

SL-M380-BSW

380W 3IN1 Beam Spot Wash Moving Head



This product manual contains important information about the safe installation and use of this projector. Please read and follow these instructions carefully and keep this manual in a safe place for future reference.

User manual

Please read the instructions carefully before use

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STATEMENT

The product has well capability and intact packing when leave factory. All of the user should comply with warning item and manual, any misuse cause of the damages are not included in our guarantee, and also can not be responsible for any malfunction & problem owing to ignore the manual.

1.Safety Instruction

Please keep this User Guide for future consultation. If you sell the unit to another user, be sure that they also receive this instruction booklet.

Unpack and check carefully there is no transportation damage before using the unit.

Before operating, ensure that the voltage and frequency of power supply match the power requirements of the unit.

It's important to ground the yellow/green conductor to earth in order to avoid electric shock.

The unit is for indoor use only. Use only in a dry location.

The unit must be installed in a location with adequate ventilation, at least 50cm from adjacent surfaces. Be sure that no ventilation slots are blocked. Disconnect main power before replacement or servicing.

Make sure there are no flammable materials close to the unit while operating as it is fire hazard.

Use safety cable when fixes this unit. DO NOT handle the unit by taking its head only, but always by taking its base.

Maximum ambient temperature is T_a : 40°C. DO NOT operate it where the temperature is higher than this Unit surface temperature may reach up to 85°C. DO NOT touch the housing bare-hand during its operation. Turn off the power and allow about 15 minutes for the unit to cool down before replacing or serving.

In the event of serious operating problem, stop using the unit immediately. Never try to repair the unit by yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center. Always use the same type spare parts.

DO NOT touch any wire during operation as high voltage might be causing electric shock.

WARNING:

To prevent or reduce the risk of electrical shock or fire, do not expose the unit to rain or moisture.

DO NOT open the unit within five minutes after switching off.

The housing, the lenses, or the ultraviolet filter must be replaced if they are visibly damaged.

CAUTION:

There are no user serviceable parts inside the unit. DO NOT open the housing or attempt any repairs yourself. In the unlikely event your unit may require service, please contact your nearest dealer.

INSTALLATION:

The unit should be mounted via its screw holes on the bracket. Always ensure that the unit is firmly fixed to avoid vibration and slipping while operating. And make sure that the structure to which you are attaching the unit is secure and is able to support a weight of 10 times of the unit's weight. Also always use a safety cable that can hold 12 times of the weight of the unit when installing the fixture.

The equipment must be fixed by professionals. And it must be fixed at a place where is out of the touch of people.

2. Technical Specification

- Voltage: AC90V-240V 50-60Hz
- Rating power: 650W
- Light source: High power 380W 18R lamp
- Color temperature; 6800K
- Color Wheel: 10+White+ Colorful Rainbow effect + Atomization function
- Static Wheel: 9 fixed gobos +White
- Glass Gobo: 7 glass gobos +White
- Focus system: electronic focus
- Atomization; It has the function of atomization and can achieve the soft light effect
- Stroboscopic; dual motor independent stroboscopic effect, 0.5-30 times/second, adjustable speed
- Motor: XY axis using encoder with three-phase motor, so that the lamp fast

and slow speed stability is high, positioning angle is accurate

- Dimming curve: 0%-100% linear dimming, smooth without flicker
- Beam Angle: 3.8°
- Zoom Angle: 4°-45°
- Channel: 20 channels
- Waterproof rating: IP20
- Control mode 1: DMX 512, auto run, master and slave, RDM function
- Prism system :8-facet circular prism can be rotated(any other prism effect can be customized).
- Display: LCD display, adapt to different installation positions, can rotate 180°
- Horizontal and vertical: adopt high-precision three-phase magnetic coding motor, accurate positioning, smooth operation, can automatically correct positioning
- Level: 540° rotation, 8/16bit resolution, with fine tuning
- Vertical: 270° rotation, 8/16bit resolution, with fine tuning '.
- Heating system: Using the physical fan heat method, using the air convection system method to use the CFD software to analyze and calculate the heat flow of the lamp, quickly solve the internal heat of the body, prolong the decay time of the lamp source, ensure the service life of the bulb, and design a low-noise cooling system. Fan drive performance excellent.
- Installation: upside down/side hanging/flat
- Size: 323*240*570cm
- Weight': 14.5KGs

3.How to Control The Device

The DMX512 is widely used in intelligent lighting control, with a DMX 512

controller. connect several lights together, dmx in and dmx out, 3 pin XLR connectors: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+)

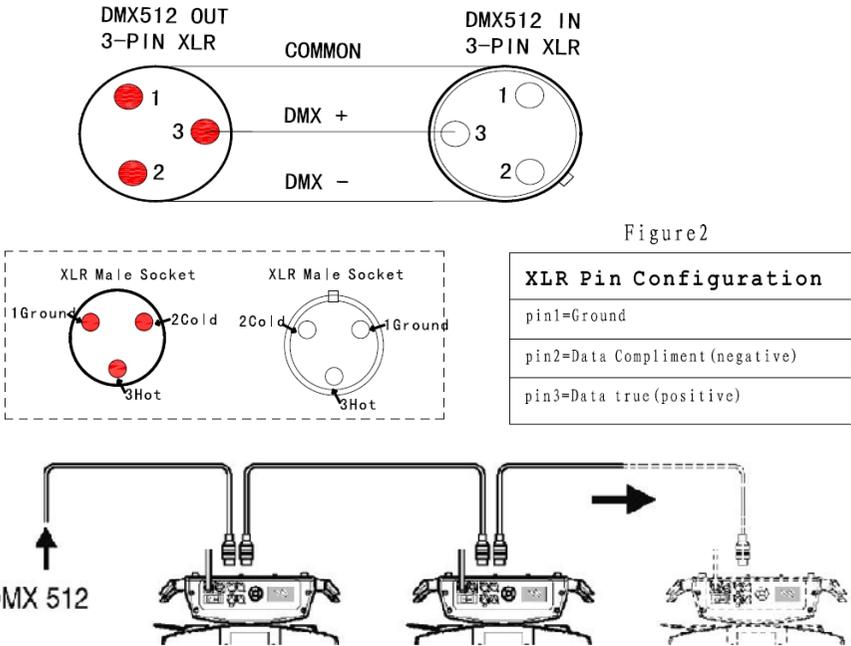


Figure2

XLR Pin Configuration	
pin1	=Ground
pin2	=Data Compliment (negative)
pin3	=Data true (positive)

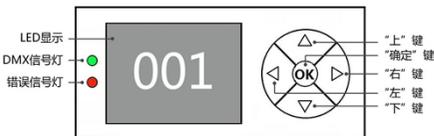
Display:

- MENU To select the programming functions
- DOWN To go backward in the selected functions
- UP To go forward in the selected functions
- ENTER To confirm the selected functions

Set DMX Address Code

1. Press "**Menu**" to "Set DMX Address", and press "**ENTER**" keys to enter into
2. Show "Set DMX Address DMX Address:001", Press the "**UP** and **DOWN**" keys to amended
3. Press "**ENTER**" keys to save and Exit, Press the "**MENU**" Keys does not save and Exit

Button description



"左" "右" 键的功能是一样的: 返回上一界面

"上"、"下" 键: 选择、编辑

"确定" 键 (即 "OK" 键): 执行功能、开始编辑、退出编辑

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

1. If the current home screen is not displayed, press the left key (one or more times) to return to the home screen
2. On the home screen, press the Up key or the Down key to select the Settings button
3. Press the OK key to enter the Settings screen
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



2.2.1 Setting

Options	Instructions	
Operation mode	DMX	Slave status: Receives DMX signal from console or host
	Auto	Host status: Self-drive and send DMX signal to slave
	Sound	
DMX Address	1~512	Press "OK" to enter the editing state. Select the hundred digit and press the Up and Down keys to change the address code. Press "OK" again to select the ten edit. Press the "OK" key again to select a bit for editing. Press again to exit the editing state
Lamp	Off	Lamp off
	On	Lamp On
Motor Reset	Off	
	On	Fixture reset
Channel Mode	20CH	20 Channels
Language	中文	Set the interface to Chinese
	English	Set the interface to English
Screen overturn	Off	Frontal display
	Open	Screen inverted display
Pan reversal	Off	
	Open	
Tilt reversal	Off	
	Open	
Pan/Tilt encoder	Open	Use the encoder (optocoupler)
	Off	No encoder (optocoupler) is used to correct the position
DMX Signal	Keep	Continue running in the original state
	Zero clear	Motor return, stop running
Wind speed low off lamp	Open	If the speed of the fan is too low, the lamp will be off
	Off	If the speed of the fan is too low, the lamp will not off
Lamp on when Switch power	Off	Direct reset after power-on, not light up the lamp
	On	Direct reset after power-on, light up the lamp
The color wheel changes linearly	On	The color wheel changes linearly
	Off	Color wheel nonlinear change, half-color change
Restore default Settings		Press "OK" to see the confirmation dialog box, press "OK" again to restore the default Settings

2.2.2 Info

Options	Instructions	
DIS		Display board software version
MT		Motor board software version
Manual control		
Time info	9999	9999 Means no encryption, can be used for a long time; Other values represent the remaining time of use, encrypted;
Blower speed		Displays the current blower speed
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 the error record, you can press the "Clear" key to clear the error record
Hall state	0000000	0 when magnetic is detected, 1 otherwise
X-axis encoding disk step value	0000	The step value should increase in the forward direction and decrease in the reverse direction. The value is normal every time you go to the same point
Tilt encoding disk step value	0000	The step value should increase in the forward direction and decrease in the reverse direction. The value is normal every time you go to the same point

A.Manual Control Instructions

This interface is used to control the current lamp and automatically enter the host state (does not receive DMX signal, sends DMX signal to the bus to the slave machine).

The manual menu displays 20 channels according to the standard 20-channel mode set in the Settings menu.

Options	Instructions	
1.Color	0~255	Press "OK" to enter the editing state. Select the hundred digit and press the Up and Down keys to change the channel value. Press "OK" again to select the ten edit. Press the "OK" key again to select a bit for editing. Press again to exit the editing state
2.Strobe	0~255	
3.Dimmer		
4.Fixed Gobo		
5.Glass Gobo		

6.Glass Rotate	Gobo	0~255	
7.Prism			
8.Prism Rotate			
9.Frost			
10.Zoom			
11.Zoom Fine			
12.Focus			
13.Focus Fine			
14.Pan			
15.Pan Fine		0~255	
16.Tilt			
17.Tilt Fine		0~255	
18.Pan Tilt Speed		0~255	
19.Prism Macro		0~255	
20.Reset		0~255	Press "OK" to see the confirmation dialog box, press "OK" again, enter the reset interface, all the motor reset

Common error message	Instructions
The MT board fails to be connected	The motor board is not responding. The serial communication line connecting the display board and the motor board is faulty, or the motor board is faulty.
Pan reset failed	There is a problem with the motor or motor board
Tilt reset failed	There is a problem with the motor or motor board
Pan Hall failed	There is a problem with the motor or motor board
Tilt Hall failed	There is a problem with the motor or motor board
Color wheel reset failed	There is a problem with the motor or hall
Gobo wheel reset failed	There is a problem with the motor or hall
Focus reset failed	There is a problem with the motor or hall
Lamp control failed	There is a problem with lamp or ballast

2.2.3 Factory Setting

Calibrate	Pan	After entering the sub-interface, you can adjust the reset position of the X axis, Y axis and other motors to make up for the error on the hardware installation. The adjustment range is -128 to +127, and +0 indicates that there is no adjustment.
	Tilt	
	Color	
	Gobo	
	Focus	
	Dimmer	
	Prism	
	Prism route	
	Frost	
	Rainbow	

4. DMX Channel

DMX 512 20CHs

CH20	Function	Value	Effect
CH1	Color	001-004	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 + Color8
		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 +White
		110-200	Forward flow (fast to slow)
		201-255	Reverse flow (slow to fast)
CH2	Strobe	001003	Sutter Off
		004-103	Strobe from slow to fast
		104-107	Shutter open (controlled by dimming channel)
		108-207	Pulse strobe from slow to fast
		208-212	Shutter open (controlled by dimming channel)
		213-251	Random strobe from slow to fast
		252-255	Shutter open (controlled by dimming channel)
CH3	Dimmer	0-255	0-100% dimmer from dark to bright
CH4	Static 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 1 shake from slow to fast
055 - 059	Gobo 2 shake from slow to fast
060 - 064	Gobo 3 shake from slow to fast
065 - 069	Gobo 4 shake from slow to fast
070 - 074	Gobo 5 shake from slow to fast
075 - 079	Gobo 6 shake from slow to fast
080 - 084	Gobo 7 shake from slow to fast
085- 089	Gobo 8 shake from slow to fast
090- 094	Gobo 9 shake from slow to fast
095- 099	Gobo 10 shake from slow to fast
100- 175	Forward flow (fast to slow)

		176- 255	Reverse flow (slow to fast)
CH5	Glass Gobo	000 - 009	White
		010 - 019	Gobo 1
		020 -029	Gobo 2
		030 -039	Gobo 3
		040 - 049	Gobo 4
		050 -059	Gobo 5
		060 - 069	Gobo 6
		070 - 079	Gobo 7
		080 - 089	Gobo 1 shake from slow to fast
		090 - 099	Gobo 2 shake from slow to fast
		100 - 109	Gobo 3 shake from slow to fast
		110 - 119	Gobo 4 shake from slow to fast
		120 - 129	Gobo 5 shake from slow to fast
		130 - 139	Gobo 6 shake from slow to fast
		140 - 149	Gobo 7 shake from slow to fast
		150 - 200	Forward flow (fast to slow)
		201 - 255	Reverse flow (slow to fast)
CH6	Glass Gobo Rotate	000-127	0-400 degree adjustment
		128-191	Forward flow full speed to fast speed
		192-255	Reverse flow speed slow to fast
CH7	Prism	000-127	Remove the prism
		128-255	Insert prism
CH8	Prism Rotation	000-127	0-400 degree adjustment
		128-191	From fast to slow forward flow
		192-255	Reverse flow from slow to fast
CH9	Frost	0-127	None
		128-255	Frost
CH10	Zoom	0-255	Zoom
CH11	Zoom Fine	0-255	Zoom fine

CH12	Focus	0-255	Focus
CH13	Focus Fine	0-255	Focus Fine
CH14	Pan	0-255	Pan
CH15	Pan Fine	0-255	Pan Fine
CH16	Tilt	0-255	Tilt
CH17	Tilt Fine	0-255	Tilt Fine
CH18	Pan/Tilt Speed	0-255	Pan/Tilt Speed
CH19	Auto Run	000-015	None
		016-255	Auto Run Mode 1.2.3.4
CH20	Lamp/Reset	000-099	None
		100-105	Lamp Off
		200-205	Lamp On
		251-255	All motor reset

5. Trouble Shooting

Following are a few common problems that may occur during operation. Here are some suggestions for easy troubleshooting:

a. The unit does not work, no light and the fan does not work

1. Check the connection of power and main fuse.
2. Measure the mains voltage on the main connector.
3. Check the power on LED.

b. Not responding to DMX controller

1. DMX LED should be on. If not, check DMX connectors, cables to see if

link properly.

2. If the DMX LED is on and no response to the channel, check the address settings and DMX polarity.
3. If you have intermittent DMX signal problems, check the pins on connectors or on PCB of the unit or the previous one.
4. Try to use another DMX controller.
5. Check if the DMX cables run near or run alongside to high voltage cables that may cause damage or interference to DMX interface circuit.

c. One of the channels is not working well

1. The stepper motor might be damaged or the cable connected to the PCB is broken.
2. The motor's drive IC on the PCB might be out of condition.

6. Fixture Cleaning

The cleaning of internal and external optical lenses and/or mirrors must be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates: damp, smoky or particularly dirty surrounding can cause greater accumulation of dirt on the unit's optics.

- **Clean with soft cloth using normal glass cleaning fluid.**
- **Always dry the parts carefully.**
- **Clean the external optics at least every 20 days. Clean the internal optics at least every 30/60 days.**