

# 380W BEAM MOVING HEAD

## USER MANUAL



**Please read and keep this manual carefully for further use!**

Thank you for buying our professional Beam moving head.

This user manual includes important information for installation and operation, so please read this user manual carefully before installation and operation, and keep this user manual well for further use.

In order to install, operate, and maintain the lighting safety and correctly. We suggest that the installation and operation should be done by the verified technician and follow the instruction strictly.

### **Spare part includes:**

Name	QTY	Unit
Fixture	1	PC
User manual	1	PC
Power cable	1	PC
DMX signal cable	1	PC

Please check carefully that there is no damage caused by transportation. Should there be any, consult your local dealer.

### **Cautions**

Before delivery, this device has passed strict inspection, Please follow the user manual strictly for operation, if this fixture is damaged by improper operation and mistake, the fixture will be out of warranty, and manufacture or dealer won't be responsible for it. In case of any technology change in this manual, we won't advise in further .

#### **CAUTION!**



**Keep this device away from rain and moisture!**



**Unplug mains lead before opening the housing!**

#### **Warning!**

**Damages caused by the disregard of this user manual are not subject to warranty. The dealer will not accept liability for any resulting defects or problems.**

## Installation

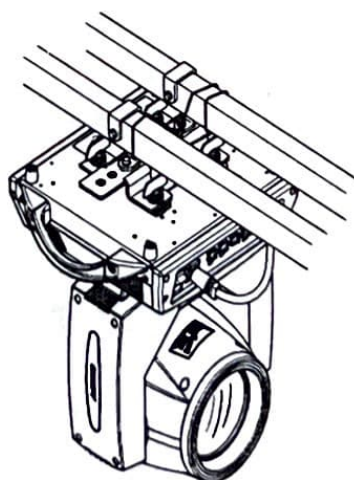
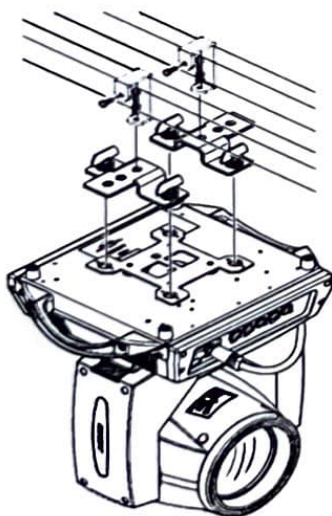
### CAUTION!



Please consider the GB7000.15/EN60598-2-17 and the other respective national norms during The installation. The installation must only be carried out by a qualified person.

- ▶ This fixture is not suitable for direct installation on combustible material surface, please keep the fixture surface at least 0.5m from any combustible material.
- ▶ If you use the quick lock cam in hanging up the fixture, please make sure the quick lock fasteners turned in the quick lock holes correctly.
- ▶ The applicable temperature for the fixture is between  $-25^{\circ}\text{C}$  to  $45^{\circ}\text{C}$ . Do not use the lighting under or above this temperature range.
- ▶ The truss for hanging the fixture should be able to hold 10 times weight of this fixture and no deformation after 1 hour hang.
- ▶ Please don't stand under the fixture when install, uninstall, move or repair the fixture.
- ▶ Please ensure the light is connected correctly and invite professional technician to check and confirm the electrical data before installation.
- ▶ Please invite professional technician to check the fixture and installation each year.

### Rigging:





Insert the quick-lock fasteners of the first holder into the respective holes on the bottom of the device. Tighten the quick-lock fasteners fully clockwise.

Fix the clamp on truss or other fixture bracket.

Pull the safety rope through the holes on the bottom of the base and fasten it on the truss or other fixing point.

Note: This step is quite important to ensure that fixture will not drop down for the clamp damage.

## **Product specification**

Voltage: 100-240V, 50/60HZ;

Power Consumption: 500W;

Lamp: Chinese lamp 380W

Fuse: 10A/250V,  $\phi$  5\*20

DMX Channel: 19CH

Operation mode: master-slave/DMX/Auto

Focus: Yes

Fixed gobo: 12 gobos + open+ 5 glass gobos

Strobe: 25Hz

Color: 14 colors +open

Prism 1: 8-facet

Prism 2: 8+16-facet

Pan: 540°

Tilt: 270°

Frost / Six-color effect: Yes

RDM: Yes

## **Display and operation**

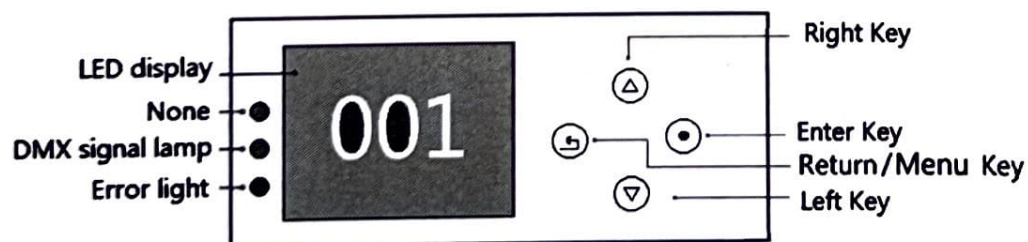


Figure 1 Schematic diagram of key description on the panel

The following takes "Modify DMX address code" as an example to describe the use of keys:

- 1, if the current is not the main interface, press the "left" key (one or more times) to return to the main interface
- 2, in the home screen, press the "up" key or "down" key to select the "Settings" button

3. Press the "OK" key to enter the "Settings" interface
4. in the "Settings" interface, press the "up" key or "down" key to select "DMX address"
5. press the "OK" key to enter the editing state
6. press the "up" key or "down" key to modify the DMX address code
7. press the "OK" key to exit the editing state

## Menu Description



Figure 2 Schematic diagram of main menu

### Settings

Options	Instructions	
Run	DMX	Slave state: Receives DMX signals from the console or host
	Bootstrap	Host status: Self-drive and send DMX signal to slave
	Voice Control	
Scene setting		
DMX address	1-512	Press "OK" to enter the editing state. At this time, the hundreds digit is selected, and press the "up" and "down" keys to change the address code. Press the "OK" key again to select the tens edit. Press "OK" again to select the ones edit. Press again to exit the editing state
Bulb	Off	Off Bubble
	On	Bright Bubble
Motor reset	Off	
	On	Light fixture reset



Channel	Standard 16CH	Standard 16 channel mode
	Extended 24CH	Expand 24 channel mode
Language	English	Set to English interface
	Chinese	Set to the Chinese interface
Screen flip	Off	Front display
	On	Screen inverted display
X Inversion	Off	
	On	X Motor direction rotation 540 degrees
Y reversal	Off	
	On	Y Turn the motor 270 degrees in the direction
XY switching	Off	
	On	Channel for switching XY axes (including fine tuning)
XY encoder	On	Use an encoder (optocoupler) to judge out of step and automatically correct the position
	Off	Correct position without using an encoder (optocoupler)
DMX signal	Hold	Continue running in its original state
	Reset	Turn the motor back and stop running
Turn on bright bubble	Off	
	On	Bright bubble after turning on
Linear color	On	The color wheel changes linearly
	Off	Color wheel nonlinear change, half-color change
Clear scene data		Press the "OK" key to clear scene data
Restore default	On	
	Off	Press "OK" to see the confirmation dialog box, press "OK" again to restore the default Settings

### Scene Setup Instructions

Options		Instructions
Scene selection	01-20	Select Scenario 1- Scenario 20 for programming
Scene time	0-255.	Set the running time of the current scene, up to 255 seconds
Scene Run	On	The default is on, which will be executed during auto run, and if it is set to interrupt, it will skip the current scene and run the next scene
	Off	
Step 1: Color	0-255.	Set console values 0-255
2 Cut	0-255.	

light/strobe		
3 Dimmer	0-255.	
4 Pattern plates	0-255.	
5...	0-255.	
6...	0-255.	

### Manual control

This interface is used to control the current luminaire (does not receive DMX signals), corresponding to the channel. Refer to the channel table for details

Options	Instructions	
1CH.	0 ~ 255	Press "OK" to enter the editing state. At this time, the hundreds digit is selected, and press the "up" and "down" keys to change the channel value. Press the "OK" key again to select the tens edit. Press "OK" again to select the ones edit. Press again to exit the editing state
...	0 ~ 255	
15CH.	0 ~ 255	
...	0 ~ 255	

### Information

Options	Instructions	
Ver		Show software version
DIS		Display board software version
MT		Motor board software version
Time information	Time information Steps 1 Total brightening bubbles 2. Total use	Record the cumulative bright-bubble time Record the lighting time
System error		If the red ERR indicator is bright, it indicates that the lamp is running incorrectly. You can go to the subinterface to view the details. After viewing, you can press the "Clear" button to clear the error record
Blower speed		Displays the current blower speed
Hall Status	0000	0 when magnetic is detected, 1 otherwise
The X-axis encodes the disk step value	0000	The number of steps should increase for forward travel and decrease for reverse travel. The number should be normal every time you reach the same point
The Y-axis	0000	The number of steps should increase for



encodes the disk step value		forward travel and decrease for reverse travel. The number should be normal every time you reach the same point
Permission Duration		9999 No encryption; Other values can be used with encryption

#### A. Error message description

Common Error Messages	Instructions
MT board connection failed	Motor board not responding. There is a problem with the serial communication line connecting the display board to the motor board, or there is a problem with the motor board.
X-axis reset failed	There is a problem with the X-axis photoelectric switch, or the X-axis motor or motor board
Y-axis reset failed	Y-axis photoelectric switch, or Y-axis motor or motor board problem
X-axis Hall error	X-axis Hall, or a problem with the motor board
Y-axis Hall error	Y-axis Hall, or a problem with the motor board
Color disk reset failed	Color disk Hall, or there is a problem with the color disk motor
The pattern plate failed to reset	Pattern plate Hall, or pattern plate motor has a problem
The focus reset failed	Focusing Hall, or a problem with the focusing motor
Bulb control failure	Failure to light or extinguish bubbles, lamplighter or bulb problem

#### Factory

Calibrate	Fan adjustment (test)	Fan regulation
		Blower speed
		Wind speed low off Bubble on/off
	Data download	After changing the display board, download the calibration data of the original display board from the motor board
	X	After entering the sub-interface, the reset position of the motor such as X axis and Y axis can be adjusted to make up for the error on the hardware installation. The adjustment range is -128~+127, and +0 indicates no adjustment.
	Y	
	Colors	
	Gobo	
	Focus	
	Dimming	
	Prism 1 Zero	



	Prism 1 Stroke	
	Prism 2 Zero	
	Prism 2 Stroke	
	Frost white light	
	Frost stroke	
	Colorful mirror stroke	
	Zeroing	close
		On, the data is restored to default values
	X Hall	Off, X Hall report wrong off
		On, X Hall reports the wrong off
	Y Hall	Off, Y Hall reports wrong off
		On, Y Hall reports an error
	Half power	Off, no half power function
		On, with half power function

## 19 DMX channel

16CH	Function	Value	Details
1	Color wheel	000-004	White
		005 -009	White + Color 1
		010 - 014	Color 1
		015 - 019	Color 1+color 2
		020 - 024	Color 2
		025 - 029	Color 2+color 3
		030 - 034	Color 3
		035 - 039	Color 3+color 4
		040 - 044	Color 4
		045 - 049	Color 4+color 5
		050 - 054	Color 5
		055 - 059	Color 5+color 6
		060 - 064	Color 6
		065 - 069	Color 6+color 7
		070 - 074	Color 7
		075 - 079	Color 7+color 8
		080 - 084	Color 8
		085 - 089	Color 8+color 9
		090 - 094	Color 9
		095 - 099	Color 9+color 10
		100 -104	Color 10
		105 -109	Color 10+color 11
		110 -114	Color 11

		115 -119 120 -124 125-129 130 -134 140- 144 145- 149 150- 200 201- 255	Color 11+color 12 Color 12 Color 12+color 13 Color 13 Color 14 Color 14+White Reverse flow (from fast to slow) Forward flow (from slow to fast)
2	Strobe	000-003 004-103 104-107 108-207 208-212 213-251 252-255	Shutter closed Strobe from slow to fast Open the shutter Pulse strobe from slow to fast Open Random strobe from slow to fast Open → (controlled by the dimming channel)
3	Dimmer & RGB	000-255	dimmer from dark to bright
4	Gobo wheel	000 - 004 005 - 009 010 - 014 015 - 019 020 - 024 025 - 029 030 - 034 035 - 039 040 - 044 045 - 049 050 - 054 055 - 059 060 - 064 065 - 069 070 - 074 075 - 079 080 - 084 085 - 089 090 - 129 130 - 134 135 - 169 170 - 174 175 - 179 180 - 184 185 - 189 190 - 194	White gobo 1 gobo 2 gobo 3 gobo 4 gobo 5 gobo 6 gobo 7 gobo 8 gobo 9 gobo 10 gobo 11 gobo 12 gobo 13 gobo 14 gobo 15 gobo 16 gobo 17 Forward flow (from slow to fast) Stop Reverse flow (from fast to slow) gobo 1 shake slow to fast gobo 2 shake slow to fast gobo 3 shake slow to fast gobo 4 shake slow to fast gobo 5 shake slow to fast



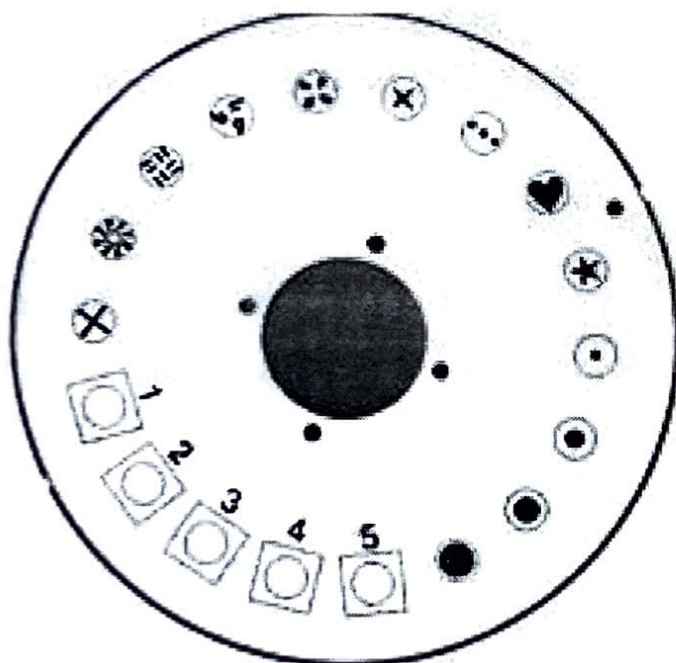
		195 - 199 200 - 204 205 - 209 210 - 214 215 - 219 220 - 224 225 - 229 230 - 234 235 - 239 240 - 244 245 - 249 250 - 255	gobo 6 shake slow to fast gobo 7 shake slow to fast gobo 8 shake slow to fast gobo 9 shake slow to fast gobo 10 shake slow to fast gobo 11 shake slow to fast gobo 12 shake slow to fast gobo 13 shake slow to fast gobo 14 shake slow to fast gobo 15 shake slow to fast gobo 16 shake slow to fast gobo 17 shake slow to fast
5	Prism1	000-31 32-255	no prism prism 1
6	Prism1 rotation	000-127 128-190 191-192 193-255	Prism angle adjustment Reverse rotation (fast to slow) Stop Forward rotation (slow to fast)
7	Prism 2	000-31 32-255	no prism prism 2
8	Prism2 rotation	000-127 128-190 191-192 193-255	prism angle adjustment Reverse rotation (fast to slow) Stop Forward rotation (slow to fast)
9	Focus	000-255	Pattern clarity from near to far
10	pan	000-255	0-540 degree
11	pan fine	000-255	0-1.2 degree
12	tilt	000-255	0-270 degree
13	tilt fine	000-255	0-1.2 degree
14	XY speed	000-255	speed fast to slow
15	Frost & 6-color effect	000-127 128-191 192-255	no function 6-color effect Frost
16	Lamp control	000-025 100-105 200-205 250-255	no function Lamp off Lamp on all motors reset
17	RGB strobe	000-255	Strobe from slow to fast

18	RGB effect	000-001	Red 1
		002-005	Green 2
		006-010	Blue 3
		011-015	Yellow 4
		016-020	Rose 5
		021-025	Light blue 6
		026-029	White 7
		030-048	Color jump 8
		049-054	Effect 9
		055-058	Effect 10
		059-063	Effect 11
		064-068	Effect 12
		069-073	Effect 13
		074-078	Effect 14
		079-087	Effect 15
		088-092	Effect 16
		093-097	Effect 17
		098-102	Effect 18
		103-107	Effect 19
		108-112	Effect 20
		113-116	Effect 21
		117-122	Effect 22
		123-126	Effect 23
		127-131	Effect 24
		132-136	Effect 25
		137-140	Effect 26
		141-144	Effect 27
		145-149	Effect 28
		150-155	Effect 29
		156-160	Effect 30
		161-165	Effect 31
		166-170	Effect 32
		161-165	Effect 33
		166-174	Effect 34
		175-179	Effect 35
		180-184	Effect 40
		185-189	Effect 41
		190-194	Effect 42
		195-199	Effect 43
		200-203	Effect 44
		204-208	Effect 45
		209-213	Effect 46
		214-218	Effect 47
		219-223	Effect 48

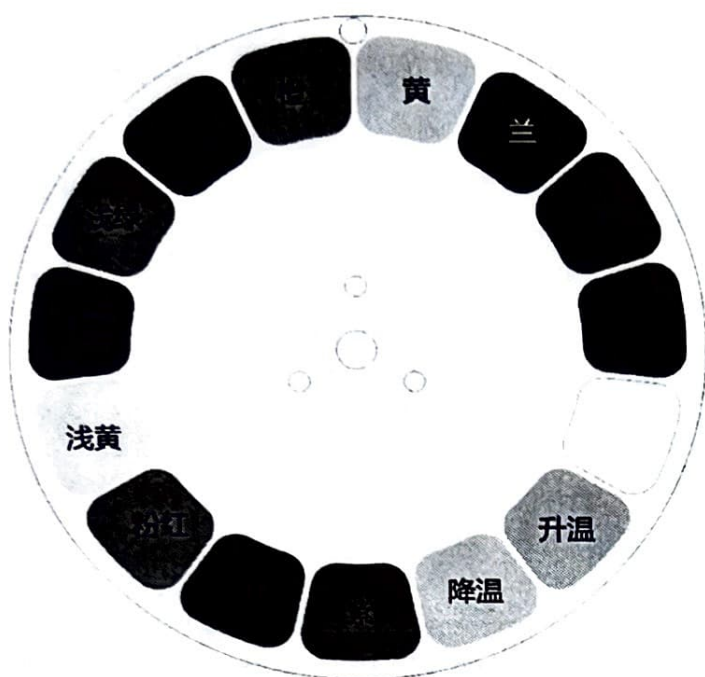


		224-228 229-232 233-237 238-242 243-247 248-252 253-255	Effect 49 Effect 50 Effect 51 Effect 52 Effect 53 Effect 54 Effect 55
19	RGBeffect Speed	0-255	Speed from slow to fast

### Gobo Wheel



Color Wheel:



**Frost & 6-color:**



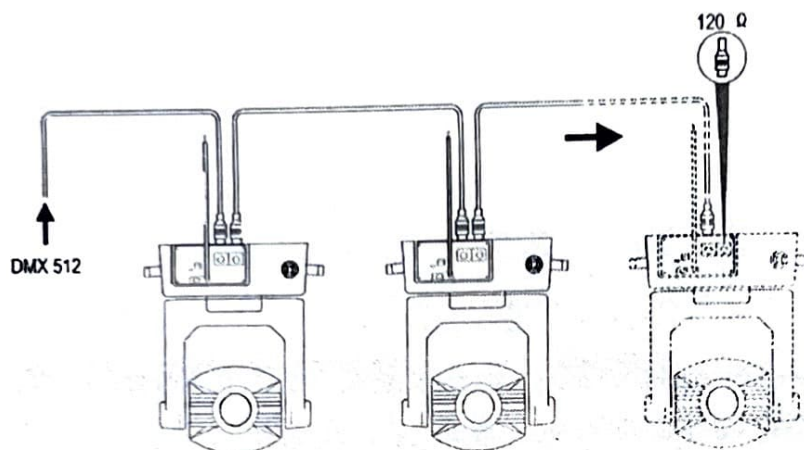
### **DMX-512 connection**

Connect the provided XLR cable to the male 3-pin XLR output of your



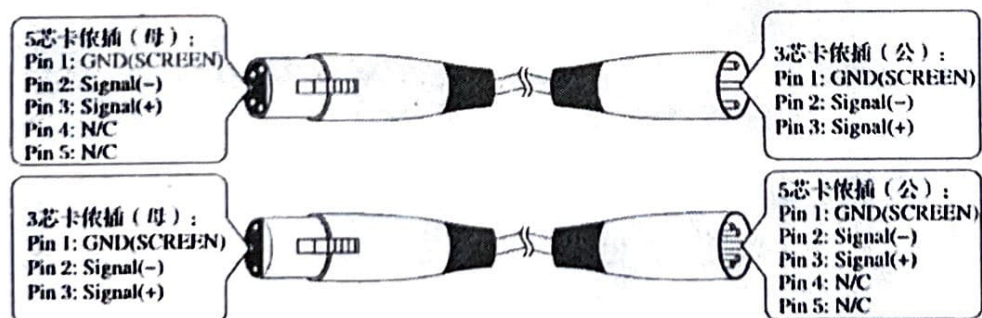
controller and the other side to the female 3-pin XLR input of the light. then connect the DMX signal to the first fixture to the 2<sup>nd</sup> fixture, after all fixtures are connected,

The signal cable should be two - core with screened cable with XLR input and output connectors. Please refer to the diagram below



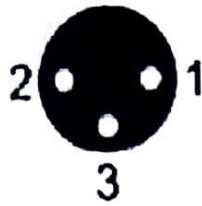
## DMX terminator connection

If there are many lines or lights, it is recommended to use a DMX terminator to prevent DMX signal corruption, the DMX terminator is an simple XLR plug with a 120  $\Omega$  resistor connected between pins 2 and 3, which is then plugged into the output XLR socket of the last fixture in the chain.



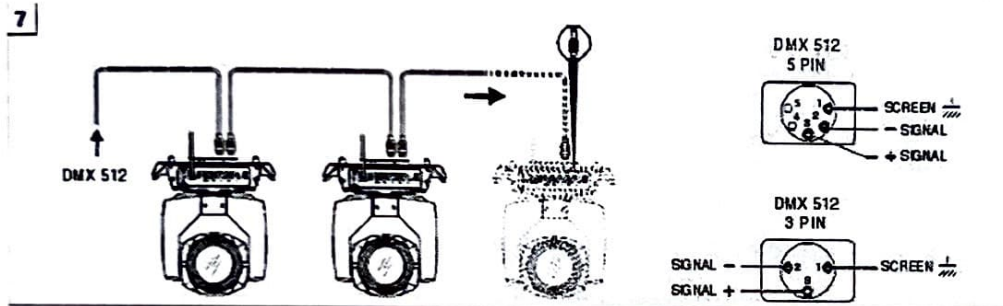
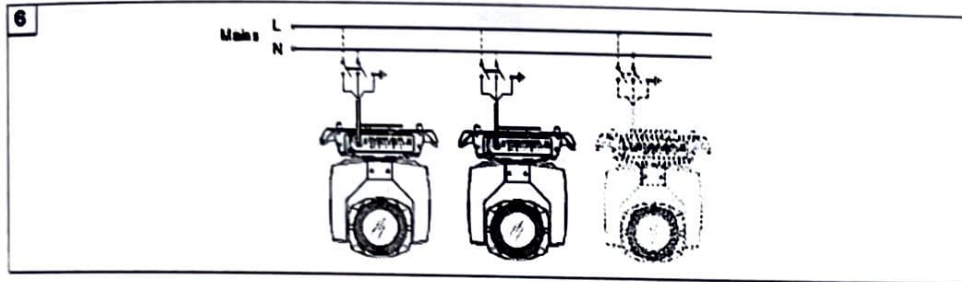
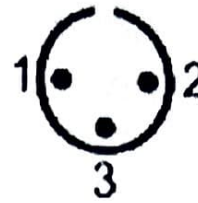
3-Pins connection

## OUTPUT



Pin 1: Screen  
Pin 2: Signal -  
Pin 3: Signal +

## INPUT



## Cleaning and maintenance

Cleaning 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.



### CAUTION

Cut off power before cleaning and maintenance!

### Attention

Do not see directly light source when open the light, and make sure power off before do any installation or maintenance.



### CAUTION!

Never look directly into the light source,  
as sensitive persons may suffer an epileptic shock.





### CAUTION

Wires connection must be done professional person!

### Cautions

Before delivery, this device has passed strict inspection, Please follow the user manual strictly for operation, if this fixture is damaged by improper operation and mistake, the fixture will be out of warranty, and manufacture or dealer won't be responsible for it. In case of any technology change in this manual, we won't advise in further .

### Common issues instruction

Issues	Solve instruction
No power	Check power's voltage
When power in, output light but the device cannot accept control signal	Check address setting and the control DMX cable connection well or not
The effect have light shadow	Check electronic focus DMX channel value, if it's suitable distance
Light beam dim	The lamp maybe arrived end of using life, should change new lamp, and also check light source cleaning or not

**Note:** the maintenance should be done by the verified technician.