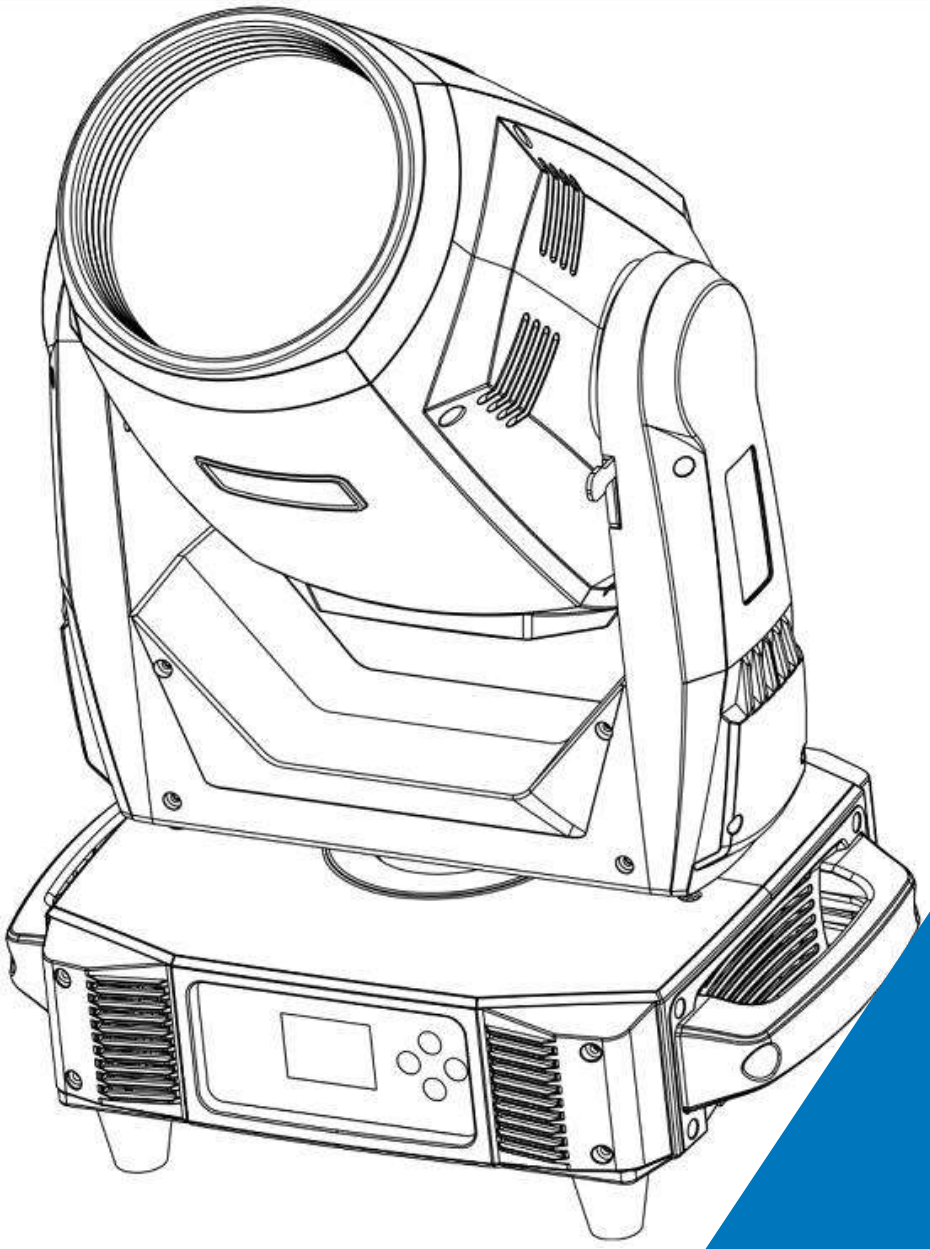
BEAM 380W

TV-N380BEAM



User manual Please read this instruction carefully

Contents

1. Safety Instruction

Warning

Please read this manual carefully. It contains important information about installation, use and maintenance.

Please read this instruction carefully before using this product.。
Please keep this manual as a reference for future consultation， If you sell this product to other users, please make sure they also get this manual.
Please use it correctly on the basis of full understanding of the content.

Notice：

The equipment is packed in good condition when leaving the factory. Please operate it according to the user's manual. The machine failure caused by human factors is not covered by the warranty.

- Before using the product, please open it and check carefully,to ensure that there is no damage caused by transportation.
- This fixture is only suitable for indoor dry places.
- The installation and operation of the fixture,should be carried out by professionals.
- Do not let children operate the fixture.
- Use secure ropes when fixing the device, and hold the bottom at the same time when moving the fixture.
- The equipment must be installed in a well-ventilated place, at least 50 cm away
- from the adjacent surface.
- Make sure the ventilation holes are clear to avoid overheating when the fixture is running.
- Before operation, make sure that the power supply voltage matches the power supply voltage required by the fixture.
- Please ground the conductor to prevent electric shock.
- Ambient temperature: Do not operate the fixture below -25°C or above 45°C.
- It is forbidden to connect the fixture directly to the dimming equipment.
- Do not place combustible materials within 1 meter of the fixture When it is running, , to avoid fire hazard.
- Please carefully check whether the power cable is damaged before turning on the fixture, and replace it immediately if there is any damage.
- The surface temperature of the fixture can reach 55℃ during operation, please do not touch it with bare hands.
- Avoid operating in dirty and dusty environments, and clean and maintain the fixture regularly.
- It is forbidden to touch the wire when the fixture is running to prevent electric shock.
- Avoid entanglement of the power cable and other wires
- The distance between the fixture and the illuminated surface should be greater than 15M。
- Disconnect the power supply before replacing the fuse or bulb.

- Use the same model when replacing fuses or bulb.
- There is a serious operation failure, please stop using it immediately。
- Do not turn on the fixture repeatedly.
- Please replace the lamp housing, lens or ultraviolet filter when there is obvious damage.
- There are no available parts inside the fixture, please do not open thefixture housing without permission
- Do not operate the machine by yourself. Operation by non-professionals will cause damage to the device or malfunctions.If you need maintenance, please contact the nearest authorized service center.
- Please turn off the power when the fixture is not used for a long time or maintenance.
- When shipping again, please use the original packaging material.
- To avoid fire or electric shock, do not expose the fixture to rain or wet areas.
- There is a danger of explosion due to high temperature bulbs. Please do not turn on the lamp within 15 minutes after power off.
- Please replace the bulb in time if the bulb is damaged, deformed by heat or exceeds the service life
- Do not stare at the fixture directly during operation
- The bulb will be very hot when the fixture is running. Do not touch the bulb with bare hands.
- The plug must be grounded when the fixture is in operation.
- Don't operate the fixture when the bulb has no protective cover or the housing is damaged

2. Technical Specifications

Power supply：

100~240V，50/60Hz

Power rated：

530W

Bulb：

SIRIUS HRI ® 371W （Lamp rated life：1500H）

Color temperature：

7650K

Power off display function：

DMX address and other menu function can be set when power is off

Automatic charging when power on

No need to change the battery

Optical System：

Efficient optical system

Powerful light output

High quality optical lens

Movement：

Horizontal：540°

Vertical：270°

The speed of horizontal/vertical movement can be adjusted.

Automatically horizontal/vertical correction.

Optocoupler positioning function for easy initial position correction and maintenance

Vertical locking function to prevent damage to lamp during transportation

Dimming/strobe:

0%~100% smooth dimming, multiple

speed strobe effect

Color wheel:

Color wheel：2 color wheel,each has 11 color+white. Two-way rainbow effect

Fixed Gobo Wheel:

Gobo Wheel:1 fixed gobo wheel, 14 gobo+white. Magnetic positioning function for easy initial.

Prism:

Prism1: 48 prisms that can be rotated and overlapped in two-way

Prism2: T prism(symmetrical) that can be rotated and over lapped in two-way

Prism3: 24 honeycomb prism that can be rotated and overlapped in two-way

Prism4: 16 prism that can be rotated and overlapped in two-way

Prism5: 8 prism that can be rotated and overlapped in two-way

Prism6：Fog

Focus:

Electronic linear focusing

Heat dissipation:

Fan cooling

General controller:

DMX 512 controller

DMX signal input/output: 3-pin XLR signal

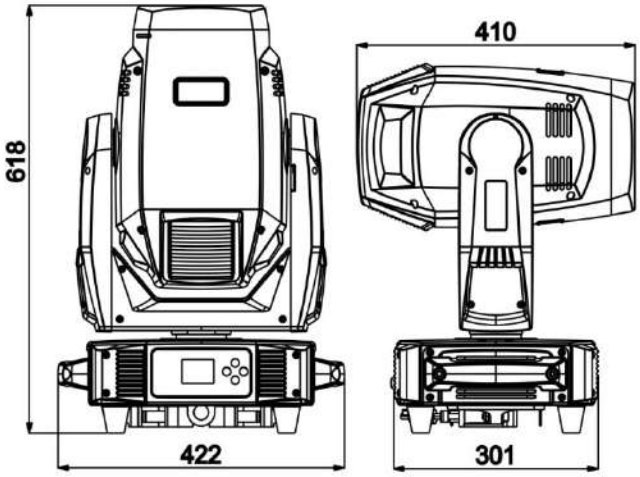
line interface

N.W:

22.4Kg

G.W（Carton）:

26.5Kg

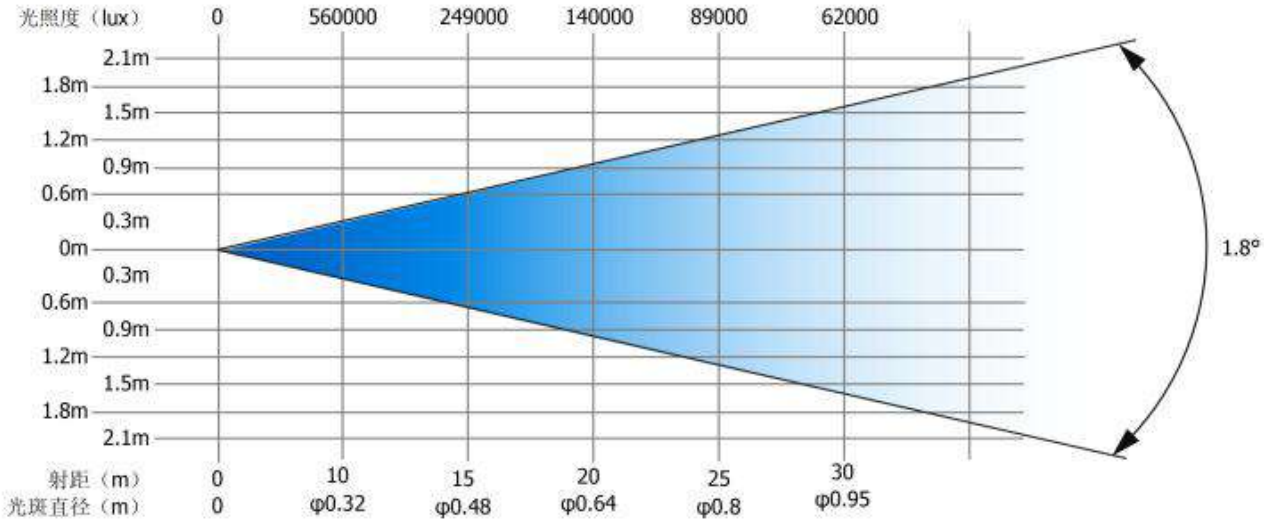


Dimension:

618× 422 × 301mm

Product Illumination Chart

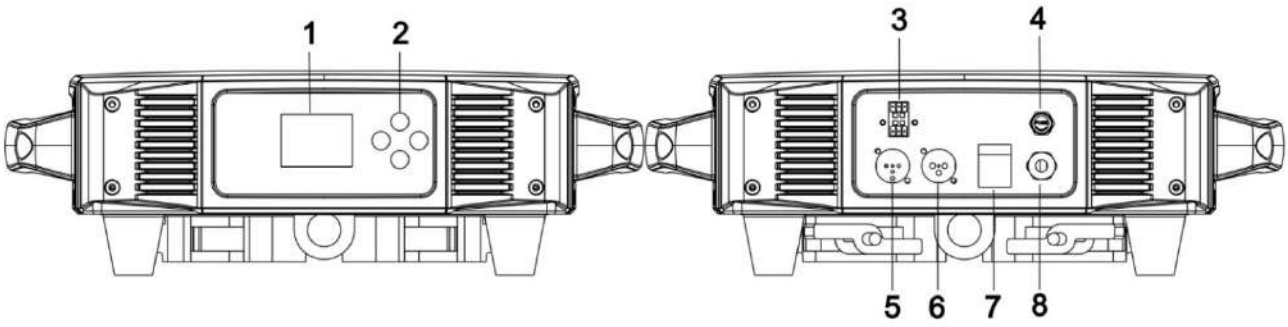
●照度表



3. Description

3.1 Control Panel

Front panel **Back panel**



1. **Display screen**：Display various function menus；
2. **Button**：

MENU	Return
▲ **DOWN**	To the next option
▼ **UP**	Go to previous option
ENTER	Enter menu selection function\Confirm selected function

3. **Phoenix Plug**：For DMX transfer；
4. **Fuse (T 8A)**：

Overcurrent protection；

5. **DMX Input**：

For DMX 512 connection, use 3-pin XLR signal cable to connect the fixture and DMX console, and input DMX signal；

6. **DMX Output**：

Used for DMX 512 connection, use 3-core XLR signal cable to connect to the next machine;

7. **Power Switch**：

Turn the power on or off。

8. **Power Cable**：

Connect to power supply；

4. Lamp Bulb

4. 1 lamp bulb

SIRIUS HRI ® 371W

There is high voltage inside the bulb,which may break during operation.The ultraviolet light emitted by the bulb is harmful to the eyes and skin.Do not stare directly at the fixture during operation.

1 In order to protect the fixture, please turn off the fixture first when turning off the lamp, and then disconnect the power after running for at least 5 minutes.

2 Do not touch the bulb with bare hands. Once touched by hand, wipe with alcohol and then dry with soft linen.

3 When the lamp is on, the bulb operates under high pressure, so there is a risk of rupture. The degree of danger is related to the length of use time, temperature and unreasonable operation and other factors. Therefore, please do not use bulbs that exceed the service life.

4 Make sure the bulb is installed in the center to ensure the best results

5. Fixture settings

5.1 Main Function

Turn on the machine, press the ENTER button to enter the menu mode, use the UP and DOWN buttons to find the menu, when the preset menu is displayed on the display, press the ENTER button to confirm, use the UP and DOWN buttons to select the submenu, press the ENTER button to save the setting Automatically return to the previous menu. Press the MENU button to return, or wait 30 seconds and automatically exit the menu mode.

When there is no power connection, press the MENU button for 3 seconds to enter the menu mode. After setting, press the ENTER button for 1 second or wait for 40 seconds and then automatically exit the setting function after power off.

Main menu page：

The main function show as below:

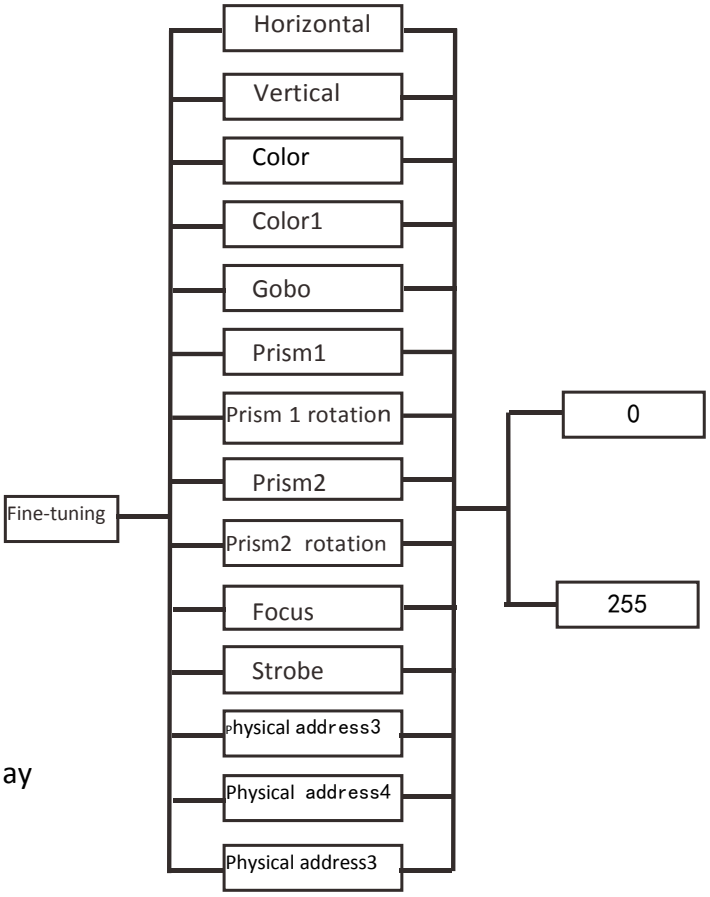
Menu function				
Level 1 menu	Level 2 menu	Level 3 menu	Level 4 menu	Level 5 menu
Set address	0-512			
Advanced settings	Horizontal reversal	Yes/No		
	Vertical reversal	Yes/No		
	Display screen reverse	Yes/No		
	Display screen automatically reverse	Yes/No		
	The display is always bright	Yes/No		(Default delay off)
	Horizontal angle	180°/360°/540°		(Factory default 540°)
	Vertical angle	90°/180°270°		(Factory default 270°)
	Wireless link	Yes/No		
	Voice	Chinese/English		(Factory default Chinese)
	Error message	Yes/No		
	Factory settings			
Operating mode	Select channel mode	Full mode 24（CH）	Yes/No	(Factory default)
		Full mode 18（CH）	Yes/No	
		Lite mode 15（CH）	Yes/No	
	View the current channe	horizontal	0-255	
		.....		
		Functional channel		

	Manual control of Fixture	automatic testing		
		Manual test	Horizontal	0-255
			Vertical	0-255
			.....	0-255
			Strobe	0-255
		Fixture reset	Horizontal and Vertical	Yes/No
			Color	Yes/No
			Gobo	Yes/No
			Strobe	Yes/No
			Focusing and prism	Yes/No
			All	Yes/No
		Built-in program	Built-in program1	Yes/No
			.....	Yes/No
			Built-in program9	Yes/No
System message	Device version number			
	Equipment temperature			
	Fan speed			
	Error detection			
	Equipment running time			
	Lamp time			
Lamp control	Bright light bulb	Yes/No		
	Turn on the electric light bulb	Yes/No		
	Console control light bulb	Yes/No		
	Turn on lamp delay	0-535		
	Half power delay	0-535		
	Reset lamp time	Yes/No		
	Lamp maintenance	internal use	0-255	
		Remaining maintenance time	Repeat/no	
Application	Service Contact			

service	Equipment maintenance times			
	Equipment fine-tuning calibration			
	Device data clear			
	Equipment usage records			

Device fine-tuning settings

Select the **device fine-tuning setting**, press the **ENTER** button to confirm, the device fine-tuning setting (password: 1212), enter the initial setting menu to adjust the initial position of each motor. Press the **ENTER** button to confirm. Use the **UP/DOWN** button to select the submenu, press the ENTER button to save and automatically return to the previous menu. Press the **MENU** button to exit.



5.2 Error message

Temperature error

The temperature detection board may be damaged.

Fan error

The fan and its control parts may be broken.

Magnetosensitive error

For the magnetic sensitive function part may be broken.

Optocoupler error

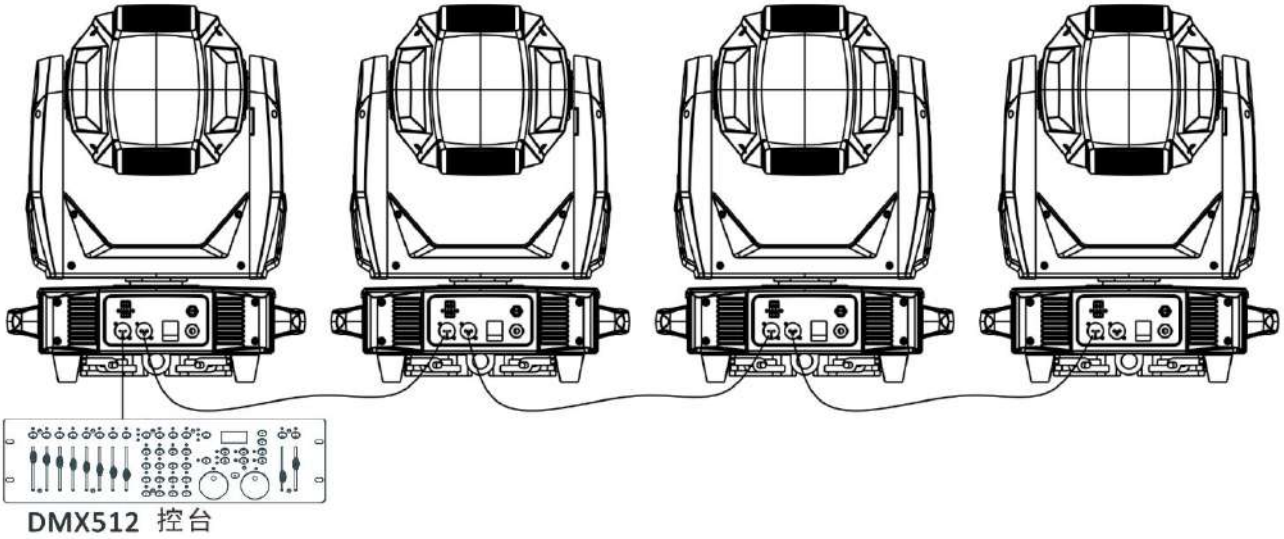
Optocoupler and its control part may be broken.

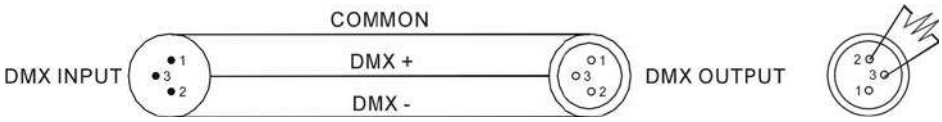
The above situation may occur when the Fixture is turned on or reset, some parts may be damaged.

Please contact an authorized service center.

6. Universal DMX controller control

6.1 Connection





1 In order to reduce signal errors and avoid signal attenuation and interference during transmission, a 90-120Ω (0.25W) resistor can be added between the 2-core and 3-core of the DMX output of the last machine.

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

3 When the machine power supply of a unit is disconnected, the connection of DMX output and input is bypassed in order to maintain the connection of the DMX line.

4 Each lamp must have an address code, which can receive the information sent by the console, and the range is 0-511 (usually 0&1 and 1 are the same).。

5 The terminal of the DMX512 system needs to be equipped with a terminal to reduce errors in signal transmission.

6 3-pin XLR connector:

3 core XLR: PIN 1: GND, PIN 2: negative signal, PIN 3: positive signal.

6.2 Channel settings

Press the ENTER button to enter the menu mode, select the operating mode → select channel mode, press the ENTER button to confirm, the current channel mode will flash on the display, use the UP and DOWN buttons to select the full mode 24 (CH), press the ENTER button to save. Press the MENU button to return to the previous menu or wait 30 seconds and automatically exit the menu mode.

6.3 Address code setting

When using a general DMX controller to control fixture, you need to set the starting address (1-512) for the fixture so that the machine can receive DMX signals.

Press the ENTER button to enter the menu mode, select the DMX function, press the ENTER button to confirm, the current address will flash on the display, then use the UP/DOWN button to select the address code (1-512), press the ENTER button to save. Press the MENU button to return to the previous menu or wait 30 seconds and automatically exit the menu mode.

Please refer to the following chart to set the address codes of the first 4 fixtures

Channel mode	Fixture 1 address code	Fixture 2 address code	Fixture 3 address code	Fixture 4 address code
Full mode (24 channels)	1	25	49	73
Standard mode (18 channels)	1	19	37	55
Lite mode (15 channels)	1	16	31	46

6.4 DMX 512 channel

Please refer to the following channel diagram to control

Notice：

1. If the DMX signal is cut off, the fixture will remain in the state before the signal was cut off, unless reset.

Channel chart:

Full mode 24 （CH）	Standard mode 18 （CH）	Lite mode (15 （CH）	Channel name	Channel value	Features
1	1	1	**Horizontal**	000-255	0-540 degree
2	2		**Horizontal**	000-255	16bit Adjustable
3	3	2	**Vertical**	000-255	0-270 degree
4	4		**Vertical**	000-255	16bit Adjustable

5	5	3	**XY speed**	000-255	From fast to slow
6	6	4	**Dimming**	000-255	Light spot from dark to light
7	7		**Dimming fine-tuning**	000-255	16bit adjustable
8	8	5	**Strobe**	0-7	No function
				8-15	Open
				16-131	Synchronous strobe, from slow to fast
				132-167	Fast closing and slow opening, from slow to fast
				168-203	Slow to close and fast to open, from slow to fast
				204-239	Pulse strobe, from slow to fast
				240-247	Random strobe, from slow to fast
				248-255	Open
9	9		**Color wheel 1**	0-4	White light
				5-9	Deep red
				10-14	Blue
				15-19	Green
				20-24	Orange
				25-29	Magenta
				30-34	Yellow
				35-39	Cyan
				40-44	Red
				45-49	Navy blue
				50-54	Dark green
				55-59	Yellow-green
				60-61	White light
				62-159	Color position/half color
				160-219	Positive rainbow, from fast to slow
				220-223	Stop
				224-255	Reverse rainbow, from slow to fast

10	10	7	**Color wheel 2**	0-4	White light
				5-9	Plum red
				10-14	Light blue
				15-19	Light green
				20-24	Orangered
				25-29	Brownish yellow
				30-34	light yellow
				35-39	Iridescent
				40-44	Light blue purple
				45-49	CTB
				50-54	CTO 3200K
				55-59	CTO 5600K
				60-61	White light
				62-159	Color position/half color
				160-219	Positive rainbow, from fast to slow
				220-223	Stop
				224-255	Reverse rainbow, from slow to fast
11	11	8	**Gobo**	0-3	White light
				4-7	Gobo1
				8-11	Gobo2
				12-15	Gobo3
				16-19	Gobo4
				20-23	Gobo5
				24-27	Gobo6
				28-31	Gobo7
				32-35	Gobo8
				36-39	Gobo9
				40-43	Gobo10
				44-47	Gobo11
				48-51	Gobo12
				52-55	Gobo13
				56-59	Gobo14
				60-63	Gobo14 dithering effect, from slow to fast
				64-67	Gobo13dithering effect, from slow to fast
				68-71	Gobo12dithering effect, from slow to fast
				72-75	Gobo11dithering effect, from slow to fast
				76-79	Gobo10dithering effect, from slow to fast
				80-83	Gobo9dithering effect, from slow to fast
				84-87	Gobo8dithering effect, from slow

					to fast
				88-91	Gobo7dithering effect, from slow to fast
				92-95	Gobo6dithering effect, from slow to fast
				96-99	Gobo5dithering effect, from slow to fast
				100-103	Gobo4dithering effect, from slow to fast

				104-107	Gobo3dithering effect, from slow to fast
				108-111	Gobo2dithering effect, from slow to fast
				112-115	Gobo1dithering effect, from slow to fast
				116-119	White light
				120-189	Dynamic wheel rotates forward, from slow to fast
				190-193	Stop
				194-255	Dynamic wheel reverse rotation, from slow to fast
12			**Prism 1**	0-255	Sixteen prism
13			**Prism 1 rotation**	0-127	Sixteen prism rotation position
				128-189	Forward rotation, from fast to slow
				190-193	Stop
				194-255	Reverse rotation, from slow to fast
14			**Prism 2**	0-255	Three rows of 48 honeycomb prisms
15			**Prism 2 rotation**	0-127	Three rows of 48 honeycomb prism rotation positions
				128-189	Forward rotation, from fast to slow
				190-193	Stop
				194-255	Reverse rotation, from slow to fast
16			**Prism3**	0-255	24 honeycomb prism
17			**Prism3 rotation**	0-127	24 honeycomb prism rotation position
				128-189	Forward rotation, from fast to slow
				Stop	Stop
				194-255	Reverse rotation, from slow to fast
18			**Prism4**	0-255	4 rows of mirrors (symmetrical)
19			**Prism4 rotation**	0-127	4-row mirror (symmetrical) rotation position
				128-189	Forward rotation, from fast to slow
				190-193	Stop
				194-255	Reverse rotation, from slow to fast
20			**Prism5**	0-255	8 prism
21			**Prism5 rotation**	0-127	8 prism rotation position
				128-189	Forward rotation, from fast to slow
				190-193	Stop

				194-255	Forward rotation, from fast to slow

	12	9	12 **Prism wheel 1**	0-15 16-95 96-175 176-255	No function Prism Wheel 1 Effect 1 Prism Wheel 1 Effect 2 Prism Wheel 1 Effect 3
	13	10	**Prism wheel 1 rotation**	0-127 128-189 190-193 194-255	Prism rotation position Forward rotation, from fast to slow Stop Reverse rotation, from slow to fast
	14	11	**Prism wheel 2**	0-15 16-127 128-255	No function Prism Wheel 2 Effect 1 Prism Wheel 2 Effect 2
	15	12	**Prism wheel 2 rotation**	0-127 128-189 190-193 194-255	Prism rotation position Forward rotation, from fast to slow Stop Reverse rotation, from slow to fast
22	16	13	**Focusing**	0-255	Focusing focal length
23	17	14	**Fog**	0-15 16-255	No function Fog
24	18	15	**Functional channel**	0-129 130-139 140-149 150-159 160-169 170-179 180-189 190-199 200-209 210-229 230-239 240-255	No function Turn on the bulb XY Reset Color reset Gobo reset Strobe reset No function Focus/prism reset Reset all No function Turn off the bulb No function

7. Fault Handling

The following are some of the problems that often occur during operation, with some suggestions for Fault Handling:

A. The lamp does not work, there is no light, the fan does not running

1. Check the power contact and whether the fuse is intact.

2. Check the voltage.

3. Check the indicator light of the power switch.

B. Out of the control of the controller

1. Check the DMX signal connector and signal cable to see if they are properly connected.

2. Check whether the address code setting is correct.

3. If the DMX signal transmission is intermittent, check whether the connection between the XLR seat and the signal cable is good.

4. Try it with another controller.

5. Check if the distance between the DMX signal wire and the high-voltage wire is too close, which will damage or interfere with the signal circuit.

C. Channel fails

1. 1. Stepper motor or motor lead may be damaged.
2. 2. The drive circuit of the motor may be damaged.

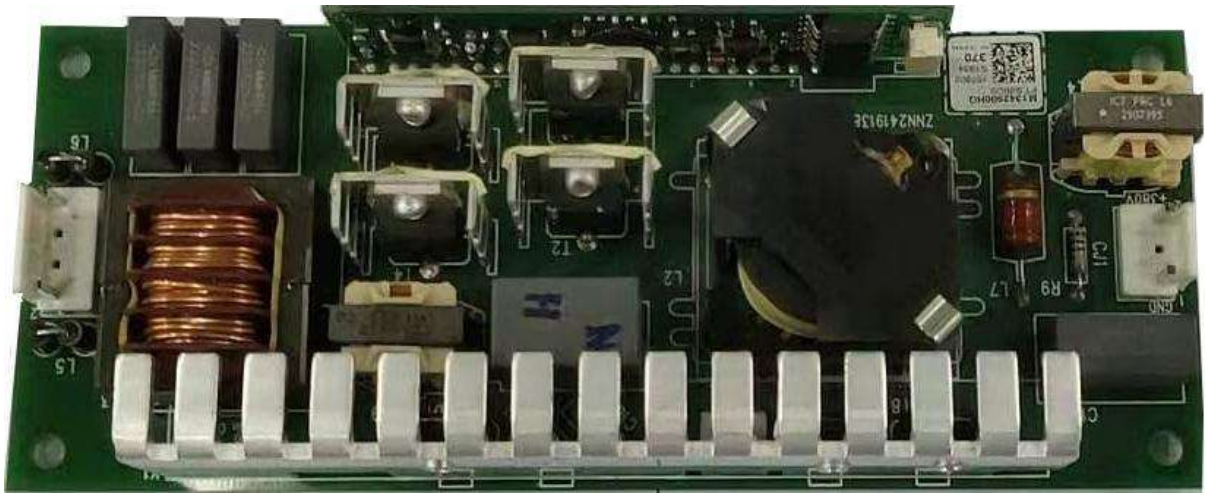
D. Good and bad bulbs

1. 1. The bulb cannot be lit normally. See if the voltage is too high or too low.
2. 2. The internal temperature may be too high. If necessary, replace the cooling fan.

8. Maintenance and cleaning

Maintenance：

Ballast



A. When the color of each wire leg of the ballast turns yellow, please consider replacing it in time.

B. Please be sure to maintain the fixture every 2 months, and make sure that the screws and terminals in the parts shown above are locked and not loose. To ensure performance. Careless maintenance may cause the machine to malfunction.

Clean:

The inside and outside of the lens and the mirror must be wiped frequently, so that the lighting effect is better. The wiping frequency depends on the environment. The damp, smoky, and particularly dirty environment is prone to dusting the lens.

*Use soft linen and special glass scrubbing agent.
* Dry parts carefully.
*Wipe the outside of the lens at least once every 20 days. Wipe the inside at least every 30 days.
The dustproof sponge of the bottom cover must be cleaned at least every 30 days (the specific time depends on the actual environment)