BSW LED 200W

User Manual

Please read the instructions carefully before use.

1. Safety Instruction   2. How to Control the Device   3. DMX channel Tablee   4. DMX Channel Tablee
5. Trouble Shooting   6. Fixture Cleaning

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.

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 and 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. Its important to ground the yellow/green conductor to earth in order to avoid electric shock.

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 ta: 40c. Do not operate it where the temperature is higher than this unit surface temperature may reach up to 85c. 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 units 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

Power Voltage: AC 100-240V, 50/60Hz

Power Consumption: 250W

Light Sources: High power white 200W LED

Light source life: 50000 hours

Dimming system: 0-100% linear adjustment

Zoom angle: 9-30 degrees

Color: 9 colors + open. Color half-color function

Fixed gobos: 9 fixed patterns + open

Rotating gobos: 7 glass patterns, each glass pattern can be independently forward and reverse

Prism system: standard single 3-facet prism can be independently forward and reverse

Control

DMX Channel: 17 Channels | Control Modes: DMX512, Auto, Master-Slave, Music

Construction

Display: LCD Display | DMX In/Out socket: 3-pin XLR sockets | Power Socket: Powercon in/out | Protection Rating: IP20

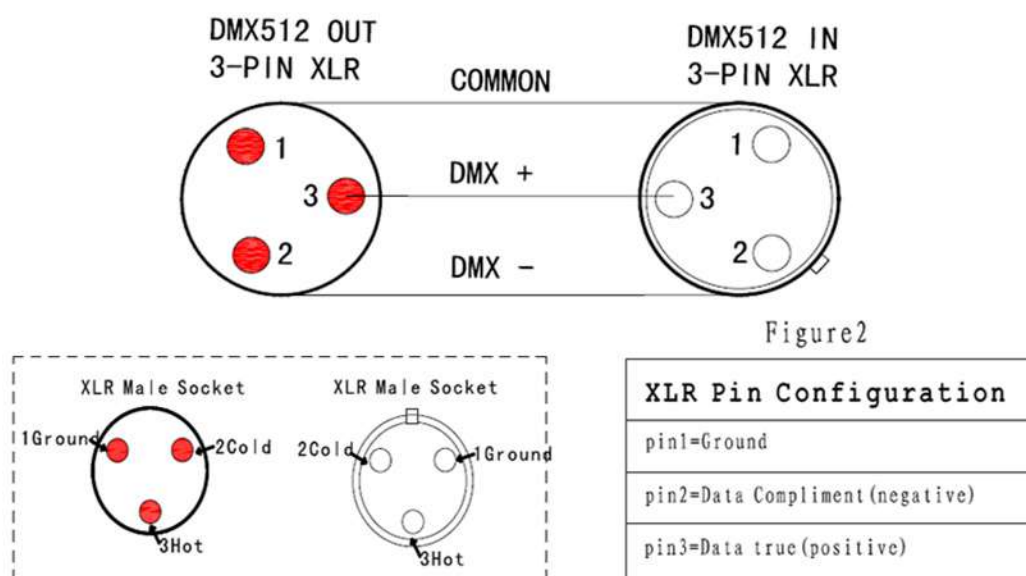**Size**

Product size: 300*220*550 mm

Weight

Net Weight: 13.5Kgs

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 (+)

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
4. Functions setting via LED display panel as below:

Main menu	Secondary menu	Third level menu/parameters
Address	001 - 512	(Add channels each time, subtract normal)
System settings	Operating mode	DMX/Sound/Auto 1 / Auto2
	Channel mode	17CH
	horizontal reversal	On/Off
	vertical reversal	On/Off
	Hall error correction	On/Off
	Optocoupler error correction	On/Off
	Signal kepp	On/Off
	Display protect	On/Off
	Display reversal	On/Off/Auto
	synchronous update	On/Off
	Language	中/EN
	Restore factory settings	
Manual mode	Manual control channel values	000-255
System Calibration	Light calibration	
System Reset	Effect motor reset	Effect reset except for XY
	Scanning motor reset	Only XY reset

System Reset	Scanning motor reset	Only XY reset
	All motor reset	Light reset
System information	Reset info	Display specific information content
	DMX Data detection	Display specific testing content for DMA
	Sensor information	Display specific information of optocoupler and Hall
	Hardware version	Display hardware version number
	Software version	Display software version number

Screen automatic rotation function

The system can automatically rotate the screen according to the direction of gravity, without the need for manual rotation. The automatic rotation function can also be turned off.

Manual control

This interface is used to control the current lighting fixture. Press the "OK" button to enter the editing status. Press the "Up" and "Down" keys to change the channel value. Press' OK 'again to save the modified values and exit editing. Press' Exit' to exit editing without saving the modified values.

System calibration

Set up a layer of passwords here to prevent unprofessional personnel from misoperating. Press the "OK" button to verify the password.

Option	Description
Initial position calibration	After the initial position calibration enters the sub interface, the reset positions of the X-axis, Y-axis, and other motors can be adjusted to compensate for hardware installation errors. The adjustment range of 0-255127 indicates no adjustment.
White balance calibration	Adjustable light bead white balance, with an adjustment range of 0-255, 255 indicating no adjustment
Power Calibration	Adjustable lamp bead power, with an adjustment range of 0-255, 255 indicating no adjustment

Reset

Press the "Up" and "Down" keys to switch the reset mode, and press "OK" to directly reset.

Option	Description
Head	Effect reset except for XY
XY	Only XY reset
All	Whole light reset

System information

Option	Description
Reset error info	If the red ERR indicator light is on, it indicates that the lamp is operating incorrectly. Detailed information can be viewed from this sub interface.
DMX Data detection	From here, enter the sub interface and display the channel values in numerical form for viewing
Sensor information	Real time monitoring of various photoelectric switches, Hall and other sensor states on the lamp
Hardware version	Hardware information of lighting fixtures
Software version	Software information of lighting fixtures

4. DMX CHANNEL TABLE

DMX 512   17CHs

Channel	Function	Value	Effect
1	Pan	0-255	0-540°
2	Tilt	0-255	0-270°
3	Pan Fine	0-255	0-2°
4	Tilt Fine	0-255	0-2°
5	Pan/Tilt Speed	0-255	From fast to slow
6	Dimmer	0-255	0-100& linear dimmer
7	Strobe	0-3	Close
		4-99	Synchronize strobe
		100-149	Pulse strobe
		150-199	Sharp flash

		200-250	Random strobe
		251-255	Open
8	Color	0-13	White
		14-19	Color 1
		20-25	Color 2
		26-31	Color 3
		32-37	Color 4
		38-43	Color 5
		44-49	Color 6
		50-55	Color 7
		56-61	Color 8
		62-67	Color 9
		68-73	White + Color1
		74-79	Color1 + Color2
		80-85	Color2 + Color3
		86-91	Color 3+ Color 4
		92-97	Color 4+ Color 5
		98-103	Color 5+ Color 6
		104-109	Color 6+ Color 7
		110-115	Color 7+ Color 8
		116-121	Color 8+ Color 9
		122-127	Color 9 + White
		128-189	Anticlockwise running fast to slow
		190-193	Stop move
		194-255	Clockwise running slow to fast
		0-13	White

9	Fixed Gobo	14-24	Gobo 1
		25-35	Gobo 2
		36-46	Gobo 3
		47-57	Gobo 4
		58-68	Gobo 5
		69-79	Gobo 6
		80-90	Gobo 7
		91-101	Gobo 8
		102-112	Gobo 1 shake
		113-123	Gobo 2 shake
		124-134	Gobo 3 shake
		135-145	Gobo 4 shake
		146-156	Gobo 5 shake
		157-167	Gobo 6 shake
		168-178	Gobo 7 shake
		179-189	Gobo 8 shake
		190-221	Anticlockwise running fast to slow
		222-223	Stop move
		224-255	Clockwise running slow to fast
		0-14	White
		15-29	Gobo 1
		30-44	Gobo 2
		45-59	Gobo 3
		60-74	Gobo 4
		75-89	Gobo 5
		90-104	Gobo 6

		105-119	Gobo 7
10	Rotate Gobo	120-129	Gobo 1 shake
		130-139	Gobo 2 shake
		140-149	Gobo 3 shake
		150-159	Gobo 4 shake
		160-169	Gobo 5 shake
		170-179	Gobo 6 shake
		180-189	Gobo 7 shake
		190-221	Anticlockwise running fast to slow
		222-223	Stop move
		224-255	Clockwise running slow to fast
11	Rotate Gobo Rotation	0-127	Degree adjust
		128-190	Anticlockwise running fast to slow
		191-192	Stop
		193-255	Clockwise running slow to fast
12	Frost	0-127	None
		128-255	Frost
13	Prism	0-127	None
		128-255	Prism
14	Prism Rotation	0-127	Degree adjust
		128-190	Anticlockwise running fast to slow
		191-192	Stop
		193-255	Clockwise running slow to fast
15	Focus	0-255	Focus from 0-100%
16	Zoom	0-255	Linear zoom
		0-199	None

17	Reset	0-199	None
		200-205	All motors reset
		206-255	None

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.

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.