NOUVOLED

VELA 380B

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 insurance 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 more 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,Do not open the lamp housing without authorization

- 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 cover is damaged.

2. Technical   Specifications

Power supply：100~240V，50/60H

Power rated：**550**W（90V）

Bulb：**OSRAM SIRIUS HRI ® 371W S** （Lamp rated life：1500H）

Color temperature：**8000K**

Power off display function：
Connect the USB socket when the power is off, you can enter the menu to set the address code and other settings.

Optical System：Efficient optical system、Powerful light output、High quality optical lens

Movement：
Horizontal：540° （16bit Precision scan）
Vertical：270°（16bit Precision scan）
Reset function with automatic error correction

Dimming/strobe:
0%~100% smooth dimming, multiple speed strobe effect

Color Wheel:
1 color wheel: 13 color + white, half-color effect with bidirectional rotation.

Gobo Wheel:
1 fixed pattern plate: 14 pattern pieces + white, with pattern dithering and pattern arbitrary positioning function.
Magnetic positioning function, convenient for initial position correction and maintenance

Prism:

Prism1:   8 prism that can be rotated and overlapped in two-way

Prism2:   24 honeycomb prism that can be rotated and overlapped in two-way

Focusing angle：Zoom: 1.8°（Fixed focus ）

Fog: Independent fog and soft light effect

Heat dissipation:Fan cooling

General controller:

DMX 512 controller

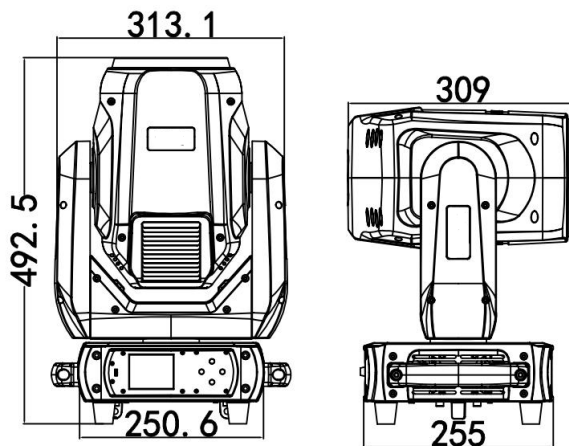DMX signal input/output: 3-pin XLR signal line interface

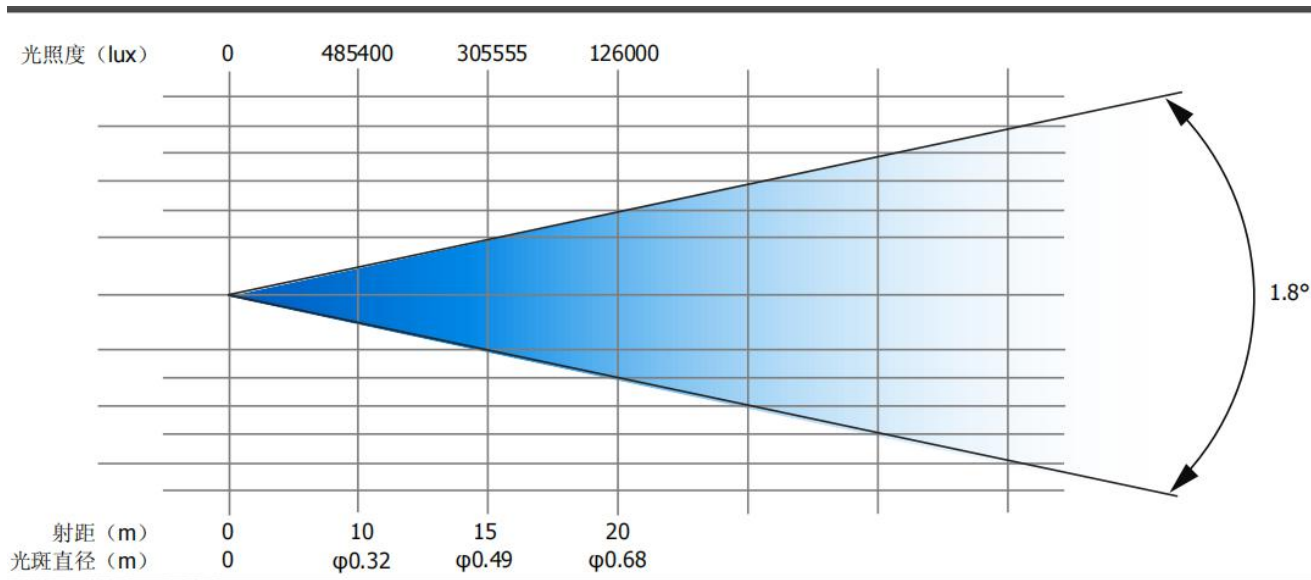**N.W:**14KG

G.W（Carton）:15.5KG

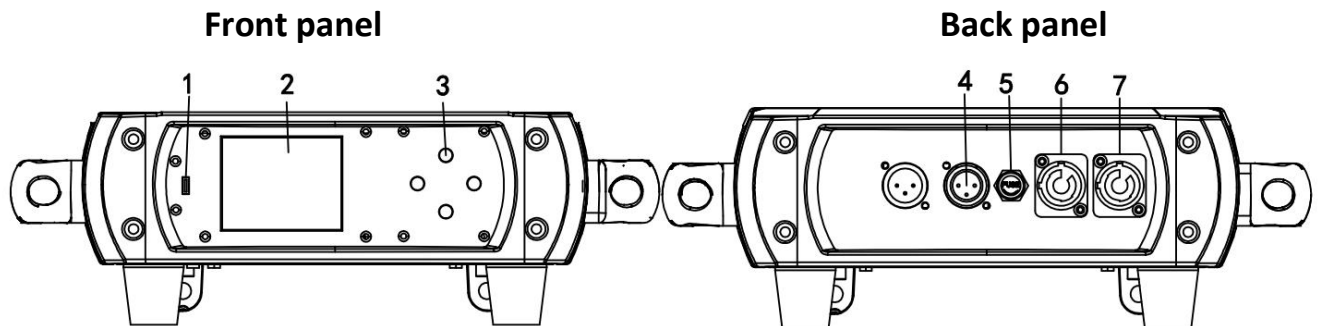**Product Dimension:**

492.5*313.1*255mm

Package Dimension   (Carton):

580× 520 × 405mm

Product Illumination Chart

光照度（lux）	0	485400	305555	126000
射距（m）	0	10	15	20
光斑直径（m）	0	φ0.32	φ0.49	φ0.68

3. Description

Front panel	Back panel

1. **USB socket:** USB connection data.

2. **Display screen:** display function menus, the button will automatically lock the setting after 30 seconds of standby, to prevent operation errors, long press the MENU button for 2 seconds to activate the button.

3. **Button：**

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

4. **DMX Input/ Output：**

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

5. **Fuse：** Over current protection.

6. **Power Input：Connect to power supply.**

7. **Power Output：**

Connect the power supply (110V power supply can connect up to 3 pieces of beam, 220V power supply can connect up to 6 pieces of beam

4. Lamp Bulb

OSRAM SIRIUS HRI ® 371W S

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：

Address Setting	High Level Setting	Running Mode
System Information	Bulb Control	Application Service
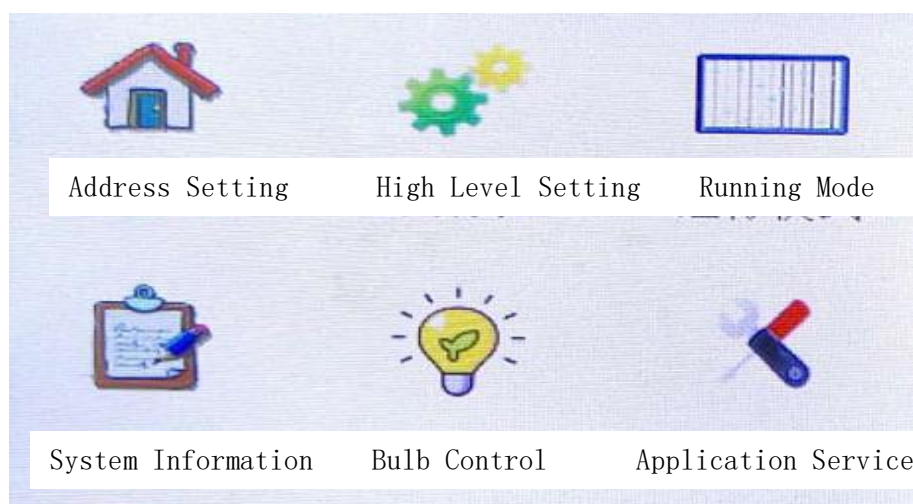
<table>
<tr><td colspan="5" align="center">Menu function</td></tr>
<tr><td>Level 1 menu</td><td>Level 2 menu</td><td>Level 3 menu</td><td>Level 4 menu</td><td>Level 5 menu</td></tr>
<tr><td>Set address</td><td>0-512</td><td></td><td></td><td></td></tr>
<tr><td rowspan="10">Advanced settings</td><td>X axis reversal</td><td>Open/ Close</td><td></td><td>(Default off)</td></tr>
<tr><td>Y axis reversal</td><td>Open/ Close</td><td></td><td>(Default off)</td></tr>
<tr><td>Display screen reverse</td><td>Positive/Reverse /Auto</td><td></td><td>(Default Positive)</td></tr>
<tr><td>The screen is always on</td><td>Open/ Close</td><td></td><td>(Default off)</td></tr>
<tr><td>Optocoupler correction</td><td>Open/ Close</td><td></td><td>(Default on)</td></tr>
<tr><td>Language</td><td>Chinese/ English</td><td></td><td>(Factory default Chinese)</td></tr>
<tr><td>Error message</td><td>Open/ Close</td><td></td><td>(Default on)</td></tr>
<tr><td>Touch screen calibration</td><td>Yes/ No</td><td></td><td></td></tr>
<tr><td>Factory settings</td><td></td><td></td><td></td></tr>
<tr><td>Drop out</td><td></td><td></td><td></td></tr>
<tr><td rowspan="16">Operating mode</td><td rowspan="2">Select channel mode</td><td>Standard mode 16（CH）</td><td></td><td>(Factory default)</td></tr>
<tr><td>Reduced mode 13（CH）</td><td></td><td></td></tr>
<tr><td rowspan="3">View the current channel</td><td>horizontal</td><td rowspan="3">0-255</td><td></td></tr>
<tr><td>·······</td><td></td></tr>
<tr><td>Functional channel</td><td></td></tr>
<tr><td rowspan="11">Manual control of Fixture</td><td>DMX Mode</td><td></td><td></td></tr>
<tr><td>Self-propelled mode</td><td></td><td></td></tr>
<tr><td>Voice mode</td><td></td><td></td></tr>
<tr><td>Scene mode</td><td>automatic/ 1-10</td><td></td></tr>
<tr><td>Master-slave mode</td><td>Auto/Master/Slave</td><td></td></tr>
<tr><td rowspan="6">Scene setting</td><td>Scene selection</td><td>01-10</td></tr>
<tr><td>Scene time</td><td>0.00S</td></tr>
<tr><td>drop out</td><td></td></tr>
<tr><td>X axis</td><td>0-255</td></tr>
<tr><td>....</td><td>0-255</td></tr>
<tr><td>16 Reset function</td><td>0-255</td></tr>
</table>

			X axis/ Y axis	Yes/ No
			Color	Yes/ No
			Gobo	Yes/ No
		Fixture reset	Strobe	Yes/ No
			Focus and prism	Yes/ No
			All	Yes/ No
			drop out	
		drop out		
	drop out			
System message	Device version number			
	equipment status			
	broken record			
	Light source time			
	Equipment running time			
	drop out			
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	
	drop out			
Application service	Service Contact			
	Equipment maintenance times			
	Equipment fine-tuning calibration			
	Device data clear			
	Equipment usage records			
	drop out			

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.

```
                              ┌─────────────────┐
                              │   Horizontal    │
                              ├─────────────────┤
                              │    Vertical     │
                              ├─────────────────┤
                              │     Strobe      │
                              ├─────────────────┤
                              │      Gobo       │
                              ├─────────────────┤
                              │     Color       │
                              ├─────────────────┤
                              │     Prism1      │
                              ├─────────────────┤         ┌───────┐
                              │     Prism2      │         │   0   │
                              ├─────────────────┤         └───────┘
                              │  Prism rotation │
          ┌────────────┐      ├─────────────────┤
          │ Fine-tuning├──────┤     Focus       │
          └────────────┘      ├─────────────────┤
                              │      Fog        │         ┌───────┐
                              ├─────────────────┤         │  255  │
                              │physical address3│         └───────┘
                              ├─────────────────┤
                              │physical address4│
                              ├─────────────────┤
                              │physical address5│
                              ├─────────────────┤
                              │                 │
                              └─────────────────┘
```
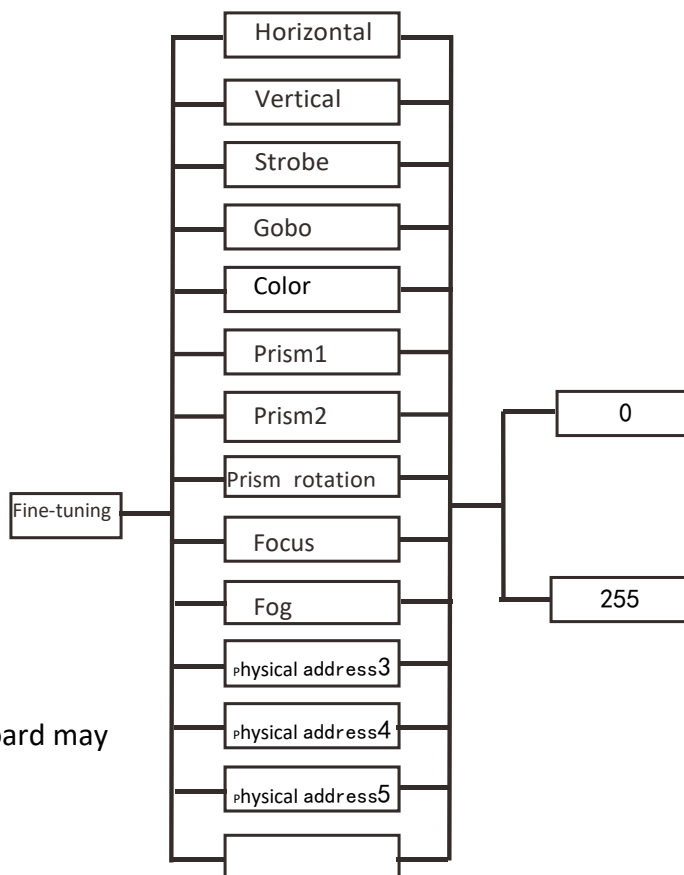
5.2 Error message

Temperature error

The temperature detection board may be damaged.

Fan error

The fan and its control parts may be broken.

Magneto sensitive error

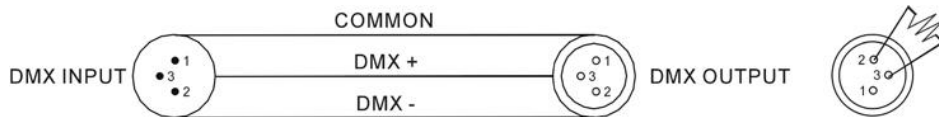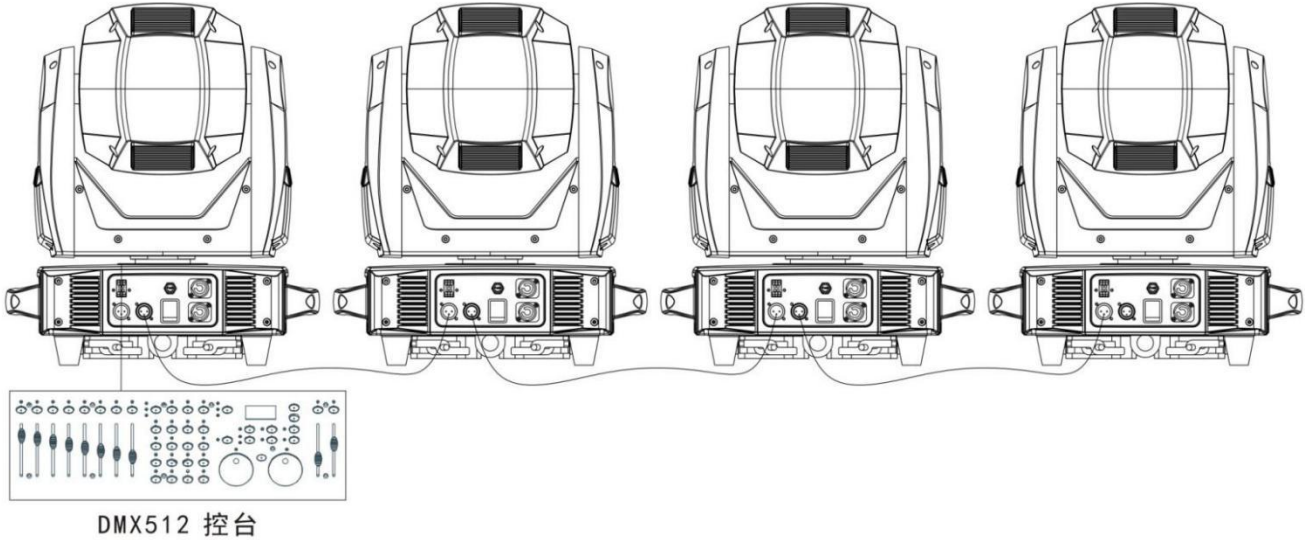For the magnetic sensitive function part may be broken.

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

DMX512 控台

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
16 Channel	1	17	33	49
13 Channel	1	14	27	40

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 :

Full mode 16 （CH）	Standard mode 13 （CH）	Lite mode (15 （CH）	Channel name	Channel value	
1	1	**Horizontal**	000-255	0-540 degree	
2		**Horizontal Fine-tuning**	000-255	16bit Adjustable	
3	2	**Vertical**	000-255	0-270 degree	
4		**Vertical Fine-tuning**	000-255	16bit Adjustable	
5	3	**XY speed**	000-255	From fast to slow	
6	4	**Dimming**	000-255	Light spot from dark to light	
7		**Dimming fine-tuning**	000-255	16bit adjustable	
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	6	**Color wheel**	0-4	White light	
			5-9	Red	
			10-14	Blue	
			15-19	Green	
			20-24	Orange	
			25-29	Fuchsia	
			30-34	Light yellow	
			35-39	Rose red	
			40-44	Light blue purple	
			45-49	Cool white	
			50-54	blue-green	
			55-59	yellow-green	
			60-64	CTO5600K	
			65-69	Fluorescence	
			70-75	White light → dark red (half color value 73)	

			76-82	Red → blue (half color value 79)
			83-88	Blue → green (half color value 86)
			89-95	Green → orange (half color value 92)
			96-101	Orange→purple (half color value 99)
			102-108	Fuchsia → Light Yellow (half color value 105)
			109-114	Light yellow → plum red (half color value 112)
			115-121	Plum red → light blue purple (half color value 118)
			122-127	Light blue purple → cool color (half color value 125)
			128-133	Cool color → blue green (half color value 131)
			134-140	Blue-green → yellow-green (half color value 137)
			141-146	Yellow-green→CTO5600K (half color value 144)
			147-152	CTO5600K→four-color effect (half-color value 150)
			153-159	Fluorescence→white light (half-color value 154)
			160-219	Positive rainbow, from fast to slow
			220-223	Stop
			224-255	Reverse rainbow, from slow to fast
10	7	**Gobo Wheel**	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
			60-64	Gobo14 dithering effect, from slow to fast
			65-68	Gobo13dithering effect, from slow to fast
			69-72	Gobo12dithering effect, from slow to fast
			73-76	Gobo11dithering effect, from slow to fast
			77-80	Gobo10dithering effect, from slow to fast

			81-84	Gobo9dithering effect, from slow to fast
			85-88	Gobo8dithering effect, from slow to fast
			89-92	Gobo7dithering effect, from slow to fast
			93-96	Gobo6dithering effect, from slow to fast
			97-100	Gobo5dithering effect, from slow to fast
			101-104	Gobo4dithering effect, from slow to fast
			105-108	Gobo3dithering effect, from slow to fast
			109-112	Gobo2dithering effect, from slow to fast
			113-115	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
11	8	**Prism 1**	0-15	No Function
			16-255	Eight Prism
12	9	**Prism 2**	0-15	No Function
			16-255	24 honeycomb prism
13	10	**Prism rotation**	0-127	Prism rotation position
			128-189	Forward rotation, from fast to slow
			190-193	Stop
			194-255	Reverse rotation, from slow to fast
14	11	**Fog**	0-7	No Function
			8-255	Fog
15	12	**Fog**	0-255	No function
16	13	**Functional channel**	0-129	Fog
			130-139	No function
			140-149	Turn on the bulb
			150-159	XY Reset
			160-169	Color reset
			170-179	Gobo reset
			180-189	Strobe reset
			190-199	No function
			200-209	Focus/prism reset
			210-229	Reset all
			230-239	No function
			240-255	Turn off the bulb

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 good.

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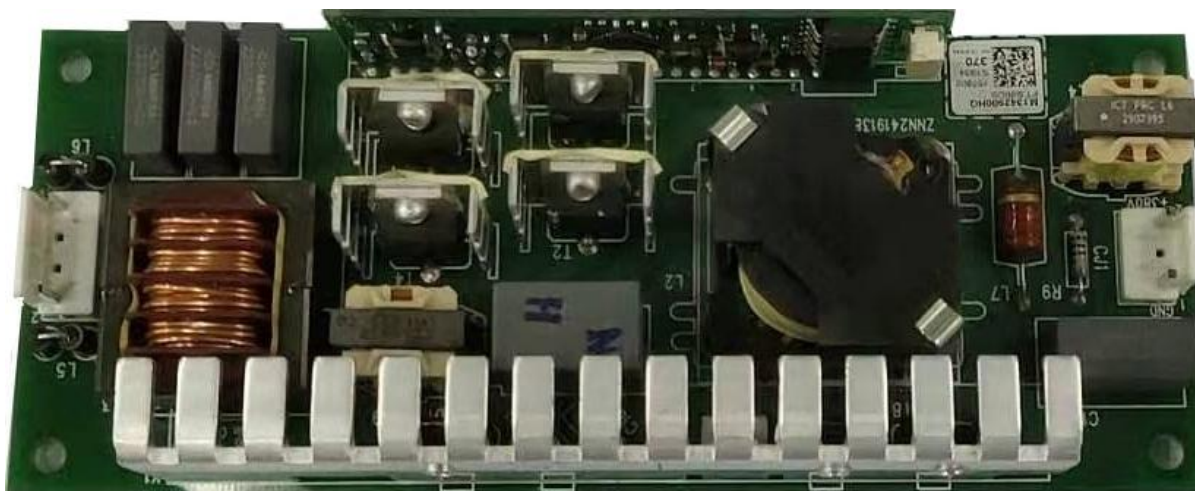
2. The drive circuit of the motor may be damaged.

D. Good and bad bulbs

3. The bulb cannot be light up normally. See if the voltage is too high or too low.

4. 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)