BSW 380w 3in1 Moving Head Light
User Manual

This manual contains important information. Please read before operating fixture.

TABLE OF CONTENTS

1. GETTING STARTED

What's In The Box?

- 1 x BSW 380 light
- 1 x AC Power Cord
- 1 x Signal Cord
- 2 x Omega Bracket
- This Lovely User Manual

Getting It Out Of the Box

Congratulations on purchasing the BSW 380, the ultra-bright Beam wall wash fixture. Now that you've got your BSW 380, you should carefully unpack the box and check the contents to ensure that all parts are present and in good condition. If anything looks as if it has been damaged in transit, notify the shipper immediately and keep the packing material for inspection. Again, please save the carton and all packing materials.

Powering Up!

All fixtures must be powered directly off a switched circuit and cannot be run off a rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer channel is used solely for a 0% to 100% switch.

Warning! All fixtures must be connected to circuits with a suitable Ground (Earthing).

Getting A Hold Of Us

If something happens goes wrong, please feel free to contact me.We'll be happy to help, honest.
Disclaimer: The information and specifications contained in this document are subject to change without notice. We assumes no responsibility or liability for any errors or omissions that may appear in this user manual.We reserves the right to update the existing document or to create a new document to correct any errors or omissions at any time.

Safety Instructions

Please read these instructions carefully. They include
important information about the installation, usage and
maintenance of this product.

•Please keep this User Guide for future use. If you sell the unit to someone else, be sure that they also receive this User Guide.

• ALWAYS make sure that you are connecting to the proper voltage, and that the line voltage you are connecting to is not higher than that stated on the decal or rear panel of the fixture.

• Make sure there are no flammable materials close to the unit while operating.

•It is recommended that the continuous working time of the lamp should not exceed 10 hours, and the interval between continuous starting of the lamp should not be less than 10 minutes, otherwise
The bulb will not trigger properly due to overheating protection.

• The unit must be installed in a location with adequate ventilation, at least 20in (50cm) from adjacent surfaces. Be sure that no ventilation slots are blocked.

• ALWAYS disconnect from the power source before servicing.

• ALWAYS secure mounted fixtures with a safety cable. NEVER carry the fixture by its head. Use its carrying handles.

• DO NOT operate at ambient temperatures higher than 104°F (40°C).

• In the event of a 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.

• NEVER connect the device to a dimmer pack.

• Make sure the power cord is never crimped or damaged.

• Never disconnect the power cord by pulling or tugging on the cord.

• Avoid direct eye exposure to the light source while it is on.

Caution! There are no user serviceable parts inside the unit. Do not open the housing or attempt any repairs yourself.

2. MEET THE BSW 380

Main Features

•Power supply ： 100-240V 50/60Hz
•Power : 450W
•Lamp source: 380W lamp
•Color temperature (white light) : 7100K
•CRI:71
•Zoom Angle: 2.5° -50 °
•Frost: independent frost effect
•Pan : 540° , 16 bit
•Tilt : 270° , 16 bit
•0-100% linear electronic dimmer
•Strobe:0-20Hz
•Colors   wheel:9 color+blank
•Gobo 1 wheel: 7 gobos+blank
•Gobo 2 wheel:6 gobos+4 blank
•Prism: prism 1: 3 prism rotation, prism 2: 6 Prism rotation, 2prism can overlap
•Power Con In and Out
•Net Weight : 15.7KG
•Size:325*249*578mm

Control

• Protocol: DMX-512
• DMX channels: 16/24CH
• 3-pin XLR DMX input/output
• Easy-to-use 4-button control panel with LCD display
• Operating modes: DMX512, master/slave, auto,sound

Product size
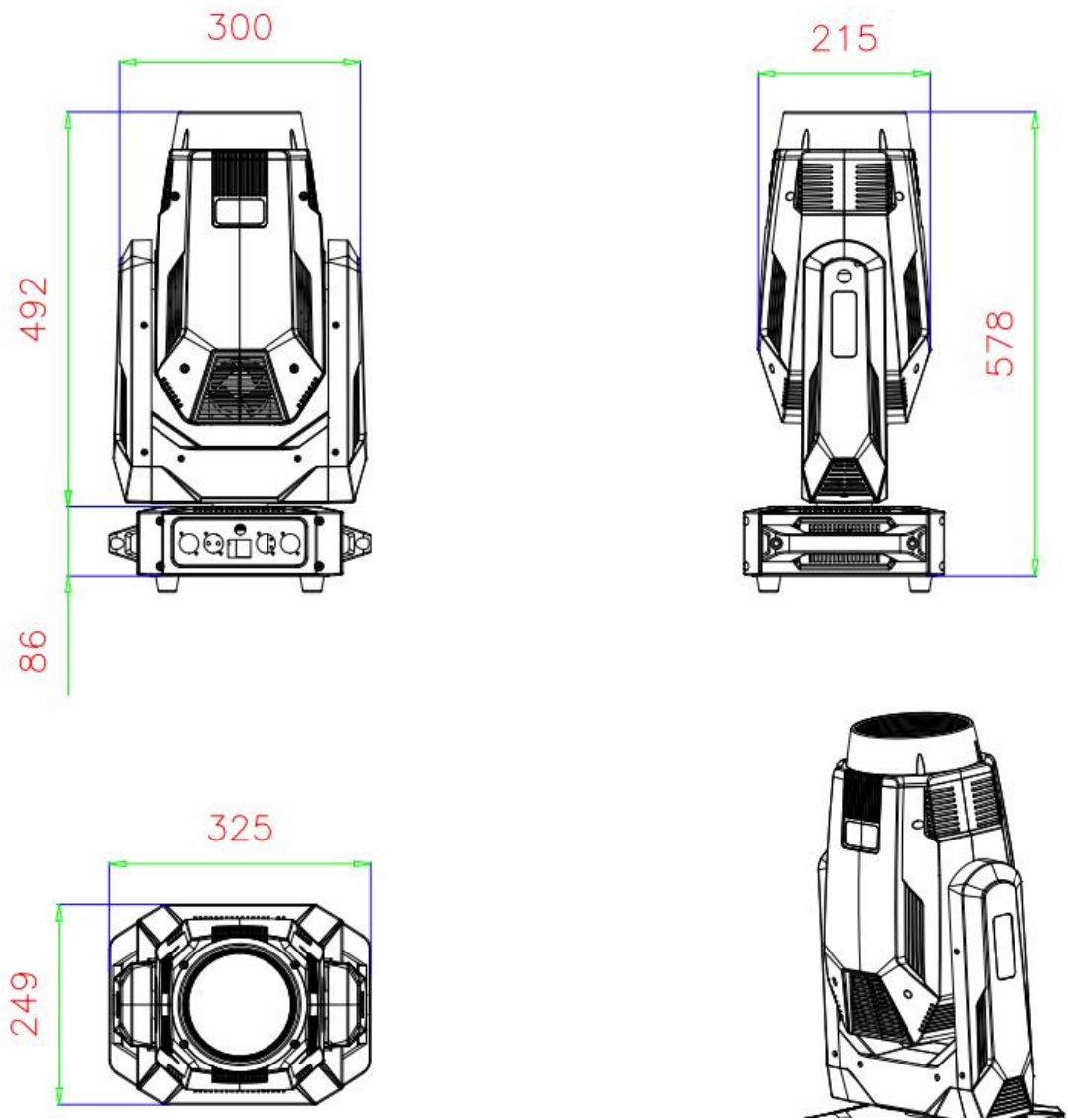
DMX Quick Reference

16ch

CH	Channel	DMX value	Description
1	Pan	0-255	0-540 degrees
2	Tilt	0-255	0-270 degrees

3	Pan/Tilt speed	0-255	From fast to slow
4	Reset		
		0-99	N
		100-105	Turn off the bulb in 3 seconds
		106-199	N
		200-205	Turn on the bulb in 3 seconds
		206-209	N
		210-215	Reset XY motor after 3 seconds
		216-219	N
		220-235	Reset the effect motor after 3 seconds
		236-239	N
		240-255	Reset the fixture in 3 seconds
5	Color wheel	0-129	Linear Color
		130-134	Color 1
		135-138	Color 2
		139-143	Color 3
		144-147	Color 4
		148-152	Color 5
		153-157	Color 6
		158-161	Color 7
		162-166	Color 8
		167-171	Color 9
		172-210	From fast to slow clockwise rotating
		211-215	Stop
		216-255	From slow to fast counterclockwise rotating
6	Gobo wheel	0-4	Gobo 1
		5-9	Gobo 2
		10-14	Gobo 3
		15-19	Gobo 4
		20-24	Gobo 5
		25-29	Gobo 6
		30-34	Gobo 7
		35-39	Gobo 8
		40-44	Gobo 9
		45-49	White
		50-54	Jitter from slow to fast gobo1
		55-59	Jitter from slow to fast gobo2
		60-64	Jitter from slow to fast gobo3

		65-69	Jitter from slow to fast gobo4
		70-74	Jitter from slow to fast gobo5
		75-79	Jitter from slow to fast gobo6
		80-84	Jitter from slow to fast gobo7
		85-89	Jitter from slow to fast gobo8
		90-94	Jitter from slow to fast gobo9
		95-177	From fast to slow clockwise rotating
		178-180	Stop
		181-255	From slow to fast counterclockwise rotating
7	Rotating Gobo wheel	0-7	White
		8-15	Gobo 1
		16-23	Gobo 2
		24-31	Gobo 3
		32-39	Gobo 4
		40-47	Gobo 5
		48-55	Gobo 6
		56-63	Gobo 7
		64-71	Jitter from slow to fast gobo1
		72-79	Jitter from slow to fast gobo2
		80-87	Jitter from slow to fast gobo3
		88-95	Jitter from slow to fast gobo4
		96-103	Jitter from slow to fast gobo5
		104-111	Jitter from slow to fast gobo6
		112-119	Jitter from slow to fast gobo7
		120-185	From fast to slow clockwise rotating
		186-189	Stop
		190-255	From slow to fast counterclockwise rotating
8	Gobo wheel rotating	0-127	0-360 degrees
		128-190	From fast to slow clockwise rotating
		191-192	Stop
		193-255	From slow to fast counterclockwise rotating
9	Prism	0-63	N
		64-127	Prism 1
		128-191	Prism 2
		192-255	Prism 1+Prism 2
10	Prism 1 rotation	0-127	0-360 degrees
		128-187	From fast to slow clockwise

			rotating
		188-195	Stop
		196-255	From slow to fast counterclockwise rotating
11	Prism 2 rotation	0-127	0-360 degrees
		128-187	From fast to slow clockwise rotating
		188-195	Stop
		196-255	From slow to fast counterclockwise rotating
12	Frost	0-127	N
		128-255	Frost
13	Zoom	0-255	From Big to Small
14	Focus	0-255	
15	Strobe	0-3	OFF
		4-103	From slow to fast pulse strobe
		104-107	OFF
		108-207	From slow to fast gradient strobe
		208-212	OFF
		213-251	From slow to fast random strobe
		252-255	OFF
16	Dimmer	000-025	0-100% dimmer

24CH

CH	Channel	DMX value	Description
1	Pan	0-255	0-540 degrees
2	Pan fine	0-255	0-2 degrees
3	Tilt	0-255	0-270 degrees
4	Tilt fine	0-255	0-1 degrees
5	Pan/Tilt speed	0-255	From fast to slow

6	Reset		
		0-99	N
		100-105	Turn off the bulb in 3 seconds
		106-199	N
		200-205	Turn on the bulb in 3 seconds
		206-209	N
		210-215	Reset XY motor after 3 seconds
		216-219	N
		220-235	Reset the effect motor after 3 seconds
		236-239	N
		240-255	Reset the fixture in 3 seconds
7	Color wheel	0-129	Linear Color
		130-134	Color 1
		135-138	Color 2
		139-143	Color 3
		144-147	Color 4
		148-152	Color 5
		153-157	Color 6
		158-161	Color 7
		162-166	Color 8
		167-171	Color 9
		172-210	From fast to slow clockwise rotating
		211-215	Stop
		216-255	From slow to fast counterclockwise rotating
8	Color wheel fine	0-255	
9	Gobo wheel	0-4	Gobo 1
		5-9	Gobo 2
		10-14	Gobo 3
		15-19	Gobo 4
		20-24	Gobo 5
		25-29	Gobo 6
		30-34	Gobo 7
		35-39	Gobo 8
		40-44	Gobo 9
		45-49	White
		50-54	Jitter from slow to fast gobo1
		55-59	Jitter from slow to fast gobo2
		60-64	Jitter from slow to fast gobo3

		65-69	Jitter from slow to fast gobo4
		70-74	Jitter from slow to fast gobo5
		75-79	Jitter from slow to fast gobo6
		80-84	Jitter from slow to fast gobo7
		85-89	Jitter from slow to fast gobo8
		90-94	Jitter from slow to fast gobo9
		95-177	From fast to slow clockwise rotating
		178-180	Stop
		181-255	From slow to fast counterclockwise rotating
10	Rotating Gobo wheel	0-7	White
		8-15	Gobo 1
		16-23	Gobo 2
		24-31	Gobo 3
		32-39	Gobo 4
		40-47	Gobo 5
		48-55	Gobo 6
		56-63	Gobo 7
		64-71	Jitter from slow to fast gobo1
		72-79	Jitter from slow to fast gobo2
		80-87	Jitter from slow to fast gobo3
		88-95	Jitter from slow to fast gobo4
		96-103	Jitter from slow to fast gobo5
		104-111	Jitter from slow to fast gobo6
		112-119	Jitter from slow to fast gobo7
		120-185	From fast to slow clockwise rotating
		186-189	Stop
		190-255	From slow to fast counterclockwise rotating
11	Gobo wheel rotating	0-127	0-360 degrees
		128-190	From fast to slow clockwise rotating
		191-192	Stop
		193-255	From slow to fast counterclockwise rotating
12	Gobo wheel fine	0-255	
13	Prism	0-63	N
		64-127	Prism 1
		128-191	Prism 2
		192-255	Prism 1+Prism 2

14	Prism 1 rotation	0-127	0-360 degrees
		128-187	From fast to slow clockwise rotating
		188-195	Stop
		196-255	From slow to fast counterclockwise rotating
15	Prism 2 rotation	0-127	0-360 degrees
		128-187	From fast to slow clockwise rotating
		188-195	Stop
		196-255	From slow to fast counterclockwise rotating
16	Frost	0-127	N
		128-255	Frost
17	Zoom	0-255	From Big to Small
18	Zoom fine	0-255	
19	Focus	0-255	
20	Focus fine	0-255	
21	Effects		
22	Strobe	0-3	OFF
		4-103	From slow to fast pulse strobe
		104-107	OFF
		108-207	From slow to fast gradient strobe
		208-212	OFF
		213-251	From slow to fast random strobe
		252-255	OFF
23	Dimmer	000-025	0-100% dimmer
24	Dimmer fine	0-255	

3. SETUP

Before replacing a fuse, disconnect the power cord.
ALWAYS replace with the same type and rating of fuse.

Fuse Replacement

The BSW 380 utilizes a high-output switch-mode power supply with an internal fuse. Under normal operating conditions, the fuse should not require replacement. The fuse is field replaceable, however it is an advanced procedure suited to qualified individuals. Should the fuse require replacement, please contact we for instructions.

Connecting A Bunch of BSW 380 Fixtures

You will need a serial data link to run light shows using a DMX-512 controller or to run shows on two or more fixtures set to sync in master/slave operating mode. The combined number of channels required by all the fixtures on a serial data link determines the number of fixtures the data link can support.

Fixtures on a serial data link must be daisy chained in one single line. Also, connecting more than 8 fixtures on one serial data link without the use of a DMX optically-isolated splitter may result in deterioration of the digital DMX signal. The maximum recommended cable-run distance is 500 meters (1640 ft). The maximum recommended number of fixtures on a serial data link is 8 fixtures.

Data/DMX Cabling

To link fixtures together you'll need data cables. You should use data-grade Cables that can carry a high quality signal and are less prone to electromagnetic interference.

In any event,the cable should have the following characteristics:
- •2-conductor twisted pair plus a shield
- •Maximum capacitance between conductors – 30 pF/ft.
- •Maximum capacitance between conductor & shield – 55 pF/ft.
- •Maximum resistance of 20 ohms / 1000 ft.
- •Nominal impedance 100 – 140 ohms

Cable Connectors

Cables must have a male XLR connector on one end and a female XLR connector on the other end. (Duh!)
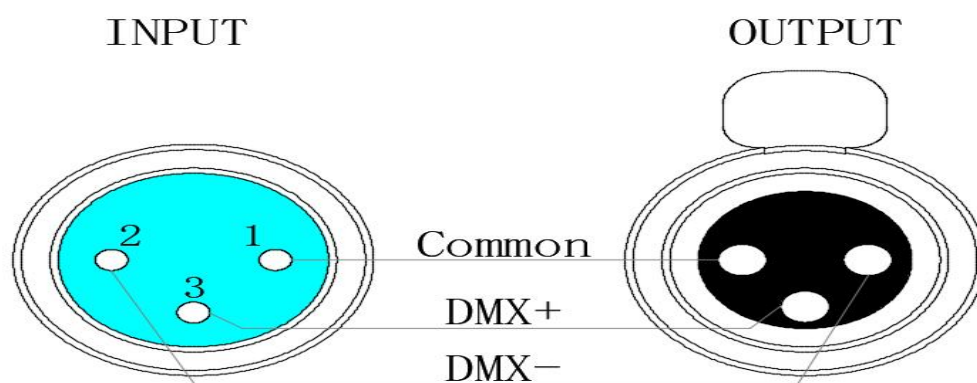
CAUTION: Do not allow contact between the common and the fixture's chassis ground. Grounding the common can cause a ground loop, and your fixture may perform erratically. Test cables with an ohm meter to verify correct polarity and to make sure the pins are not grounded or shorted to the shield or each other.

Take It To The Next Level: Setting Up DMX Control

Step 1: Connect the male connector of the DMX cable to the female connector (output) on the controller.

Step 2: Connect the female connector of the DMX cable to the first fixture's male connector(input).

Note: It doesn't matter which fixture address is the first one connected. We recommend connecting the fixtures in terms of their proximity to the controller, rather than connecting the lowest fixture number first, and so on.

Step 3: Connect other fixtures in the chain from output to input as above. Place a DMX terminator on the output of the final fixture to ensure best communication.
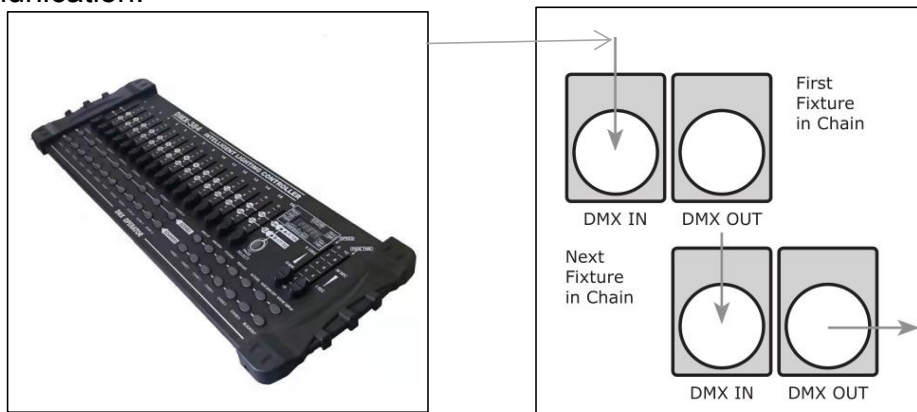
Fixture Linking (M/S Mode)

1. Connect the male connector side of the DMX cable to the output female connector of the first fixture.

2. Connect the end of the cable coming from the first fixture which will have a female connector to the input connector of the next fixture consisting of a male connector. Then, proceed to connect from the output as stated above to the input of the following fixture and so on.
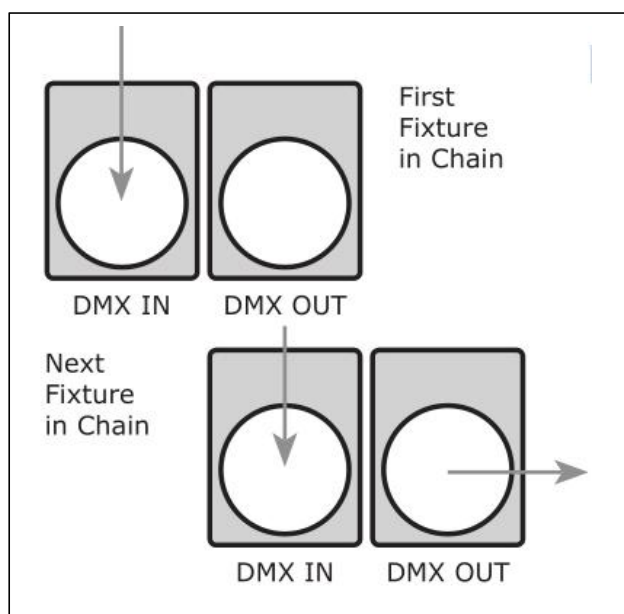
A quick note: Often, the setup for Master-Slave and Standalone operation requires that the first fixture in the chain be initialized for this purpose via either settings in the control panel or DIP-switches. Secondarily ,the fixtures that follow may also require a slave setting.

Check the "**Operating Adjustments**" section in this manual for complete instructions for this type of setup and configuration.

Mounting & Rigging

This fixture may be mounted in any SAFE position provided there is enough room for ventilation. The fan or vents pathway must never obstructed.

A mounting bracket assembly is provided that secures the bottom of the base, the Omega bracket, and the safety cable rigging point together. When mounting to truss, be sure to secure an appropriately rated clamp to the omega bracket.

IMPORTANT: Regardless of the rigging option you choose for your fixtures, always be sure to secure your fixture with a safety cable.
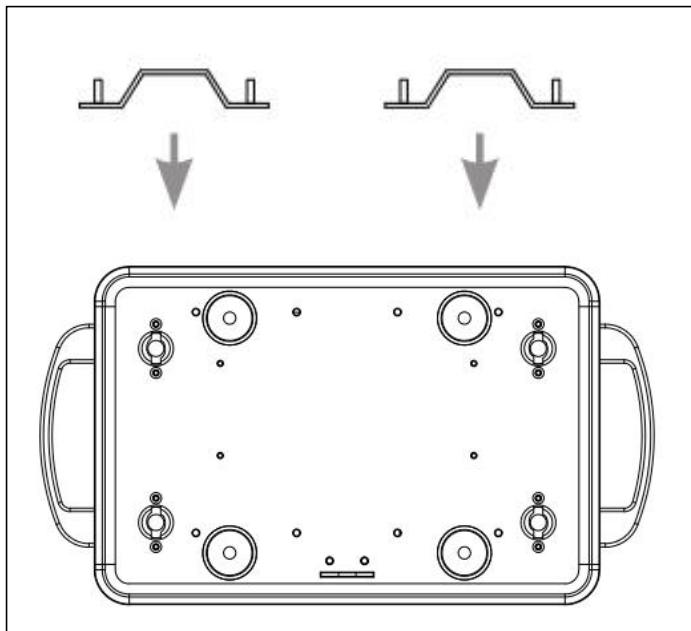
Attach the 2x ¼-turn quick lock Omega brackets to the base, and the clamps to the brackets.

Lamp hook   Safy rope
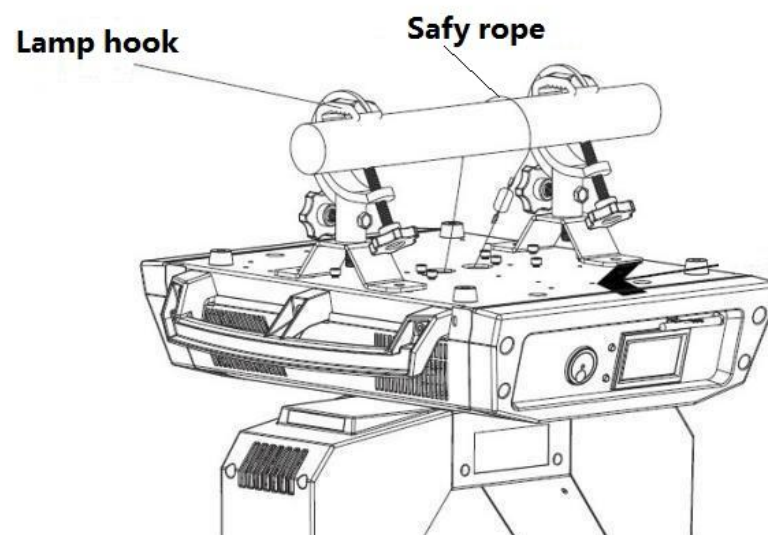
Mount the fixture using a suitable "C" or "O" type clamps. The clamps should be rated to hold at least 10x the fixture's weight to ensure structural stability. Do not mount to surfaces of unknown strength, and ensure properly rated rigging is used when mounting fixtures overhead.

Overhead mounting requires extensive experience, which includes calculating working load limits, knowledge of the installation material being used, and periodic safety inspections. If you lack these qualifications, do not attempt the installation yourself. Improper installation can result in bodily injury.

4. OPERATING ADJUSTMENTS

The Control Panel

All of the features and different modes possible with this fixture are accessed by using the control panel on the front of the fixture. There are 4 control buttons next to the LED display which allow you to navigate through the various control panel menus.
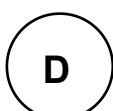
(M) **<MENU>**
Is used to navigate to the previous higher-level menu item.

(U) **<UP>**
Scrolls through menu items and numbers in ascending order.

(D) **<DOWN>**
Scrolls through menu items and numbers in descending order.
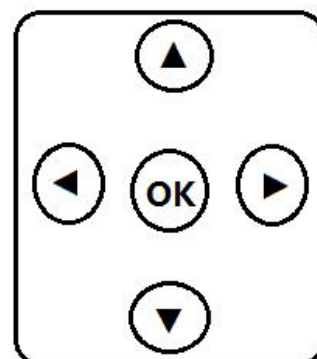
(E) **<ENTER>**
Is used to navigate to the previous higher-level menu item.
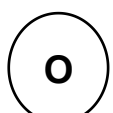
(O) **<OK>**
Execute the function, start editing, exit editing

Pressing any button from the home screen will show the selectable menu items from the menu map on page #18. When a menu function is selected, the display will immediately show the first available option for the selected menu function. To select a menu item, press **<OK>**.

Use the **<UP>** and **<DOWN>** buttons to navigate the menu options. Press the

<OK> button to select the menu function currently displayed, or to enable a menu option. To return to the previous option or menu without changing the value, press the **<MENU>** button.

Control Panel Menu Structure

DMX Address	1-512	Press the "OK" button to enter the edit state, the initial address code is 001, press the "Up" or "down" key to change the location Address code. Press the "OK" key to exit the editing state.
MODE	DMX Control	
	Auto Run	
	Sound Control	
	Scene Mode	Auto/Mode1~Mode10
	M/S Choose	Master/Auto/Slave
	Light Switch	ON/OFF
DISP	Language	English
		Chinese
	Screen saver	OFF/Mode1~Mode4
	Screen Rot	Forward/Reverse
	DMX Indicate	Mode1~Mode3
	Screen Light	001-010
SCEME	Scene Select	1-10
	Screen Time	0-25.5s
	Control Mode	ON/OFF
	01.Pan	0-255
	02.Tilt	0-255
	03.P/T Spd	0-255
	04.Reset	0-255
	05.Colour	0-255
	06.Gobo	0-255
	07.Rot Gobo	0-255
	08.Gobo Rot	0-255
	09.Prism 1	0-255
	10.Prism 1 R	0-255
	11.Prism 2 R	0-255
	12.Frost	0-255
	13.Zoom	0-255
	14.Focus	0-255
	15.Strobe	0-255

	16.Dimmer	0-255
ADUA	Pan Invert	OFF/ON
	Tilt Invert	OFF/ON
	P/T Rectify	OFF/ON
	Pan offset	0-150
	Tilt offset	0-150
	Data Hold	OFF/ON
	Screen Time	0-255
	Lamp When	Power ON/Manual/RstDone
	Factory Setting	
STAT	Stepper info	
	Error Logging	
	Fixture Status	
	Version	C8.1.0
	Light Time	
	Total Time	
	Serial Number	

DMX Mode

Allows the unit to be controlled by any universal DMX controller.

Starting DMX Address
1.) Navigate the main menu until you reach DMX, and press the **<OK>** button.
2.) Then highlight Address, and press **<OK>**.
3.) Use the **<UP/DOWN>** buttons to select a starting DMX address ranging from 001-512, and press the **<OK>** button to confirm.

Mode

Mode
1.) Navigate the main menu until you reach MODE, and press the **<OK** button.
2.) Use the **<UP/DOWN>** buttons to highlight **DMX512,Auto, Sound,Scene** and press the <OK> button.
3.) To stop an **Auto** or **Sound** program, use the **<UP/DOWN>** buttons to highlight **DMX512**, and press **<OK>**.

5. APPENDIX

Keeping Your BSW 380 As Good As New

The fixture you've received is a rugged, tough piece of pro lighting equipment, and as long as you take care of it, it will take care of you. That said, you'll need to take care of it if you want it to operate as designed. You should keep the fixture clean, especially if you are using it in an environment with a lot of dust, fog, haze, wild animals, wild teenagers or spilled drinks.

Cleaning the optics routinely with a suitable glass cleaner will greatly improve the quality of light output. Keeping the fans free of dust and debris will keep the fixture running cool and prevent damage from overheating.

In transit, keep the fixtures in cases. You wouldn't throw a prized guitar, or other piece of expensive gear into a gear trailer without a case, and similarly, you shouldn't even think about doing it with your shiny new light fixtures.

Common sense and taking care of your fixtures will be the single biggest thing you can do to keep them running at peak performance and let you worry about designing a great light show, putting on a great concert, or maximizing your client's satisfaction and "wow factor." That's what it's all about, after all!

Shipping Issues

Damage incurred in shipping is the responsibility of the shipper, and must be reported to the carrier immediately upon receipt of the items. Claims must be made within seven (7) days of receipt.

Tech Specs

Power	
Operating Voltage	100-240V 50/60Hz
Power Consumption	450w
Light Source	
lamp	380w
Optical	
Beam angle	2.5-50°
Movement Range	
Pan	540° , 16 bit

Tilt	270° , 16 bit
Thermal	
Maximum ambient temp	40 °C(104℉)
Maximum surface temp	90 °C(194℉)
Minimum operating temp	20 °C(68℉)
Control	
Protocol	DMX-512
DMX Channels	16/24CH
Input/Output	3-pin XLR male/female
Other Operating Modes	DMX 512, Auto, Master-slave, Sound
Warranty	2-year limited warranty, does not cover malfunction caused by damage to LAMP.

Enjoy your product!

Our sincerest thanks for your purchase!