380W Beam/Spot/Wash 3in1 Moving Head Light
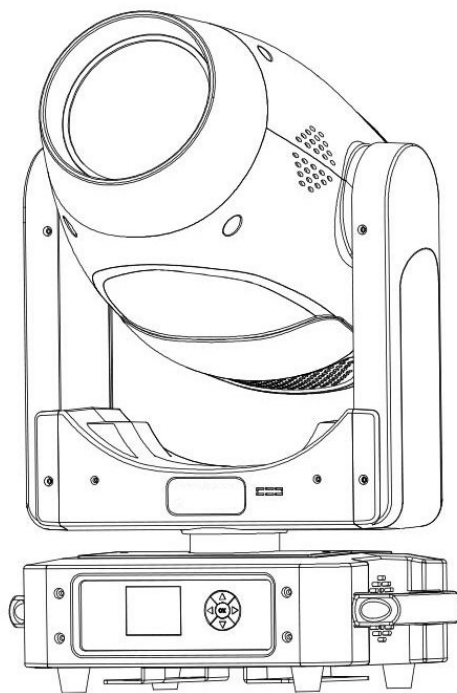
Instruction Manual

------------------------------- **2022** Ver1.20220623 -------------------------------

Unpacking: Thank you for purchasing BSW380,Every unit has been thoroughly tested and has been shipped in perfect operating condition. Carefully check the shipping carton for damage that may have occurred during shipping. If the carton appears to be damaged, carefully inspect your fixture for any damage and be sure all accessories necessary to operate the unit has arrived intact. In the case damage has been found or parts are missing, please contact the manufacturer or your dealer for further instructions. Do not return this unit to your dealer without first contacting.

FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY BEFORE POWERING OR INSTALLING BSW380. SAVE IT FOR FUTURE REFERENCE.

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

PLEASE consider that damages caused by manual modifications to the device are not subject to warranty.

Caution! There are no user serviceable parts inside this unit. Do not attempt any repairs yourself; doing so will void your manufactures warranty. In the unlikely event your unit may require service please contact the manufacturer or your dealer.

PLEASE recycle the shipping carton when ever possible.

General Instructions: To optimize the performance of this product, please read these operating instructions carefully to familiarize you with the basic operations of this unit. These instructions contain important safety information regarding the use and maintenance of this unit.

Features

- Multi Colors +goboes
- Color strobe
- Electronic Dimming 0-100%
- DMX-512 protocol
- Master/Slave synchronization
- LCD operation menu with function buttons
- Daisy Chain Units Together in DMX Mode

Safety Precautions

- To reduce the risk of electrical shock or fire, do not expose this unit to rain or moisture.
- Do not spill water or other liquids into or on to your unit.
- Be sure that the local power outlet matches that of the required voltage for your unit.
- Do not attempt to operate this unit if the power cord has been frayed or broken. Do not attempt to remove or break off the ground prong from the electrical cord. This prong is used to reduce the risk of electrical shock and fire in case of an internal short.
- Disconnect from main power before making any type of connection.
- Do not remove the cover under any conditions. There are no user serviceable parts inside.

- Never operate this unit when it's cover is removed.
- Never plug this unit in to a dimmer pack.
- Always be sure to mount this unit in an area that will allow proper ventilation. Allow about 6" (15cm) between this device and a wall.
- Do not attempt to operate this unit, if it becomes damaged.
- This unit is intended for indoor use only; use of this product outdoors voids all warranties.
- During long periods of non-use, disconnect the unit's main power.
- Always mount this unit in safe and stable matter.
- Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to the point they exit from the unit.
- Cleaning -The fixture should be cleaned only as recommended by the manufacturer. See "Cleaning" for details.
- Heat -The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
- The fixture should be serviced by qualified service personnel when:

- A. The power-supply cord or the plug has been damaged.

- B. Objects have fallen, or liquid has been spilled into the appliance.

- C. The appliance has been exposed to rain or water.

- D. The appliance does not appear to operate normally or exhibits a marked change in performance.

Technical Specifications

Electrical
Power supply:…………………electronic auto-ranging
Input voltage range:……………supply 90-250V, 50/60Hz
Fuse:………………………… 5 A@220V
Power consumption:……………450W@230V

Optic
Light source: Osram 371W lamp* 1piece
Lifespan: 1500 hours
Dimmer: Smooth dimmer from 0-100%
Fixed gobo wheel: 11 Gobos+Open
Rotating gobo wheel: 7gobos+Open
Animation dish: 4 gobos+ fire effect
Color Wheel: 13 colors+White
Two prism wheels: 8-facet prism+16 prism
2-40deg electronic zoom
Focus+Frost
Beam+Spot+Wash

Motorized
Pan/Tilt
Pan movement range: 540°

Tilt movement range: 270°

16 bit movement resolution

Automatic Pan/Tilt position correction

Pan movement 0°-540°at max…….Speed: 2.2 sec.

Tilt movement 0°-270°at max…….. Speed: 1.2 sec.

LCD operation

Built-in demo sequences

Silent fans cooling

Strong three-phase motors

Stand-alone operation

Supported protocols: DMX512

2 DMX modes (20/25 control channels)

Connection

DMX data in/out: Locking 3-pin and 5-pin XLR

AC power input: 1.5m power cord with plug

Rigging

Mounting points: 2 pairs of 1/4-turn locks

Mounting horizontally or vertically via 2 Omega brackets

Temperatures

Maximum ambient temperature: 45℃

Maximum housing temperature: 75℃

Minimum distances

Min. distance from flammable surfaces: 3.0m

Min. distance to lighted object: 2.0m

Total heat dissipation: 1200 BTU/h (calculated)

Net dimension: 393(L) x 260(W) x 668(H) mm

Weight (net): 24.5kgs

Warranty: 1 Year   …………………………

Set Up:

Power Supply: Before plugging your unit in, be sure the source voltage in your area matches the required voltage for your BSW380, The model is Auto power supply, It is workable in 90-250V/50~60Hz. Please make sure your unit voltage matches the wall outlet voltage before attempting to operate you fixture.

Connection to the mains

For protection from electric shock, the fixture must be earthed!

Install a suitable plug on the power cord, note that the cores in the power cord are colored according to the following table. The earth has to be connected!

If you have any doubts about proper installation, consult a qualified electrician.

Core **(EU)**	Core (US)	Connection	Plug Terminal Marking

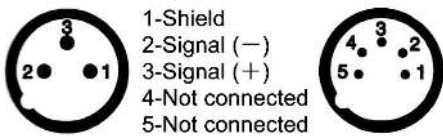| Brown	Black	Live	L
Light blue	White	Neutral	N
Yellow/Green	Green	Earth	⏚

DMX512 connection

The fixture is equipped with 3-pin or 5-pin XLR sockets for DMX input and output. The sockets are wired in parallel.

Only use a shielded twisted-pair cable designed for RS-485 and 3-pin or 5-pin XLR-plugs and connectors in order to connect the controller with the fixture or one fixture with another.
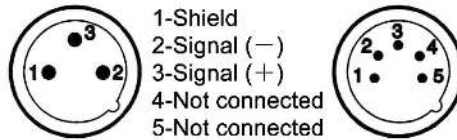
DMX-output   DMX-input
XLR mounting-sockets (rear view):   XLR mounting-plugs (rear view):

DMX Linking: To ensure proper DMX data transmission, when using several DMX fixtures try to use the shortest cable path possible. The order in which fixtures are connected in a DMX line does not influence the DMX addressing. For example; a fixture assigned a DMX address of 1 may be placed anywhere in a DMX line, at the beginning, at the end, or anywhere in the middle. When a fixture is assigned a DMX address of 1, the DMX controller knows to send DATA assigned to address 1 to that unit, no matter where it is located in the DMX chain.

Operating Modes: You can use the BSW380 in 3 ways:

● Auto Mode - The unit will automatically chase through the different colors and built-in programs.
● Slave Mode – The unit will run under slave mode.
● DMX control mode - This function will allow you to control each individual fixtures traits with a standard DMX 512 controller.

DMX Mode: Operating through a DMX controller give the user the freedom to create their own programs tailored to their own individual needs. This function also allows you to use your fixtures as spot lights.

1. This function will allow you to control each individual fixture's traits with a standard DMX 512 controller.
2. The BSW380 uses 20/25 DMX channels modes to operate. Please see "DMX Values and Functions" for the DMX traits.
3. To run your fixture in DMX mode, plug in the fixture via the XLR connections to any standard DMX controller. Set your desired DMX address following the setup specifications that come with your DMX controller.
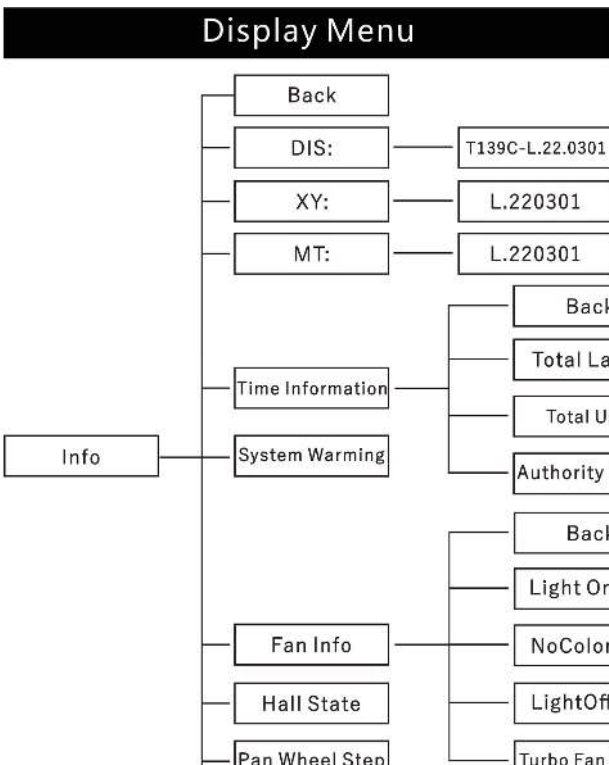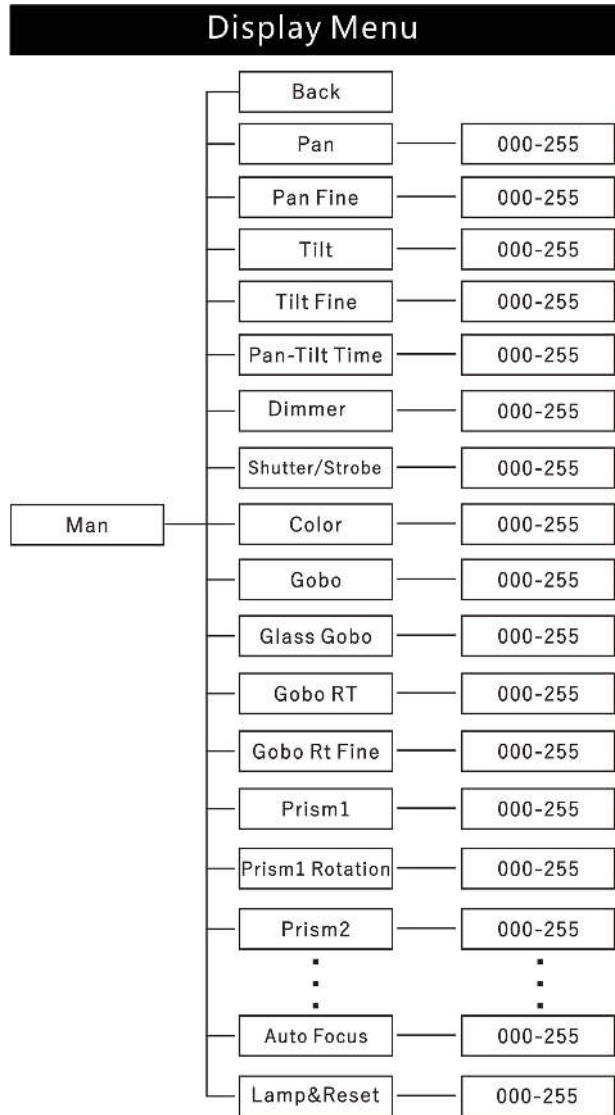
Touch Buttons: :
There are Five touch buttons nearby the LCD display: Menu, Up, Down, Enter and

Invert, the LCD will display the current DMX address code of the fixture. At this time, presses up and down to choose the functions you want.

LCD Operation Menu: LCD screen with Five touch buttons**: MENU, UP, DOWN   ENTER and INVERT**

LCD display operation:

Display Menu

Setting		
	Back	
	Run Mode	DMX/Auto/Sound
	DMX Address	001-512
	Lamp	ON/OFF
	Device Reset	ON/OFF
	Channel Mode	20CH/25CH
	Language	English/Chinese
	Screen Rotation	ON/OFF
	Invert Pan	ON/OFF
	Invert Tilt	ON/OFF
	Pan-Tilt Swap	ON/OFF
	Pan-Tilt Encodel	ON/OFF
	DMX Signal	Clear/Keep
	Lamp Fan Low	ON/OFF
	Lamp On	ON/OFF
	Linear Color	ON/OFF
	Load Default	

Display Menu

Man		
	Back	
	Pan	000-255
	Pan Fine	000-255
	Tilt	000-255
	Tilt Fine	000-255
	Pan-Tilt Time	000-255
	Dimmer	000-255
	Shutter/Strobe	000-255
	Color	000-255
	Gobo	000-255
	Glass Gobo	000-255
	Gobo RT	000-255
	Gobo Rt Fine	000-255
	Prism1	000-255
	Prism1 Rotation	000-255
	Prism2	000-255
	⋮	⋮
	Auto Focus	000-255
	Lamp&Reset	000-255

Display Menu

Info		
	Back	
	DIS:	T139C-L.22.0301
	XY:	L.220301
	MT:	L.220301
	Time Information	Back
		Total Lamp
		Total User
	System Warming	Authority Hours
	Fan Info	Back
		Light On Set
		NoColor Set
	Hall State	LightOff Set
	Pan Wheel Step	Turbo Fan Speed

6

DMX Chart:

Mode/Channel		Value	Function	
25CH	**20CH**			
1	1	000-255	**Pan**	0-100%
2	2	000-255	**Pan fine**	0-100%
3	3	000-255	**Tilt**	0-100%
4	4	000-255	**Tilt fine**	0-100%
5	*	000-255	**Pan/Tilt Speed**	Fast -> Slow
6	5	000-255	**Dimmer**	0 -> 100%
7	6		**Strobe/Shutter**	
		248-255		Open
		132-247		Pulse:Slow -> Fast
		016-131		Strobe:Slow -> Fast
		000-015		Close
8	7		**Color Wheel**	
		219-255		Rotation(CCW):Slow -> Fast
		217-218		Stop
		180-216		Rotation(CW): Fast -> Slow
		176-179		Color13
		172-175		Color12
		168-171		Color11
		164-167		Color10
		160-163		Color9
		156-159		Color8
		152-155		Color7
		148-151		Color6
		144-147		Color5
		140-143		Color4
		136-139		Color3
		132-135		Color2
		128-131		Color1
		001-127		Color Index
		000		White

9	*		**Color Wheel fine**
		0-255	0 -> 100%
			Fixed Gobo
		221-255	Rotation(CCW): Slow -> Fast
		218-220	Stop
		183-217	Rotation(CW): Fast -> Slow
		175-182	Gobo11 Shake: Slow -> Fast
		167-174	Gobo10 Shake: Slow -> Fast
		159-166	Gobo9 Shake: Slow -> Fast
		151-158	Gobo8 Shake: Slow -> Fast
		143-150	Gobo7 Shake: Slow -> Fast
		135-142	Gobo6 Shake: Slow -> Fast
		127-134	Gobo5 Shake: Slow -> Fast
		119-126	Gobo4 Shake: Slow -> Fast
		111-118	Gobo3 Shake: Slow -> Fast
		103-110	Gobo2 Shake: Slow -> Fast
		095-102	Gobo1 Shake: Slow -> Fast
10	8	087-094	Gobo11
		079-086	Gobo10
		071-078	Gobo9
		063-070	Gobo8
		055-062	Gobo7
		047-054	Gobo6
		039-046	Gobo5
		031-038	Gobo4
		023-030	Gobo3
		015-022	Gobo2
		007-014	Gobo1
		000-006	Open

			Rotating Gobo
		204-255	Rotation(CCW): Slow -> Fast
		202-203	Stop
		150-201	Rotation(CW): Fast -> Slow
		140-149	Gobo7 Shake: Slow -> Fast
		130-139	Gobo6 Shake: Slow -> Fast
		120-129	Gobo5 Shake: Slow -> Fast
		110-119	Gobo4 Shake: Slow -> Fast
		100-109	Gobo3 Shake: Slow -> Fast
11	9	090-099	Gobo2 Shake: Slow -> Fast
		080-089	Gobo1 Shake: Slow -> Fast
		070-079	Gobo7
		060-069	Gobo6
		050-059	Gobo5
		040-049	Gobo4
		030-039	Gobo3
		020-029	Gobo2
		010-019	Gobo1
		000-009	Open
			Rotating Gobo Rotation
		193-255	Gobo Rotation(CCW): Slow -> Fast
12	10	128-192	Gobo Rotation(CW): Fast -> Slow
		000-127	Gobo Index
13	*		**Rotating Gobo Rotation Fine**
		000-255	0 -> 100%
			Animation disk
		090-255	Animation: Slow -> Fast
		080-089	Gobo4 Shake: Slow -> Fast
		070-079	Gobo3 Shake: Slow -> Fast
		060-069	Gobo2 Shake: Slow -> Fast
14	11	050-059	Gobo1 Shake: Slow -> Fast
		040-049	Gobo4
		030-039	Gobo3
		020-029	Gobo2
		010-019	Gobo1
		000-009	Open
			Prism1
15	12	128-255	Prism1
		0-127	Open
			Prism1 Rotation
		194-255	Prism Rotation(CCW): Slow -> Fast
16	13	190-193	Prism Static
		128-189	Prism Rotation(CW): Fast -> Slow
		000-127	Prism Index
			Prism2
17	14	128-255	Prism2
		000-127	Open

18	15		**Prism2 Rotation**	
		194-255	Prism Rotation(CCW): Slow -> Fast	
		190-193	Prism Static	
		128-189	Prism Rotation(CW): Fast -> Slow	
		000-127	Prism Position	
19	16		**Frost**	
		128-255	Frost	
		000-127	Open	
20	17		**Focus**	
		000-255	0 -> 100%	
21	*		**Focus Fine**	
		000-255	0 -> 100%r	
22	18		**Zoom**	
		000-255	0 -> 100%	
23	*		**Zoom Fine**	
		000-255	0 -> 100%	
24	19		**Auto Focus**	
		216-255	13m	
		176-215	11m	
		136-175	9m	
		096-135	7m	
		056-095	5m	
		016-055	3m	
		000-015	Safe	
25	20		**System Control**	
		201-255	All reset	
		161-200	Head reset	
		120-160	P/T Reset	
		100-119	Lamp Full Power	
		080-099	Lamp Half Power	
		060-079	Lamp Off	
		040-059	Lamp On	
		000-039	Unused	

Fixture dimension：393*260*668mm
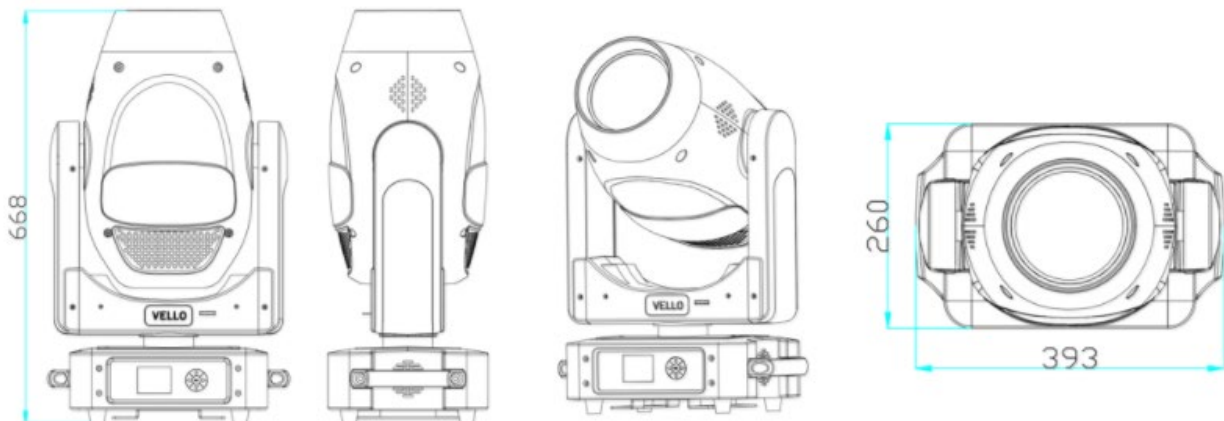
Caution: Fixture may cause severe injuries when crashing down! If you have doubts concerning the safety of a possible installation, do not install the moving head!

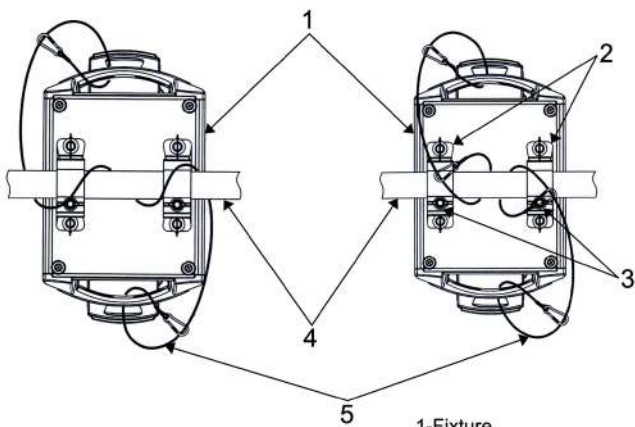Before rigging make sure that the installation area can hold a minimum point load of 10 times the fixture's weig

Whe inflammable material (decoration articles, etc.) in a dista

CAU

Use

Follo se.

Make the structure (truss) to which you are attaching the fixtur

1-Fixture
2-Omega holder
3-Clamp
4-Trust
5-Safety chain

Secu the fixture via two safety wires

Cleaning

Due to fog residue, smoke, and dust cleaning the internal and external optical lenses must be carried out periodically to optimize light output.

1. Use normal glass cleaner and a soft cloth to wipe down the outside casing.
2. Clean the external optics with glass cleaner and a soft cloth every 20 days.
3. Always be sure to dry all parts completely before plugging the unit back in.

Cleaning frequency depends on the environment in which the fixture operates (i.e. smoke, fog residue, dust, dew).

> **TROUBLE SHOOTING:** *Listed below are a few common problems the user may encounter, with solutions.*

Unit not respond to DMX:

1. Check that the DMX cables are connected properly and are wired correctly (pin 3 is "hot"; on some other DMX devices pin 5 may be 'hot'). Also, check that all cables are connected to the right connectors; it does matter which way the inputs and outputs are connected.

Note: All information is subject to change without prior notice.