Beam light shaking head light

Use to tell the book

Read the instructions carefully before use

Catalogue

1. Precautions and installation 1
   1.1 Declaration 1
   1.2 Maintenance 1
   1.3 Product precautions 1
   1.4 Product Introduction 1
   1.5 Connecting Signal Cables 2
   1.6 Lighting Installation 2
2. Control panel 4
   2.1 Key Instructions 4
   2.2 Main Menu 5
      2.2.1 Settings 5
      2.2.2 Manual 5
      2.2.3 Information 6
      2.2.4 Factory 7
3. Channel function 8
   3.1 Channel Table 8
4. Common Faults 11

1. Precautions and installation Precautions and installation

1.1 DISCLAImer

Thank you for choosing our products! 8, This product is in good condition and the package is complete when it leaves the factory. For your safe and effective use of this product, before you use this product, please read this manual carefully and completely. This manual contains important information for installation and use. Please install and operate according to 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 individuals not operating in accordance with the instructions during installation, use and maintenance.

This manual is subject to technical changes without prior notice.

1.2 Maintenance

- Disconnect the power supply before performing maintenance.
- This lamp should be kept dry and avoid working in wet environment.
- Intermittent use will effectively extend the life of the luminaire.
- In order to obtain good ventilation and lighting effects, pay attention to cleaning the fan and fan net as well as the lens often.
- Do not rub the luminaires housing with organic solvents such as alcohol to avoid damage.

1.3 Product precautions

- This light fixture is for professional use only.
- Ensure that the power supply voltage matches the required power supply voltage of the equipment before operation.
- Do not place this product in a place that is easy to loose 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 should not be placed in a humid or leaking place, and should not work in an environment where the temperature exceeds 60 degrees.
- When the lamp is used, the power supply voltage change should not exceed ±10%, the voltage is too high, will shorten the life of the lamp, the voltage is too low, it will affect the light color of the lamp.
- After the power off, it takes 20 minutes to use the lamp to cool down fully before it can be used again.
- The rotating parts of the lamp and the attaching accessories must be checked regularly, and the loosening and shaking should be reinforced in time to prevent accidents.
- In order to ensure the normal use of this product, please read this instruction carefully.

1.4 Product Description

- Light source power: 250W;
- Voltage: AC 200V~240V/50~60Hz;
- Color disk: each color disk is composed of a color plate + white light;
- Pattern plate: a pattern effect;

- 540° pan, 270° tilt.
- Overheat protection;
- Control mode: DMX512/ master-slave/automatic;
- IP20 protection level

1.5 Signal cable connection

Light fixtures feature standard DMX input and output 3-core or 5-core XLR sockets. Use a twisted-pair signal cable shielded specifically for DMX 512; The signal line is generally connected at a distance of 150 meters, and the DMX512 signal amplifier must be added for long distance signal transmission.

Use a shielded twisted-pair signal line from the DMX outlet of the controller to the DMX input of the first device, and from the DMX outlet of the first device to the DMX input of the second device, and so on, until all the lamps are connected. Then install a terminal plug on the last 3-pin connector of the connecting luminaire output on each line. (Weld a 4/1W, 120Ω resistor between the 2 and 3 pins of the 3-pin pin cannon plug).

Important: The wires should not touch each other or the metal housing.

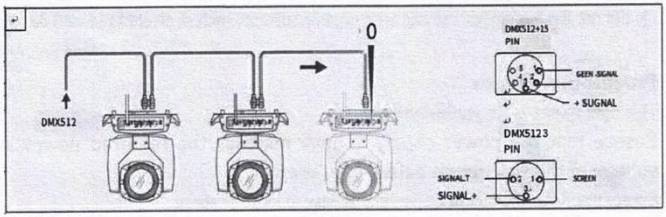


Figure 1 Schematic diagram of DMX signal wire connection

➢ The calculation method of the starting address code of the lamp:

The initial address code of the current luminaire is equal to (the initial address code of the previous luminaire)+(the number of channels of the luminaire)

1: The initial address code value of the first luminaire A001.

2: The basic channel number of the controller should be greater than or equal to the total number of channels used by the luminaire.

3: Note: when using any controller, each luminaire should have its own starting address code, if the first luminaire's starting address code is set A001, the number of luminaire channels is 16CH; Then the starting address code of the second lamp is set to A017; The starting address code of the third lamp is set to A033; And so on, (this setting also needs to be determined according to different consoles)

1.6 Luminaire installation

Luminaires 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.

As shown in Figure 2, before positioning the luminaire, it is necessary to ensure the stability of

the installation site. During the reverse hanging installation, it is necessary to ensure that the luminaire does not fall down on the support frame. It is necessary to use the safety rope to pass through the support frame and the luminaire handle for auxiliary hanging to ensure safety. Prevent the luminaire from falling and sliding.

During the installation and commissioning of the lamp, pedestrians are prohibited from passing under the lamp, and the safety rope is regularly checked for wear and whether the hook screws are loose.

If the hanging installation is not stable, resulting in the fall of the lamp and all the consequences, our company does not assume any responsibility.

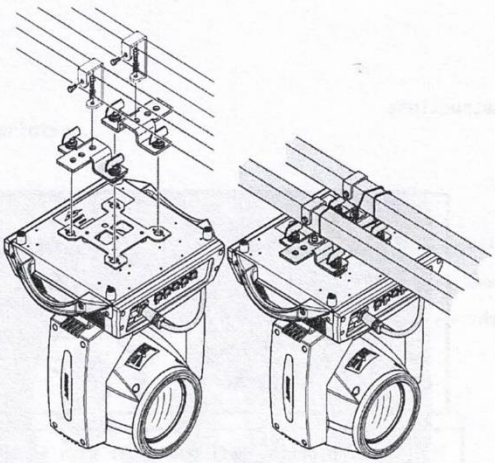


Figure 2 Schematic diagram of the lamp hanging upside down

2. Control panel

2.1 Key Instructions

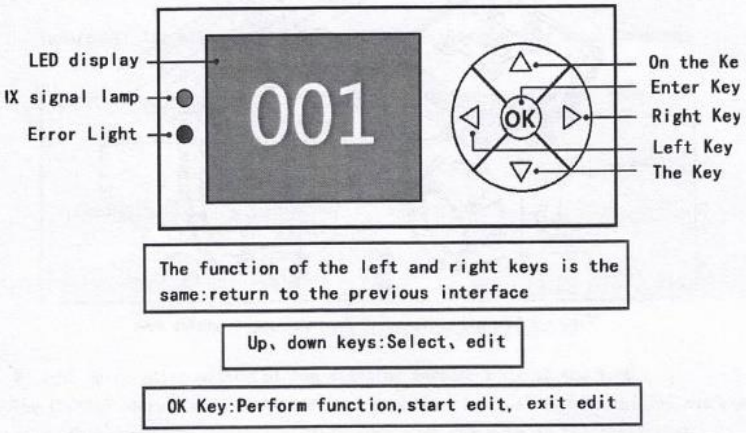


Figure 3 Schematic diagram of key description on the panel

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

2.2 Menu Description



Figure 4 Schematic diagram of main menu

2.2.1 Settings

Options	Instructions	
Running mode	DMX	Slave state: Receives DMX signals from the console or host
	Bootstrap	Host status: Self-drive and send DMX signal to slave
	Voice Control	
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 mode	Standard 16CH Extended 20CH	Standard 16-channel mode Extend the 20 channel mode
Language	Chinese	Set to the Chinese interface
	English	Set to English interface
Screen flip	Off.	Front display
	On	Screen inverted display
X Inversion	Off.	
	On	
Y Reversal	Off.	
	On	
XY swap	Off.	
	On	Channel to swap XY axes (incl. trims)
XY encoder	On	Use the encoder (optocoupler) to determine the 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.	Reset directly after powering on, no light bulb (need to manually light bubbles with menu or console)
	On	Automatically light the bubble after power on, and wait for the lamp to successfully light up before reset
Linear color	On	The color wheel changes linearly
	Off.	Color wheel nonlinear change, half-color change
Restore default		Press "OK" to see the confirmation dialog box, press "OK" again to restore the default Settings

2.2.2 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	

2.2.3 Information

Options	Instructions	
Ver		Show software version
DIS		Display board software version
MT		Motor board software version
Manual	Manual interface	Corresponding channel manual control
Time information	Time information Steps 1 Total brightening bubbles 2. Total use	Record the cumulative brightening time Record the lighting time
System error		If the red ERR indicator light shines, it indicates that the lamp is running incorrectly, and the details can be viewed from this sub-interface. After viewing, you can press the "Clear" button to clear the error record
Blower speed		Displays the current blower speed
Hall Status	0000000	0 when magnetic is detected, 1 otherwise
The X-axis encodes the 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 encodes the 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
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
Description The pattern disk 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

2.2.4 Factory

Calibrate	Data download	After changing the display board, download the calibration data of the original display board from the motor board
	X-axis	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
	Y-axis	
	Colors	
	Gobo	

	Focus	range is -128~+127, and +0 indicates no adjustment.
	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
		Open, Y Hall is wrong
	Half power	Off, no half power function
		On, with half power function

3. Channel function

3.1 Channel Table

Channe 1	16 Channel mode	20-channel mode
1	X	X
2	Y	Y
3	X Fine	X Fine
4	Y Fine	Y Fine
5	XY Speed	XY Speed
6	Frost	Frost
7	Shutter	Shutter
8	Dimming	Dimming
9	Color	Color
10	Gobo	Gobo
11	Focus	Focus
12	Prism 1	Prism 1
13	Prism 2	Prism 2
14	Prism 3	Prism 3

15	Prism Rotate	Prism Rotate
16	Lamp&Reset	Lamp&Reset
17		RFU
18		Color wheel Speed
19		Dimming - Prism - Frost Speed
20		Gobo Speed

Channel parameter values (full version) :

Channel	Features	Channel values	Effects
1	X	000-255.	Horizontal 540 degree scan
2	Y	000-255.	Vertical 270 degree scan
3	X Fine	000-255.	Horizontal 1.2 degree fine tuning
4	Y Fine	000-255.	Vertical 1.2 degree fine trim
5	XY Speed	000-255.	Speed from fast to slow
6	Frost	000-127.	None
		128-255.	Frost cut in
7	Shutter	000-003.	Light brake off
		004-103.	Stroboscopic from slow to fast
		104-107.	Light gate on → (controlled by dimmer channel)
		108-207.	Pulse stroboscopic from slow to fast
		208-212.	Light gate open → (controlled by dimmer channel)
		213-251.	Random strobe from slow to fast
		252-255.	Light gate on → (controlled by dimmer channel)
8	Dimming	000-255.	Dark to light
9	Color	0000 - 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	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	Color 11+ Color 12
		120 - 124	Color 12
		125 - 129	Color 12+ Color 13
		130 - 134	Color 13
		135 - 139	Color 13+ white light
		140- 200	Positive flowing water (from fast to slow)
		200- 255	Backward flow (slow to fast)
10	Gobo	000 - 004	Gobo 1
		005 - 009	Gobo 2
		010 - 014	Gobo 3
		015 - 019	Gobo 4
		020 - 024	Gobo 5
		025 - 029	Gobo 6
		030 - 034	Gobo 7
		035 - 039	Gobo 8
		040 - 044	Gobo 9
		045 - 049	Gobo 10
		050 - 054	Gobo 11
		055 - 059	Gobo 12
		060 - 064	Gobo 13
		065 - 069	Gobo 14
		070 - 074	Gobo 15
		075 - 079	Gobo 16
		080 - 084	Gobo 17
		085 - 089	Gobo 18
		090 - 094	Gobo 1 Shake(from slow to fast)
		095 - 099	Gobo 2 Shake(from slow to fast)
		100 - 104	Gobo 3 Shake(from slow to fast)
		105 - 109	Gobo 4 Shake(from slow to fast)
		110 - 114	Gobo 5 Shake(from slow to fast)
		115 - 119	Gobo 6 Shake(from slow to fast)
		120 - 124	Gobo 7 Shake(from slow to fast)
		125 - 129	Gobo 8 Shake(from slow to fast)
		130 - 134	Gobo 9 Shake(from slow to fast)
		135 - 139	Gobo 10 Shake(from slow to fast)
		140 -144	Gobo 11 Shake(from slow to fast)
		145-149	Gobo 12 Shake(from slow to fast)
		150-154	Gobo 13 Shake(from slow to fast)

		155-159	Gobo 14 Shake(from slow to fast)
		160-164	Gobo 15 Shake(from slow to fast)
		165-169	Gobo 16 Shake(from slow to fast)
		170-174	Gobo 17 Shake(from slow to fast)
		175-179	Gobo 18 Shake(from slow to fast)
		180- 217	Backward running water (fast to slow)
		218- 255	Forward flow (slow to fast)
11	Focus	000-255	Gobo clarity from far to near
12	Prism 1	000-127	None
		128-191	Prism 1-1Cut in
		192-255	Prism 1-2 Cut in
13	Prism 2	000-127	None
		128-255	Prism 2Cut in
14	Prism 3	000-127	None
		128-255	Prism 3Cut in
15	Prism Rotate	000-127	Prism Angle adjustment
		128-190	Reverse rotation (from fast to slow)
		191-192	Stop
		193-255	Forward rotation (slow to fast)
16	Lamp&Reset	000-025	None
		026-050	Lamp Off
		061-085	Lamp On
		100-109	Reset XY
		200-209	Reset Effect
		251-255	Reset All
Expansion channel 17	RFU	000-255.	Speed from fast to slow
18	Color wheel Speed		
19	Dimming - Prism - Frost Speed		
20	Gobo Speed		

Common faults

According to some common faults, the corresponding solutions are put forward. Any problems that cannot be solved should be dealt with by professionals. Disconnect the light fixture from the power supply before maintaining it.

1. The light bulb is not working

- Check that the voltage that matches the light fixture is installed;
- Check whether the lamp power supply connection or control switch is in poor contact;

- Check whether the power supply is insufficient;
- Check that the DMX512 controller is sending instructions.

2. The light fixture does not accept control from the console after normal reset

- Check luminaire digital start address value and function options 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, check whether the signal amplifier connected to the series is invalid;
- Check whether the communication line is too long or other devices interfere with each other;
- Optimize wiring, shorten the length of the control signal line, high-voltage and low-voltage lines separate wiring;
- Add signal amplifiers;
- Signal line adopts high quality shielded twisted pair wire;
- Connect the signal terminal resistor (120 ohms) at the end of the lamp.

3. Luminaire does not start

- Check that the power supply parameters are consistent with the luminaire;
- Check the lamps in the long distance transportation process due to extrusion deformation, internal parts vibration, moisture and other reasons, resulting in poor contact

  Or fall off.
- Please check whether the internal wire integration connector of the lamp has fallen off and is loose.
- Check whether the electronic components of the lamp (such as electronic transformer, PCB board, motor control board, etc.) are loose, short circuit and burned out.

4. When working, the action of the X axis or Y axis of the luminaire is abnormal

- Check them one by one by following the previous step;
- Check whether the transmission belt corresponding to the X and Y axis direction in the lamp falls off and breaks;
- Check whether the data feedback receiver (optocoupler) corresponding to the X and Y directions in the lamp is damaged;
- Restart and reset once.