

BSW 380 IPUser Manual



Guangzhou Mitek Light Co.,LTD

Email: info@miteklight.com Website: www.miteklight.com

Add: No. 21 Dongfeng Avenue, Automobile Industry Base, Huadu District, Guangzhou

TECHNICAL PARAMETERS

Light source

Light source power: Osram 371W; Voltage: AC 200V~240V/50~60Hz;

Optical Zoom: 2 - 43°

Controls

Control mode: DMX512/ master-slave/automatic;

Effect

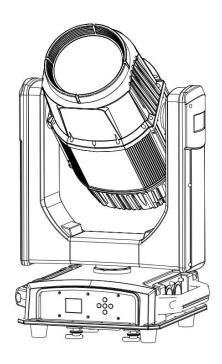
Color disk: each color disk is composed of a color plate + white light;

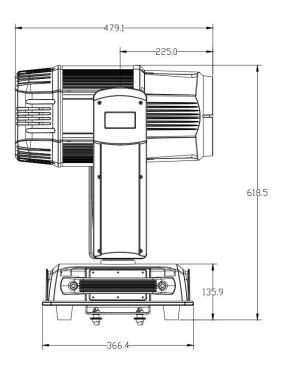
Pattern plate: a pattern effect;

Construction

540° pan, 270° tilt. Overheat protection; IP65 protection level

SIZE DRAWING





Gobo



















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 lamp 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 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.



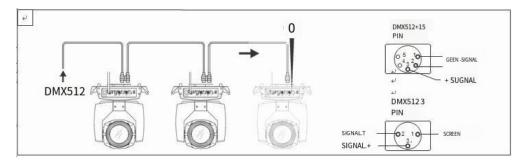


Figure 1 Schematic diagram of DMX signal wire connection

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)

1.5 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 debugging of the lamps, pedestrians are forbidden to pass under the lamps. Regularly check whether the safety rope is worn and whether the hook screws are loose.

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

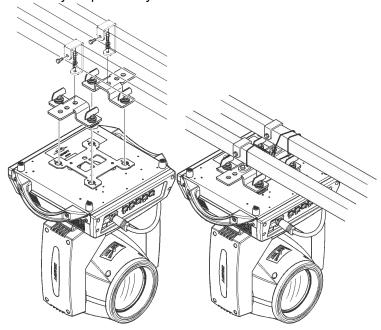


Figure 2 Schematic diagram of the lamp hanging upside down

2.Control panel

2.1 Key Instructions

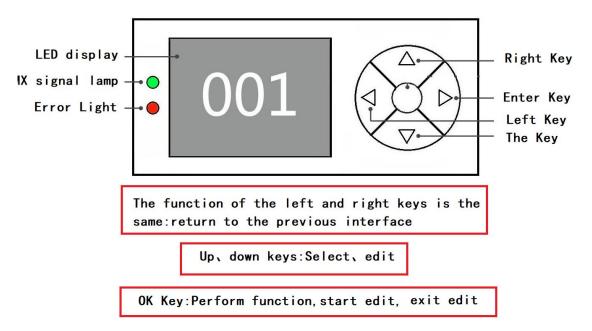


Figure 3 Schematic diagram of key description on the panel

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 | | | |
| Talling III a | 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 | Standard 20 channel mode | | |
| _ | 20CH | | | |
| Language | Chinese | Set to the Chinese interface | | |
| 0 60 | English | Set to English interface | | |
| Screen flip | Off | Front display | | |
| X 1 | On | Screen inverted display | | |
| X Inversion | Off | | | |
| V Davis and | On | | | |
| Y Reversal | Off On | | | |
| XY swap | Off | | | |
| Λι Swap | On | Channel to swap XY axes (incl. trims) | | |
| XY encoder | On | Use an encoder (optocoupler) to judge out of step and automatically | | |
| X1 chooder | | 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 | | |
| | | If the blower speed is too low, the bubble will be automatically deflated | | |
| turn off bubble | | | | |
| Turn on bright | Off | Reset directly after powering on, no light bulb (need to manually light | | |
| bubble | | 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 | | |
| | | Press "OK" to see the confirmation dialog box, press "OK" again to | | |
| Settings restore the default Settings | | restore the default Settings | | |

2.2.2 System

| Options | Instructions | | |
|------------------|---------------------|--|--|
| DIS | | Display board software version | |
| MT | | Motor board software version | |
| 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 | |
| Time Information | Total bright bubble | Cumulative brightening time (accurate to minute) | |
| | Total usage | Cumulative usage time (accurate to minute) | |



| 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 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 encodes the disk step value | 0000 | The step value should increase in the forward direction and decrease in the reverse direction. The number should be normal every time you reach the same point |

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

2.2.3 Factory

| Calibrate | X-axis | After entering the sub-interface, the reset position of the motor |
|-----------|------------------|--|
| | Y-axis | such as X axis and Y axis can be adjusted to make up for the error on the hardware installation. The adjustment range is |
| | Colors | |
| | Gobo | -128~+127, and +0 indicates no adjustment. |
| | Gobo2 | |
| | Gobo2 Rotation | |
| | Focus | |
| | Zoom | |
| | D: : | |
| | Dimming | |
| | Prism 1 Zero | |
| | Prism 1 Stroke | |
| | Prism 2 Zero | |
| | Prism 2 Stroke | |
| | Prism rotation | |
| | Frost zero | |
| | Atomizing stroke | |

3. Channel function

3.1 Channel Table

| Channala | Channel mode | | | |
|----------|----------------|--|--|--|
| Channels | 20 | | | |
| 1 | X | | | |
| 2 | X Fine | | | |
| 3 | Υ | | | |
| 4 | Y Fine | | | |
| 5 | XY Speed | | | |
| 6 | Shutter | | | |
| 7 | Dimming | | | |
| 8 | Colors | | | |
| 9 | Gobo | | | |
| 10 | Gobo2 | | | |
| 11 | Gobo2 Rotation | | | |
| 12 | Prism 1 | | | |
| 13 | Prism 1 Rotate | | | |
| 14 | Prism 2 | | | |
| 15 | Prism 2 Rotate | | | |
| 16 | Frost | | | |
| 17 | Zoom | | | |
| 18 | Focus | | | |
| 19 | Reset | | | |
| 20 | Lamp | | | |

Channel parameter values (full version) :

| 20 channels | Features | Channel values | Effects |
|----------------|----------|----------------|--|
| 1 | X | 000-255. | Horizontal 540 degree scan |
| 2 | X Fine | 000-255. | Horizontal 1.2 degree fine tuning |
| 3 | Υ | 000-255. | Vertical 270 degree scan |
| 4 | Y Fine | 000-255. | Vertical 1.2 degree fine trim |
| 5 | XY Speed | 000-255. | Speed from fast to slow |
| 6 | Shutter | 000-003. | Light brake off |
| | | 004-103. | Stroboscopic from slow to fast |
| | | 104-107. | Light gate on \rightarrow (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 \rightarrow (controlled by dimmer channel) |
| 7 | Dimming | 000-255. | Dark to light |
| 8 | Colors | 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 |

| 050-054 | | | T = 1 = 1 = | |
|--|----|-------|-------------|--|
| 055-059 Color 5+ Color 6 060-064 Color 6 065-069 Color 6+ Color 7 070-074 Color 7* Color 7* Color 8 080-084 Color 8 080-084 Color 8+ Color 9 090-094 Color 9+ Color 10 100-104 Color 10 105-109 Color 11+ Color 11 115-119 Color 11+ Color 12 120-124 Color 12 125-129 Color 13* white light 140-200 Positive flowing water (from fast to slow) 9 Gobo On-04 White Light 060-064 Gobo 1 070-074 Gobo 1 070-074 Gobo 1 070-074 Gobo 1 070-074 Gobo 1 070-075 | | | 045-049 | Color 4+ Color 5 |
| 060-064 Color 6 Color 7 | | | 050-054 | |
| 065-069 | | | 055-059 | Color 5+ Color 6 |
| 070-074 | | | 060-064 | Color 6 |
| 075-079 Color 7+ Color 8 | | | 065-069 | Color 6+ Color 7 |
| 075-079 Color 7+ Color 8 | | | 070-074 | Color 7 |
| 080-084 Color 8 Color 9 | | | | |
| 085-089 | | | | |
| O90-094 | | | | |
| Q95-Q99 | | | | |
| 100-104 | | | | |
| 105-109 | | | | |
| 110-114 | | | | |
| 115-119 | | | | |
| 120-124 | | | | |
| 125-129 | | | | |
| 130-134 | | | | |
| 135-139 | | | 125-129 | |
| 9 Gobo 000-004 Backward flow (slow to fast) 9 Gobo 000-004 White Light 005-009 Gobo 1 010-014 Gobo 2 015-019 Gobo 3 020-024 Gobo 4 025-029 Gobo 5 030-034 Gobo 6 035-039 Gobo 7 040-044 Gobo 8 045-049 Gobo 10 055-059 Gobo 11 060-064 Gobo 12 065-069 Gobo 13 070-074 Gobo 14 075-079 Gobo 15 Shake(from slow to fast) 080-084 Gobo 2 Shake(from slow to fast) 080-084 Gobo 5 Shake(from slow to fast) 080-084 Gobo 5 Shake(from slow to fast) 090-094 Gobo 6 Shake(from slow to fast) 100-104 Gobo 6 Shake(from slow to fast) 100-104 Gobo 6 Shake(from slow to fast) 100-104 Gobo 7 Shake(from slow to fast) 100-104 Gobo 6 Shake(from slow to fast) 110-114 Gobo 6 Shake(from slow to fast) 110-114 Gobo 8 Shake(from slow to fast) 120-124 Gobo 10 Shake(from slow to fast) 120-124 Gobo 10 Shake(from slow to fast) 130-134 Gobo 1 Shake(from slow to fast) 130-135 Gobo 13 Shake(from slow to fast) 130-136 Gobo 13 Shake(from slow to fast) 130-137 Gobo 13 Shake(from slow to fast) 130-138 Gobo 13 Shake(from slow to fast) 140-144 Gobo 605-009 Gobo 1 100-014 Gobo 2 005-009 Gobo 1 005-009 Gobo 1 005-009 Gobo 3 020-024 Gobo 4 | | | 130-134 | Color 13 |
| 9 Gobo 000-004 White Light Gobo 2 005-009 Gobo 1 000-014 Gobo 2 015-019 Gobo 3 020-024 Gobo 6 030-034 Gobo 6 035-039 Gobo 7 040-044 Gobo 8 045-049 Gobo 10 060-064 Gobo 12 Gobo 13 070-074 Gobo 13 070-074 Gobo 14 075-079 Gobo 13 Shake(from slow to fast) 090-094 Gobo 6 Shake(from slow to fast) 100-104 Gobo 8 Shake(from slow to fast) 100-104 Gobo 6 Shake(from slow to fast) 100-104 Gobo 6 Shake(from slow to fast) 100-104 Gobo 6 Shake(from slow to fast) 100-104 Gobo 1 Shake(from slow to fast) 100-104 Gobo 6 Shake(from slow to fast) 100-104 Gobo 6 Shake(from slow to fast) 100-104 Gobo 6 Shake(from slow to fast) 100-104 Gobo 9 Shake(from slow to fast) 100-104 Gobo 8 Shake(from slow to fast) 100-104 Gobo 9 Shake(from slow to fast) 100-104 Gobo 1 Shake(from slow to fast) 110-114 Gobo 8 Shake(from slow to fast) 110-114 Gobo 1 Shake(from slow to fast) 110-124 Gobo 10 Shake(from slow to fast) 110-124 Gobo 11 Shake(from slow to fast) 110-124 Gobo 12 Shake(from slow to fast) 110-124 Gobo 14 Shake(from slow to fast) 110-124 Gobo 14 Shake(from slow to fast) 110-124 Gobo 15 Shake(from slow to fast) 110-125 Gobo 11 Shake(from slow to fast) 110-126 Gobo 11 Shake(from slow to fast) 110-127 Gobo 12 Shake(from slow to fast) 110-128 Gobo 13 Shake(from slow to fast) 110-129 Gobo 14 Shake(from slow to fast) 110-129 Gobo 15 Shake(from slow to fast) 110-129 Gobo | | | 135-139 | Color 13+ white light |
| 9 Gobo 000-004 White Light 005-009 Gobo 1 010-014 Gobo 2 015-019 Gobo 3 020-024 Gobo 4 025-029 Gobo 5 030-034 Gobo 6 035-039 Gobo 7 040-044 Gobo 8 045-049 Gobo 10 055-059 Gobo 11 060-064 Gobo 12 065-069 Gobo 13 070-074 Gobo 14 075-079 Gobo 1 Shake(from slow to fast) 090-094 Gobo 9 Shake(from slow to fast) 090-094 Gobo 5 Shake(from slow to fast) 090-094 Gobo 5 Shake(from slow to fast) 090-094 Gobo 6 Shake(from slow to fast) 090-094 Gobo 6 Shake(from slow to fast) 100-104 Gobo 6 Shake(from slow to fast) 110-114 Gobo 8 Shake(from slow to fast) 120-124 Gobo 10 Shake(from slow to fast) 125-129 Gobo 11 Shake(from slow to fast) 125-129 Gobo 13 Shake(from slow to fast) 125-129 Gobo 14 Shake(from slow to fast) 130-134 Gobo 12 Shake(from slow to fast) 130-134 Gobo 12 Shake(from slow to fast) 140-144 Gobo 14 Shake(f | | | 140-200 | Positive flowing water (from fast to slow) |
| 005-009 | | | 201-255 | Backward flow (slow to fast) |
| 005-009 | 9 | Gobo | | |
| 010-014 Gobo 2 015-019 Gobo 3 020-024 Gobo 4 025-029 Gobo 5 030-034 Gobo 6 035-039 Gobo 7 040-044 Gobo 8 045-049 Gobo 10 055-059 Gobo 11 060-064 Gobo 12 065-069 Gobo 14 075-079 Gobo 14 075-079 Gobo 1 Shake(from slow to fast) 080-084 Gobo 2 Shake(from slow to fast) 090-094 Gobo 4 Shake(from slow to fast) 090-094 Gobo 5 Shake(from slow to fast) 095-099 Gobo 6 Shake(from slow to fast) 095-099 Gobo 6 Shake(from slow to fast) 095-099 Gobo 7 Shake(from slow to fast) 100-104 Gobo 6 Shake(from slow to fast) 110-114 Gobo 8 Shake(from slow to fast) 120-124 Gobo 10 Shake(from slow to fast) 120-124 Gobo 10 Shake(from slow to fast) 120-124 Gobo 10 Shake(from slow to fast) 125-129 Gobo 11 Shake(from slow to fast) 130-134 Gobo 12 Shake(from slow to fast) 130-134 Gobo 12 Shake(from slow to fast) 140-144 Gobo 14 Shake(from slow to fast) 140-145-200 Backward running water (fast to slow) Forward flow (slow to fast) Gobo 1 Gobo 2 Gobo 3 Gobo 4 Gobo | | | | |
| 015-019 Gobo 3 020-024 Gobo 4 025-029 Gobo 5 030-034 Gobo 6 035-039 Gobo 7 040-044 Gobo 8 045-049 Gobo 9 050-054 Gobo 10 055-059 Gobo 11 060-064 Gobo 12 065-069 Gobo 13 070-074 Gobo 14 O75-079 Gobo 15 Gobo 15 Gobo 16 Gobo 18 Gobo 18 Gobo 18 Gobo 19 Gobo 29 Gobo 19 Gobo 19 Gobo 19 Gobo 29 Gobo 19 Gobo 29 Gobo 19 Gobo 29 Gobo 39 Gobo 40 Gobo 29 Gobo 40 Gobo 29 Gobo 39 Gobo 39 Gobo 40 Gobo 29 Gobo 30 Gobo 30 Gobo 40 Gobo 20 Gobo 30 Gobo 30 Gobo 30 Gobo 40 Gobo 20 Gobo 30 Gobo 30 Gobo 30 Gobo 40 Gobo 20 Gobo 30 Gobo 30 Gobo 30 Gobo 30 Gobo 30 Gobo 30 G | | | | |
| 020-024 025-029 Gobo 5 | | | | |
| 025-029 | | | | |
| 030-034 Gobo 6 | | | | |
| 035-039 | | | | |
| 040-044 Gobo 8 045-049 Gobo 9 050-054 Gobo 10 055-059 Gobo 11 060-064 Gobo 12 065-069 Gobo 13 070-074 Gobo 14 075-079 Gobo 1 Shake(from slow to fast) 080-084 Gobo 2 Shake(from slow to fast) 080-084 Gobo 3 Shake(from slow to fast) 090-094 Gobo 4 Shake(from slow to fast) 090-094 Gobo 5 Shake(from slow to fast) 095-099 Gobo 5 Shake(from slow to fast) 100-104 Gobo 6 Shake(from slow to fast) 105-109 Gobo 7 Shake(from slow to fast) 110-114 Gobo 8 Shake(from slow to fast) 110-114 Gobo 9 Shake(from slow to fast) 120-124 Gobo 10 Shake(from slow to fast) 120-124 Gobo 11 Shake(from slow to fast) 130-134 Gobo 12 Shake(from slow to fast) 130-134 Gobo 13 Shake(from slow to fast) 140-144 Gobo 14 Shake(from slow to fast) 140-145-200 Backward running water (fast to slow) 201-255 Forward flow (slow to fast) 10 Gobo2 000-004 White Light 005-009 Gobo 1 010-014 Gobo 2 015-019 Gobo 3 020-024 Gobo 4 | | | | |
| 045-049 | | | | |
| 050-054 | | | | |
| 055-059 | | | | |
| 060-064 | | | | |
| 065-069 | | | | |
| 070-074 | | | | |
| 075-079 | | | | |
| 080-084 | | | | |
| 085-089 Gobo 3 Shake(from slow to fast) | | | | |
| 090-094 Gobo 4 Shake(from slow to fast) | | | 080-084 | |
| 095-099 | | | 085-089 | Gobo 3 Shake(from slow to fast) |
| 100-104 Gobo 6 Shake(from slow to fast) | | | 090-094 | Gobo 4 Shake(from slow to fast) |
| 105-109 | | | 095-099 | Gobo 5 Shake(from slow to fast) |
| 105-109 | | | 100-104 | Gobo 6 Shake(from slow to fast) |
| 110-114 Gobo 8 Shake(from slow to fast) 115-119 Gobo 9 Shake(from slow to fast) 120-124 Gobo 10 Shake(from slow to fast) 125-129 Gobo 11 Shake(from slow to fast) 130-134 Gobo 12 Shake(from slow to fast) 135-139 Gobo 13 Shake(from slow to fast) 140-144 Gobo 14 Shake(from slow to fast) 145-200 Backward running water (fast to slow) 201-255 Forward flow (slow to fast) 10 Gobo 2 O00-004 White Light 005-009 Gobo 1 010-014 Gobo 2 015-019 Gobo 3 020-024 Gobo 4 | | | | , , |
| 115-119 Gobo 9 Shake(from slow to fast) 120-124 Gobo 10 Shake(from slow to fast) 125-129 Gobo 11 Shake(from slow to fast) 130-134 Gobo 12 Shake(from slow to fast) 135-139 Gobo 13 Shake(from slow to fast) 140-144 Gobo 14 Shake(from slow to fast) 145-200 Backward running water (fast to slow) 201-255 Forward flow (slow to fast) 10 Gobo 2 000-004 White Light 005-009 Gobo 1 010-014 Gobo 2 015-019 Gobo 3 020-024 Gobo 4 | | | | , , |
| 120-124 Gobo 10 Shake(from slow to fast) | | | | |
| 125-129 Gobo 11 Shake(from slow to fast) 130-134 Gobo 12 Shake(from slow to fast) 135-139 Gobo 13 Shake(from slow to fast) 140-144 Gobo 14 Shake(from slow to fast) 145-200 Backward running water (fast to slow) 201-255 Forward flow (slow to fast) 10 Gobo 2 000-004 White Light 005-009 Gobo 1 010-014 Gobo 2 015-019 Gobo 3 020-024 Gobo 4 | | | | , , |
| 130-134 Gobo 12 Shake(from slow to fast) 135-139 Gobo 13 Shake(from slow to fast) 140-144 Gobo 14 Shake(from slow to fast) Backward running water (fast to slow) 201-255 Forward flow (slow to fast) 10 Gobo 2 000-004 White Light 005-009 Gobo 1 010-014 Gobo 2 015-019 Gobo 3 020-024 Gobo 4 | | | | |
| 135-139 Gobo 13 Shake(from slow to fast) 140-144 Gobo 14 Shake(from slow to fast) 145-200 Backward running water (fast to slow) 201-255 Forward flow (slow to fast) 10 Gobo 2 Gobo 1 Gobo 2 Gobo 3 Gobo 4 Gobo 4 | | | | , |
| 140-144 Gobo 14 Shake(from slow to fast) 145-200 Backward running water (fast to slow) 201-255 Forward flow (slow to fast) 10 Gobo2 000-004 White Light 005-009 Gobo 1 010-014 Gobo 2 015-019 Gobo 3 020-024 Gobo 4 | | | | , |
| 145-200 Backward running water (fast to slow) 201-255 Forward flow (slow to fast) 10 Gobo2 000-004 White Light 005-009 Gobo 1 010-014 Gobo 2 015-019 Gobo 3 020-024 Gobo 4 | | | | |
| 201-255 Forward flow (slow to fast) 10 Gobo2 000-004 White Light 005-009 Gobo 1 010-014 Gobo 2 015-019 Gobo 3 020-024 Gobo 4 | | | | |
| 10 Gobo2 000-004 White Light 005-009 Gobo 1 010-014 Gobo 2 015-019 Gobo 3 020-024 Gobo 4 | | | | · , |
| 005-009 Gobo 1 010-014 Gobo 2 015-019 Gobo 3 020-024 Gobo 4 | 40 | Cohen | | ` ' |
| 010-014 Gobo 2 015-019 Gobo 3 020-024 Gobo 4 | 10 | G0002 | | |
| 015-019 Gobo 3 020-024 Gobo 4 | | | | |
| 020-024 Gobo 4 | | | | |
| | | | | |
| 025-029 Gobo 5 | | | | |
| | | | 025-029 | Gobo 5 |

| | | 030-034 | Gobo 6 |
|----|----------|----------|--|
| | | 035-039 | Gobo 7 |
| | | 040-044 | Gobo 8 |
| | | 045-049 | Gobo 9 |
| | | 050-059 | Gobo 1 Shake (from slow to fast) |
| | | 060-069 | Gobo 2 Shake (slow to fast) |
| | | 070-079 | Gobo 3 Shake (slow to fast) |
| | | 080-089 | Gobo 4 Shake (slow to fast) |
| | | 090-099 | Gobo 5 Shake(slow to fast) |
| | | 100-109 | Gobo 6 Shake(slow to fast) |
| | | 110-119 | Gobo 7 Shake(slow to fast) |
| | | 120-129 | Gobo 8 Shake(slow to fast) |
| | | 130-139 | Gobo 9 Shake(slow to fast) |
| | | 140-200 | Forward flowing water (fast to slow) |
| | | 201-255 | Backward flow (slow to fast) |
| 11 | Gobo2 | 000-127. | Angle adjustment |
| | Rotation | 128-190. | Forward fast rotation to slow rotation |
| | | 191-192. | Stop |
| | | 193-255. | Reverse slow spin to fast spin |
| 12 | Prism 1 | 000-127. | None |
| | | 128-255. | Prism 1 Cut in |
| 13 | Prism 1 | 000-127. | Prism Angle adjustment |
| | Rotate | 128-190. | Forward rotation (from fast to slow) |
| | | 191-192. | Stopping |
| | | 193-255. | Reverse rotation (from slow to fast) |
| 14 | Prism 2 | 000-127. | None |
| | | 128-255. | Prism 2 Cut in |
| 15 | Prism 2 | 000-127. | Prism Angle adjustment |
| | Rotate | 128-190. | Forward rotation (from fast to slow) |
| | | 191-192. | Stopping |
| | | 193-255. | Reverse rotation (from slow to fast) |
| 16 | Frost | 000-127. | None |
| | | 128-255. | Frost cut in |
| 17 | Zoom | 000-255. | Gobo clarity from far to near |
| 18 | Focus | 000-255. | Gobo clarity from far to near |
| | | | , |
| 19 | Reset | 000-025. | None |
| | | 026-050. | Reset Effect |
| | | 061-085. | Reset XY |
| | | 251-255. | Reset All |
| 20 | Lamp | 000-099. | None |
| | | 100-109. | Lamp Off |
| | | 200-209. | Lamp On |
| | | | 1 |

4. 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.

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.



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 using high quality shielded twisted pair wire;
- Connect the signal terminal resistor (120 ohms) at the end of the lamp.

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.

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;
- Reboot and reset once.

REMARK

The product has perfect performance and intergrity packing. All users should be strictly comply with the warning and operating instructions as stated.

Or we aren 't in charge of any result by misusing.

Any damage resulting by misuse is not within the Company 's warranty.

Any fault or problem caused by neglecting the manual is also not in the charge of dealers.

Errors and omissions for every information given in this manual excepted.

All information is subject to change without prior notice.

