH27	0~255	Light Source 2 Green Light dimming
CH28	0~255	Light Source 2 Blue Light dimming
CH29	0~255	Vertical axis 3 motor Angle
CH30	0~255	Vertical shaft 3 motor fine tuning
CH31	0~255	Light source 3 Red light dimming
CH32	0~255	Light Source 3 Green light dimming
CH33	0~255	Light source 3 Blue Light dimming
CH34	0~255	Vertical axis 4 motor Angle
CH35	0~255	Vertical shaft 4 motor trimmer

CH36	0~255	Light source 4 Red light dimming
CH37	0~255	Light Source 4 Green Light dimming
CH38	0~255	Light Source 5 Blue Light dimming
CH39	0~255	Vertical axis 5 motor Angle
CH40	0~255	Vertical shaft 5 motor trimmer
CH41	0~255	Light source 5 Red light dimming
CH42	0~255	Light Source 5 Green Light dimming
CH43	0~255	Light Source 5 Blue Light dimming
CH44	0~255	Vertical axis 6 motor Angle
CH45	0~255	Vertical shaft 6 motor trimmer
CH46	0~255	Light source 6 Red light dimming
CH47	0~255	Light source 6 Green Light dimming
CH48	0~255	Light Source 6 Blue Light dimming
CH49	0~255	LED
CH50	0~255	LED Red
CH51	0~255	LED Green
CH52	0~255	LED Blue
CH53	0~255	LED Flash
CH54	0~255	LED Macro function (one effect for every 3 values, 85 in total)
CH55	0~255	LED Macro function speed

9. Maintenance

1. Maintenance should be performed every 15-day period, by using a sponge which is dipped with alcohol, rather than wet cloth or other chemical liquid, to clean the mirror. Always disconnect from the power when the device is not in use or before cleaning it.
2. Cooling fan cleaning: Use compressed air to clean the fan of the device. The fan position plays a vital role in the normal operation of the device. Please ensure the normal operation of the fan.
3. When the equipment is used frequently, the fan should be cleaned every 1 month, or in a dusty and oily environment, the number of cleanings should be increased. The actual operation should be implemented according to the application environment of the equipment to ensure the normal operation of the fan.
4. Internal optical cleaning: cleaning internal optical components requires professional authorized technicians to operate. Incorrect cleaning techniques or improper cleaning choices can cause serious damage to the equipment. Since the optical part and the rest of the light source system are separated and sealed, this operation should not be performed more than once a year.

10. Warning and Declaration

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



电学安全

Electrical safety



光学安全

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 out 2. Check the input voltage whether to assign the voltage match with the light. <p>Check work order is normal reset or not.</p>
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 by the controller	<ol style="list-style-type: none"> 1. Check whether the start address code of the display screen of the light is set correctly. 2. Check whether the XLR signal is damaged.
Master-slave synchronization mode, the master is normal, and the slave is abnormal	<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	<ol style="list-style-type: none"> 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.	