
380W Beam Light

User 's Guide



Please read the instructions carefully

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Chapter 2 Precautions and Installation Precautions and Installation

1.1 Statement

Thank you for choosing our company's products! When this product leaves the factory, the performance is intact and the packaging is complete. For your safe and effective use of this product, before you use this product, please read this instruction manual carefully and completely. This manual contains important information for installation and use. Please install and operate in accordance with the requirements of the manual. At the same time, please keep this manual properly for use at any time. Our company does not assume all responsibility for damage to lamps or other performance due to personal failure to follow the instructions during installation, use, and maintenance.

This manual is subject to technical changes without notice.

1.2 Maintenance

- Please disconnect the power before performing maintenance.
- The lamp should be kept dry and avoid working in a humid environment.
- Intermittent use will effectively extend the life of the lamp.
- In order to obtain good ventilation and lighting effects, it is necessary to clean the fan, fan net and lens frequently.
- Do not wipe the lamp housing with organic solvents such as alcohol to avoid damage.

1.3 Product precautions

- This lamp is for professional use only.
- Before operation, make sure that the power supply voltage matches the power supply voltage required by the equipment.
- Do not place this product in a place that is easy to loosen or shake.
- During use, if the lamp is abnormal, stop using the lamp in time.
- In order to ensure the service life of the product, this product must not be placed in a humid or leaking place, and it must not be used in an environment where the temperature exceeds 60 degrees.
- When the bulb is in use, the power supply voltage should not change more than $\pm 10\%$. Too high voltage will shorten the life of the bulb, and too low voltage will affect the light color of the bulb.
- After the power is off, it takes 20 minutes to use the lamp to fully cool down before it can be powered on again.
- The rotating parts of the lamp and the pasted accessories must be checked regularly, if there is any looseness, the shaking should be reinforced in time to prevent accidents.
- To ensure the normal use of this product, please read this manual carefully.

1.4 Product description

- Light source power: 380W;
- Voltage: AC 200V~240V/50~60Hz;
- Color wheel: each color wheel is composed of 13 color chips + white light;
- Pattern plate: 14 pattern effects;
- 540° pan, 270° tilt.

- Overheating protection;
- Control mode: DMX512/master-slave /auto;
- IP20 protection level

1.5 Signal line connection

The lamp is equipped with standard DMX input and output 3-pin or 5-pin XLR sockets. Please use shielded twisted-pair signal wire specially designed for DMX 512; the signal wire is generally connected at a distance of 150 meters. For long-distance signal transmission, a DMX512 signal amplifier must be added.

A shielded twisted pair cable using a signal from the controller DMX is connected to the first output device DMX input port, and from the first device DMX connect the output port to the second station apparatus DMX input, and so on, Until all lamps are connected, install a terminal plug on the output 3-pin jack of the last connected lamp of each link. (In the strip pin XLR plug 2, 3 between a welding pin .4/1W, the 120-ohm resistor).

Important note: The wires cannot touch each other or the metal shell.

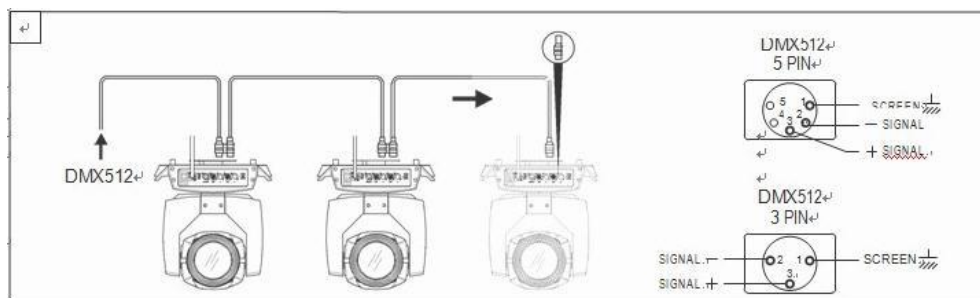


Figure 1 Schematic diagram of DMX signal line connection

➤ Calculation method of lamp start address code:

The starting address code of the current fixture is equal to (the starting address code of the previous fixture) + (the number of channels of the fixture)

- 1: The starting address code value of the first lamp is A001.
- 2: The number of basic channels of the controller should be greater than or equal to the total number of channels used by the lamp.
- 3: Note: When using any controller, each lamp must have its own start address code. If the start address code of the first lamp is set to A001, the number of channels of the lamp is 16CH; then The start address code of the two lamps is set to A017; the start address code of the third lamp is set to A033; and so on, (this setting method also needs to be determined according to different consoles)

1.6 Lamp installation

The lamps can be placed horizontally, hung diagonally and hung upside down. Be sure to pay attention to the installation method when hanging diagonally and upside down. like Picture 2 As shown, before positioning the luminaire, ensure the stability of the installation site. When installing in reverse hanging, you must ensure that the luminaire does not fall down on the support frame, and you need to use a safety rope to pass through the support frame and the luminaire handle for assistance hanging, in order to ensure safety .prevent lamps falling and sliding.

When the lamps are installed and debugged, pedestrians are prohibited from passing underneath. Regularly check whether the safety ropes are worn and the hook screws are loose.

Our company will not bear any responsibility for all the consequences caused by the falling of the lamp due to the unstable installation of the hanging.

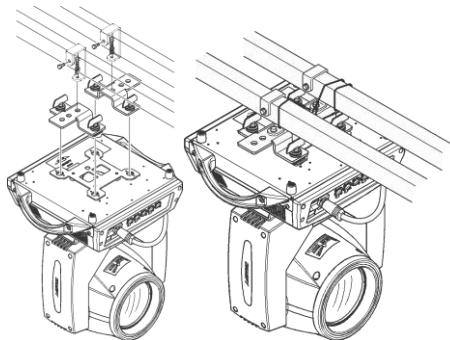
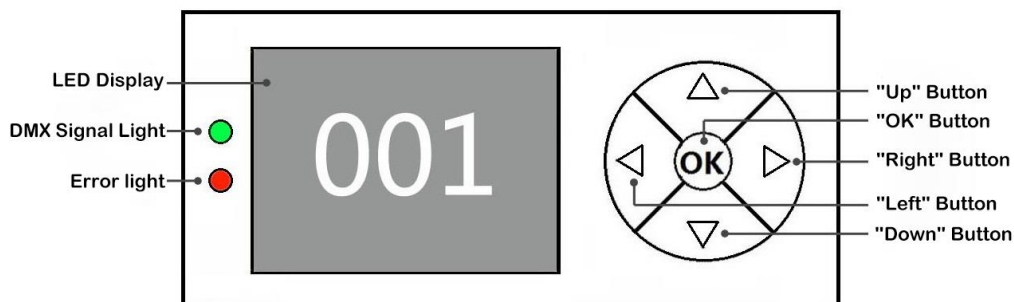


Figure 2 Schematic diagram of upside-down lamps

2. Control Panel

2.1 Button description



"Left" and "Right" keys have the same function: return to the previous interface

"Up" and "Down" keys: select, edit

"OK" key (ie "OK" key): execute function, start editing, exit editing

Figure 3 Schematic diagram of panel keys

Let's take "Modify DMX Address Code" as an example to describe the use of buttons:

1. If the current interface is not the main interface, press the "left" key (one or more times) to return to the main interface
2. In the main interface, press "Up" or "Down" to select the "Settings" button
3. Press the "OK" key to enter the "Settings" interface
4. In the "Settings" interface, press the "Up" or "Down" keys to select "DMX Address"

5. Press the "OK" key to enter the editing state
6. Press "up" or "down" to modify the DMX address code
7. Press "OK" to exit the editing state

2.2 Menu description



Figure 4 Schematic diagram of the main menu

2.2.1 Settings

Options	instruction	
Operating mode	DMX	Slave state: receiving DMX signal from the console or host
	Self-propelled	Master status: self-propelled and send DMX signal to slave
	Voice control	
DMX address	1~512	Press the "OK" key to enter the editing state. At this time, the hundreds digit is selected, press the "up" and "down" keys to change the address code. Press the "OK" button again to select the ten digits for editing. Press the "OK" key again to select the ones digit to edit. Press again to exit the editing state
Light bulb	close	Guan Pao
	open	Bright bubble
Motor reset	close	
	open	Fixture reset
Channel mode	Standard 18CH	Standard 18-channel mode
language	Chinese	Set to Chinese interface
	English	Set to English interface

Screen flip	close	Front display
	open	Screen reversed display
X reverse	close	
	open	
Y reverse	close	
	open	
XY exchange	close	
	open	Exchange the channels of the XY axis (including fine-tuning)
XY encoder	open	Use encoder (optocoupler) to judge out-of-step and automatically correct position
	close	Correct position without using encoder (optocoupler)
DMX signal	Keep	Continue to run in the original state
	Cleared	Motor returns to position and stops running
Low wind speed	open	If the blower speed is too low, the bubble will be automatically extinguished
	close	If the blower speed is too low, the bubble will not be automatically extinguished
Power on the bubble	close	Reset directly after power-on, without light bulb (need to use the menu or console to manually light the bulb)
	open	The bulb will light up automatically after power on, and it will be reset only after the bulb lights up successfully
The color wheel changes linearly	open	The color wheel changes linearly
	close	Non-linear change of color wheel, half color change
Restore default settings		Press the "OK" button to see the confirmation dialog box, press the "OK" button again to restore the default settings

2.2.2 Information

Options	instruction	
DIS		Display board software version
MT		Motor board software version
system error		If the red ERR indicator is on, it means that the lamp is running wrong, and you can enter the sub-interface to view the details. After viewing, you can press the "Clear" button to clear the error record
Blower speed		Display current blower speed
Hall state	0000000	It is 0 when magnetism is detected, otherwise it is 1
X axis encoder disc step value	0000	When walking in the forward direction, the step value should increase, and when walking in the reverse direction, the step value should decrease. Every time you go

		to the same point, the value is the same as normal
Y axis encoder disc step value	0000	When walking in the forward direction, the step value should increase, and when walking in the reverse direction, the step value should decrease. Every time you go to the same point, the value is the same as normal
Permission duration	9999	9999 means no encryption and can be used for a long time; Other values indicate the remaining use time, with encryption;

Common error messages	instruction
MT board connection failed	There is no response from the motor board. There is a problem with the serial communication line connecting the display board and the motor board, or there is a problem with the motor board.
X axis reset failed	X-axis photoelectric switch, or X-axis motor or motor board has a problem
Y axis reset failed	Y-axis photoelectric switch, or Y-axis motor or motor board has a problem
X axis Hall error	X-axis Hall, or the motor board has a problem
Y axis Hall error	Y-axis Hall, or the motor board has a problem
Color wheel reset failed	The color wheel Hall, or the color wheel motor has a problem
Gobo reset failed	Gobo Hall, or gobo motor has a problem
Focus reset failed	There is a problem with the focus hall or the focus motor
Lamp control failed	Failure to turn on or off the bulb, there is a problem with the lighter or bulb

2.2.3 Factory

calibration	X axis	After entering the sub-interface, you can adjust the reset position of the X-axis, Y-axis and other motors to compensate for the error in the hardware installation. The adjustment range is $-128^{\sim}+127$, and +0 means no adjustment.
	Y axis	
	color	
	pattern	
	focusing	
	Dimming	
	Prism 1 zero	
Prism 1 stroke		

	Prism 2 zero	
	Prism 2 stroke	
	Atomization calibration	
	Colorful mirror	

2. Channel function

3.1 Channel table

aisle	Channel mode	
	16	20
1	Color wheel	Color wheel
2	Cut light /strobe	Cut light /strobe
3	Dimming	Dimming
4	Pattern plate	Pattern plate
5	Prism 1	Prism 1
6	Prism rotation 1	Prism rotation 1
7	Prism 2	Prism 2
8	Prism rotation 2	Prism rotation 2
9	focusing	focusing
10	X	X
11	X fine-tuning	X fine-tuning
12	Y	Y
13	Y fine-tuning	Y fine-tuning
14	XY speed	XY speed
15	Atomization & Colorful Mirror	Atomization & Colorful Mirror
16	Bulb control & reset	Bulb control & reset
17		none
18		Color wheel speed
19		Dimming - Prism - Atomization Speed
20		Gobo speed

Channel parameters (full version):

aisle	Features	Channel value	Effect
1	Color wheel	000-004	White light
		005 -009	White light + 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 - 049 050 - 054 055 - 059 060 - 064 065 - 069 070 - 074 075 - 079 080 - 084 085 - 089 090 - 094 095 - 099 100 - 104 105 - 109 110 - 114 115 - 119 120 - 124 125 - 129 130 - 134 135 - 139 140 - 200 201 - 255	Color 4+ color 5 Color 5 Color 5+ color 6 Color 6 Color 6+ color 7 Color 7 Color 7+ color 8 Color 8 Color 8+ color 9 Color 9 Color 9 + color 10 Color 10 Color 10+ color 11 Color 11 Color 11+ color 12 Color 12 Color 12+ color 13 Color 13 Color 13+ white light Positive flow (from fast to slow) Reverse flow (from slow to fast)
2	Strobe	000-003 004-103 104-107 108-207 208-212 213-251 252-255	Shutter closed Stroboscopic from slow to fast Open the shutter → (controlled by the dimming channel) Pulse strobe from slow to fast Open the shutter → (controlled by the dimming channel) Random strobe from slow to fast Open the shutter → (controlled by the dimming channel)
3	Dimming	000-255	Dark to bright
4	Pattern plate	000 - 004 005 - 009 010 - 014 015 - 019 020 - 024 025 - 029 030 - 034 035 - 039 040 - 044	Solid picture 1 Solid figure 2 Solid figure 3 Solid figure 4 Solid figure 5 Solid figure 6 Solid figure 7 Solid figure 8 Solid figure 9

		045 - 049 050 - 054 055 - 059 060 - 064 065 - 069 070 - 074 075 - 079 080 - 084 085 - 089 090 - 094 095 - 099 100 - 104 105 - 109 110 - 114 115 - 119 120 - 124 125 - 129 130 - 134 135 - 139 140 - 200 201 - 255	Solid figure 10 Solid figure 11 Solid figure 12 Solid figure 13 Solid figure 14 Fixed image 1 jitter (from slow to fast) Fixed image 2 jitter (from slow to fast) Fixed image 3 jitter (from slow to fast) Fixed image 4 jitter (from slow to fast) Fixed Figure 5 Jitter (from slow to fast) Fixed image 6 jitter (from slow to fast) Fixed image 7 jitter (from slow to fast) Fixed image 8 jitter (from slow to fast) Fixed image 9 jitter (from slow to fast) Fixed figure 10 jitter (from slow to fast) Figure 11 jitter (from slow to fast) Fixed image 12 jitter (from slow to fast) Fixed image 13 jitter (from slow to fast) Fixed figure 14 jitter (from slow to fast) Reverse flow (from fast to slow) Positive flow (from slow to fast)
5	Prism 1	000-127 128-255	Prism 1 pops up Prism 1 cut in
6	Prism 1 rotation	000-127 128-190 191-192 193-255	Prism angle adjustment Reverse rotation (from fast to slow) stop Forward rotation (from slow to fast)
7	Prism 2	000-127 128-255	Prism 2 pops up Prism 2 cut in

8	Prism 2 rotation	000-127 128-190 191-192 193-255	Prism angle adjustment Reverse rotation (from fast to slow) stop Forward rotation (from slow to fast)	
9	focusing	000-255	Pattern definition from far to near	
10	X axis	000-255	Horizontal 540 degree scan	
11	X-axis fine adjustment	000-255	Level 1.2 degree fine adjustment	
12	Y axis	000-255	Vertical 270 degree scan	
13	Y-axis fine adjustment	000-255	Vertical 1.2 degree fine adjustment	
14	XY speed	000-255	Speed from fast to slow	
15	Atomization & Colorful Mirror	000-127 128-191 192-255	none Atomization cut Colorful slices cut in	
16	Bulb control	000-099 100-105 200-205 250-255	Invalid area Turn off the bulb Light up the bulb All motors reset	
Expansion channel	17	Reserve	000-255	Speed from fast to slow
	18	Color wheel speed		
	19	Dimming - Prism - Atomization Speed		
	20	Gobo speed		

2. Common faults

For some common faults, corresponding solutions are proposed. Any problems that cannot be solved should be handled by professionals. Before servicing the lamp, please disconnect the power supply.

1. Light bulb does not light up

- Check whether the voltage matching the lamp is installed;
- Check whether the connection of the power supply of the lamp or the control switch is in bad contact;

- Check whether the power supply is insufficient;

- Check whether the DMX512 controller has sent instructions.

2. After the lamp is reset normally, it does not accept the control of the console

- Check whether the numerical start address value and function options of the lamp are correct;

- Check whether the connection of the communication control line is correct, the

communication line is too long or has been interrupted;

- Check whether the control equipment is invalid, and check whether the serially connected signal amplifier is invalid;
- Check whether the communication line is too long or other equipment interferes with each other;
- Optimize the wiring, shorten the length of the control signal line, and separate the high-voltage and low-voltage lines;
- Add signal amplifier;
- The signal wire adopts high-quality shielded twisted pair wire;
- Connect a signal terminal resistor (120 ohm) at the end of the lamp .

3. The lamp cannot be started

- Check whether the power supply parameters are consistent with the lamps;
- Check that the lamps are in poor contact due to extrusion, deformation, internal parts vibration, moisture, etc. during long-distance transportation.

Or fall off.

- Please check whether the internal wire product connector of the lamp is off or loose.
- Check whether the electronic components of the lamp (such as electronic transformers, PCB boards, motor control boards, etc.) are loose, short-circuited, or burned out.

4. When working, the movement of the X- axis or Y- axis of the lamp is abnormal

- Check one by one according to the previous step;
- Check whether the transmission belt corresponding to the X and Y axis directions in the lamp is off or broken;
- Check whether the data feedback receiver (optocoupler) corresponding to the X and Y directions in the lamp is damaged;
- Reboot and reset once.