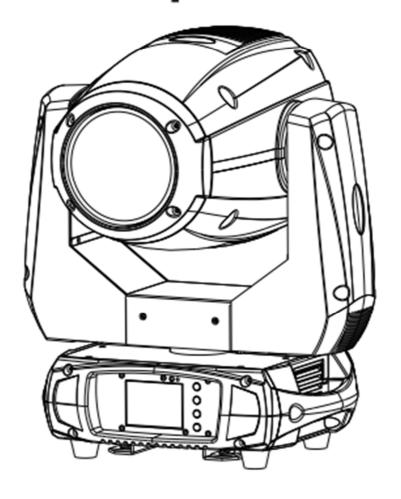


FOS Scorpio BSW HP



Version 1.0

USER MANUAL

- · Be sure to read the USER MANUAL carefully before using this product.
- · Be sure to keep the USER MANUAL properly for future needs.
- Use this product correctly when you can fully understand the User Manual



1. Safety instructions

Thank you for choosing our FOS Scorpio BSW HP . for your own safety, please read this user manual carefully

BEFORE YOU INITIAL START - UP!

CAUTION!

Be careful with your operations.
With a high voltage you can suffera dangerous electric shock when touching the wires!

This device has left our premises in absolutely perfect condition. In order to maintain this condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes written in this manual.

CAUTION!

Keep this device away from rain and moisture! Unplug mains lead before opening the housing!

Important:

The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual or any unauthorized modification to the device.

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

During the operation the housing becomes hot). Allow the fixture to cool approximately 20 minutes prior to manipulate with it.

Make sure that the available voltage is not higher than stated on the rear panel.

WARNING! This unit does not contain an ON/OFF switch. Always disconnect power input cable to completely remove power from unit when not in use or before cleaning or servicing the fixture.

Make sure that the power-cord is never crimped or damaged by sharp edges. Check the device and the power-cord from time to time.

Always disconnect from the mains, when the device is not in use or before cleaning it. Only handle the power-cord by the plug. Never pull out the plug by tugging the power cord.

This device falls under protection class I. Therefore it is essential to connect the yellow/green conductor to earth.

The electric connection, repairs and servicing must be carried out by a qualified employee.

Do not connect this device to a dimmer pack.

Do not switch the fixture on and off in short intervals as this would reduce the lamp's life.

During the initial start-up some smoke or smell may arise. This is a normal process and does not necessarily mean that the device is defective.

Do not touch the device's housing bare hands during its operation (housing becomes hot)!

For replacement use lamps and fuses of same type and rating only.

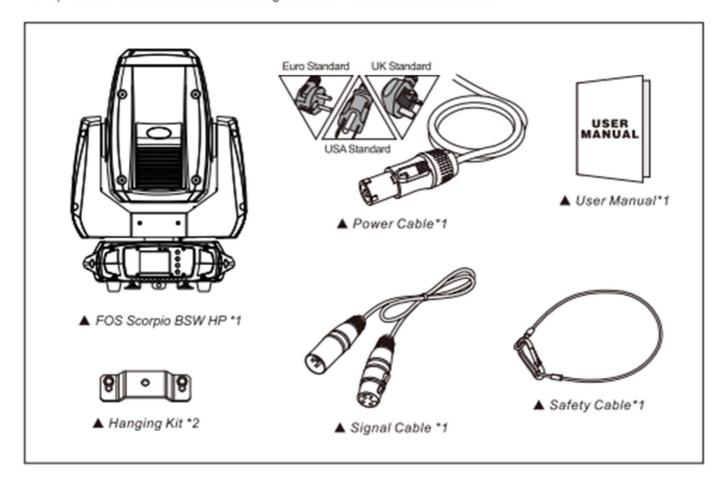
CAUTION! EYE DAMAGES!

Avoid looking directly into the light source
(meant especially for epileptics)!



2.UNPACKING

The FOS Scorpio BSW HP adopts a 300W LED lamp which features high brightness and stability. Please carefully unpack it when you receive the fixture and check whether it is damaged during the transportation. And please check whether the following items are included inside the box:



The FOS Scorpio BSW HP is made of a new type of high temperature strength of engineering plastics and cast aluminum casing with nice outlook. The fixture is designed and manufactured strictly following CE standards, complying with international standard DMX512 protocol. It's available independently controlled and linkable with each other for operation. And it is applicable for large-scale live per formances, theater, studio, nightclubs and discos.

This manual covers the important information on installation and applications. Meanwhile, please keep this manual well for future needs.



3.TECHNICAL INFORMATION

Light Source

- 1 * 260W white led lamp, 7500K, 50000 hours life **Power Supply**
- Input Voltage:AC90-260V 50/60Hz
- Power Consumption: 340W

Construction & Weight

- Dimensions:356*224*492(mm)
- Packing Dimensions:510*470*650 (mm)
- Net Weight:13.3kgs
- Gross Weight:16kgs

Optics

- Zoom range: 2.5*-14* beam application; 8*-36* spot
- application
- Improved optics and flat beam field
- No need for adjustment of reflector or lamp
- Anti-reflection 136mm front lenses

Control

- Control Signal: DMX512, master-slave and sound
- activated or auto operation
- Control Channel:17/15/19 DMX channels USITT DMX-512
- DMX recorder and function integrated

Movement

- 630° /540° /360° PAN and 270°/180° /90° TILT movement
- Smooth and precise resolution for PAN/TILT movement
- Scan position memory, auto preposition after unexpected movement.

Colors Wheel&Gobos Wheel:

- 1 Color wheel with 10 colors plus open.
- 1 Static gobo wheel with 15 gobos plus open
- 1 Rotating gobo wheel with 7 gobos plus open

















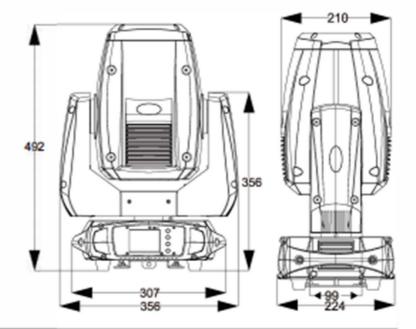


Working Environment

- Fan cooling system
- -35-45°C max ambient temperature
- Constant temperature readout and management function.
- Protection Rating: IP 20

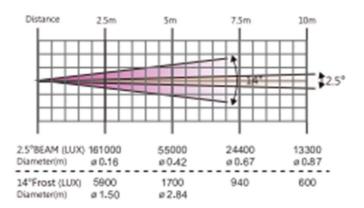
Features

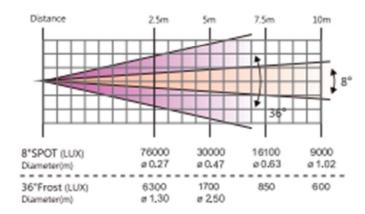
- Anti-reflection lenses
- No need for adjustment of reflector or lamp
- Dual flag mechanical dimming system
- 20T/sec high speed shutter/strobe effect with variable
- speed
- 0-100% Linear LED shutter
- Frost filter available
- Motorized focus from near to far(2m-20m)
- Linear motorized Zoom
- Automatic Pan / Tilt position correction and automatic
- Pan/Tilt mechanical lock function
- 3-facet prism with variable speed and direction
- 2.4' TFT LCD display (320*240pix)
- Display reversible for up side down application
- Vector mode with blackout MIB function
- Electronic ballast and power supply
- Power con IN/OUT
- 3-Pin XLR connectors IN/OUT
- Lamp using time readable on the display
- 55dB at 3'dB rating
- 2*1/4 turn fastening Omega clamps
- 1*Safety attachment point available





4.PHOTOMETRICS DIAGRAM





5. OPERATION INSTRUCTIONS

- The FOS Scorpio BSW HP is for beam effect for on-site decoration purpose.
- Don't turn on the fixture if it's been through severe temperature difference like after transportation because it might damage the light due to the environment changes. So make sure to operate the fixture until it is in normal temperature.
- This light should be keep away from strong shaking during any transportation or movement.
- Don't pull up the light by only the head, or it might cause damages to the mechanical parts.
- Don't expose the fixture in overheat, moisture or environment with too much dust when installing it. And
- don't lay any power cables on the floor. Or it might cause electronic shock to the people.
- Make sure the installation place is in good safety condition before installing the fixture.
- Make sure to put the safety chain and check whether the screws are screwed properly when installing the fixture.
- Make sure the lens are in good condition. It's recommended to replace the units if there are any damages
 or severe scratch.
- Make sure the fixture is operated by qualified personnel who knows the fixture before using.
- Keep the original packages if any second shipment is needed.
- Don't try to change the fixtures without any instruction by the manufacturer or the appointed repairing agencies.
- It is not in warranty range if there are any malfunctions from not following the user manual to operate or any illegal operation, like shock short circuit, electronic shock, lamp broke, etc.



6.INSTALLATIONS

Cautions:

For added protection mount the fixtures in areas outside walking paths, seating areas, or in areas were the fixture might be reached by unauthorized personnel.

Before mounting the fixture to any surface, make sure that the installation area can hold a minimum point load of 10 times the device's weight.

Fixture installation must always be secured with a secondary safety attachment, such as an appropriate safety cable.

Never stand directly below the device when mounting, removing, or servicing the fixture.

from a ceiling, or set on a flat level surface (see illustration below). Be sure this fixture is kept at least 0.5m (1.5 f t) away from any flammable materials (decoration etc.).

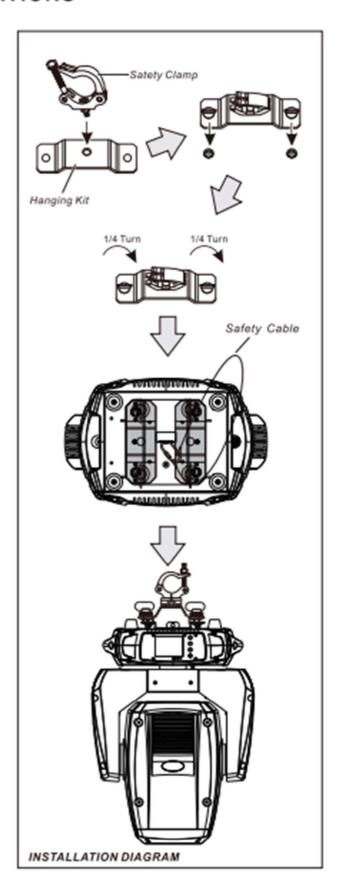
Always use and install the supplied safety cable as a safety measure to prevent accidental damage and/or injury in the event the clamp fails.

Mounting points:

Overhead mounting requires extensive experience, including amongst others calculating working load limits, a fine knowledge of the installation material being used, and periodic safety inspection of all installation material and the fixture. If you lack these qualifications, do not attempt the installation yourself. Improper installation can result in bodily injury. Be sure to complete all rigging and installation procedures before connecting the main power cord to the appropriate wall outlet.

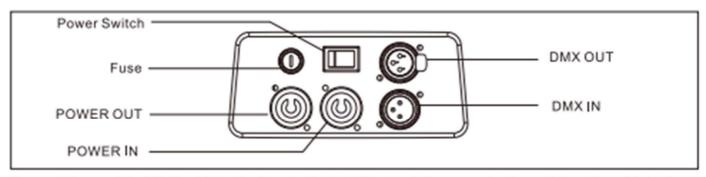
Clamp Mounting:

FOS Scorpio BSW HP provides a unique mounting bracket assembly that integrates the bottom of the base, and the safety cable rigging point in one unit (see the illustration below). When mounting this fixture to truss be sure to secure an appropriately rated clamp to the included omega bracket using a M10 screw fitted through the center hole of the "Hanging Kit". As an added safety measure be sure to attached at least one properly rated safety cable to the fixture using on of the safety cable rigging point integrated in the base assembly.



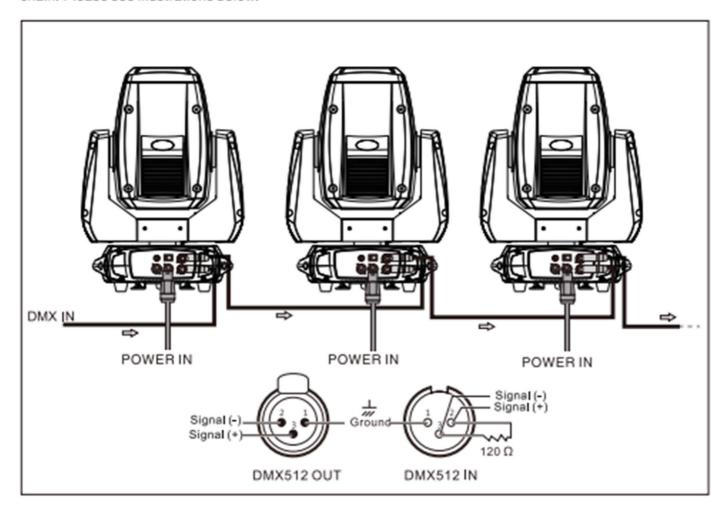


7.CONTROL CONNECTION



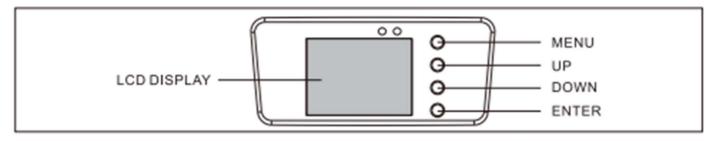
Connect the provided XLR cable to the female 3-pin XLR output of your controller and the other side to the male 3-pin XLR input of the moving head. You can chain multiple Moving head together through serial linking. The cable needed should be two core, screened cable with XLR input and output connectors. Please refer to the diagram below. DMX-512 connection with DMX terminator.

For installations where the DMX cable has to run a long distance or is in an electrically noisy environment, such as in a discotheque, it is recommended to use a DMX terminator. This helps in preventing corruption of the digital control signal by electrical noise. The DMX terminator is simply an XLR plug with a3 resistor connected between pins 2 and 3, which is then plugged into the output XLR socket of the last fixture in the chain. Please see illustrations below.





8.MENU OPERATIONS



MENU			Description	
	Dmx Address	A001-AXXX	DMX Address Setting	
		CH17	17 Channel Mode	
	Channel Mode	CH15	15 Channel Mode	
		CH19	19 Channel Mode	
Function Mode		Internal Program1~9	Auto Run	
Tunction Wode	Auto Run	State: Master/Alone		
		Auto Run (On/Off)		
		Internal Program1~9		
	Music Control	State: Master/Alone	Sound Control	
		Music Run (On/Off)		
	Reset Default	Yes/No	Reset Default	
		Wire DMX	Wire DMX	
	Signal Set	Wireless DMX	Wireless DMX	
		Act WDMX&Out	Act WDMX&Out	
		Reverse Pan (On/Off)	Reverse Pan	
	Pan / Tilt	Reverse Tilt (On/Off)	Reverse Tilt	
		Select Pan 630/540/360	Select Pan	
Option		Select Tilt 270/180/90	Select Tilt	
		Mic sensitivity 0~99%	Mic sensitivity	
		OFF Signal Mode (On/Off)	OFF at Original Status and	
	UI SET		ON at Reset Status When no	
		Half Color Wheel(On/Off)	DMX	
		Fast scan(On/Off)	Half Color Wheel(default on)	
			Fast scan(default on)	
Information	Temperature	XXX'C/T	Current Temperature	
Illollilation	Software Version	V1.0-V9.9	Software version	
Manual Control	Reset	Total Reset	Total Reset	
		Pan/Tilt Reset	Pan/Tilt Reset	
		Color Reset	Color Reset	
		Gobo Reset	Gobo Reset	
		The Others Reset	The Others Reset	
	Channel	PAN=XXX	Manual Channel Control	
ADVANCED	Calibration	PAN=XXX	Calibration	
(Access Code 088)				

Special button instruction: press "UP" and "DOWN" for 3 seconds, display menu turns upside down



9.DMX PROTOCOL

Mode/Channel		Value	Function	
17CH				
	-			Pan
1	1 1	1	0255	PAN Movement
2	2	2		Pan-fine
2		2	0255	Fine control of Pan movement
•		_		Tilt
3	2	3	0255	Tilt Movement
				Tilt-fine
4		4	0255	Fine control of Tilt movement
				Color wheel
		l ï	09	Open / white
		1 1	1019	Color 1
		1 1	2029	Color 2
		1 1	3039	Color 3
		1 1	4049	Color 4
		1 1	5059	Color 5
5	3	5	6069	Color 6
	-		7079	Color 7
		1 1	8089	Color 8
		1 1	9099	Color 9
			100127	Color 10
			128189	Forwards rainbow effect from fast to slow
		1 1	190-193	Color rotation stop
		1 1	194255	Backwards rainbow effect from slow to fast
			10 1200	Color wheel (Mode 2)
		1 1	04	Open / white
		1	59	White + Color 1
		1	1014	Color 1
		1 1	1519	Color 1 + Color 2
			2024	Color 2
			2529	Color 2 + Color 3
			3034	Color 3
			3539	Color 3 + Color 4
		1 1	4044	Color 4
			4549	Color 4 + Color 5
		1 1	5054	Color 5
		3 5	5559	Color 5 + Color 6
5	3			
			6064 6569	Color 6 Color 6 + Color 7
			7074	Color 7
			7579	Color 8
			8084	Color 8
			8589	Color 9
			9094	Color 9 Color 9 + Color 10
			9599	
			100104	Color 10 Color 10 + White
			105127	
			128189	Forwards rainbow effect from fast to slow
			190-193	Color rotation stop
	\vdash	194255	Backwards rainbow effect from slow to fast	



				Gobo wheel 1
			09	Open
		1	1019	gobo 1
			2029	gobo 2
			3039	gobo 3
			4049	gobo 4
			5059	gobo 5
	6 4	6	6069	gobo 6
6			7079	gobo 7
			8099	Gobo 1 shake slow to fast
			100119	Gobo 2 shake slow to fast
			120139	Gobo 3 shake slow to fast
			140159	Gobo 4 shake slow to fast
			160179	Gobo 5 shake slow to fast
			180199	Gobo 6 shake slow to fast
			200219	Gobo 7 shake slow to fast
			220255	Rot. gobo wheel cont. rotation slow to fast
\vdash			220255	Gobo 1 rotation
			0127	Gobo indexing
7	5	7	128189	Forwards gobo rotation from fast to slow
l '	ľ	l '	190193	Gobo rotation stop
		_	194255	Backwards gobo rotation from slow to fast
\vdash			134233	Gobo wheel 2
			05	Hole with spot
			611	gobo 1
			1217	_
			1823	gobo 2
				gobo 3
			2429	gobo 4
			3035	gobo 5
			3641	gobo 6
			4247	gobo 7
		6 8	4853	gobo 8
			5459	gobo 9
			6065	gobo 10
			6671	gobo 11
			7277	gobo 12
			7883	gobo 13
١ ,	١ ,		8489	gobo 14
8	٥		9095	gobo 15
			96103	Gobo 1 shake slow to fast
			104111	Gobo 2 shake slow to fast
			112119	Gobo 3 shake slow to fast
			120127	Gobo 4 shake slow to fast
			128135	Gobo 5 shake slow to fast
			136143	Gobo 6 shake slow to fast
			144151	Gobo 7 shake slow to fast
			152159	Gobo 8 shake slow to fast
			160167	Gobo 9 shake slow to fast
			168175	Gobo 10 shake slow to fast
			176183	Gobo 11 shake slow to fast
			184191	Gobo 12 shake slow to fast
			192199	Gobo 13 shake slow to fast
			200207	Gobo 14 shake slow to fast
			208215	Gobo 15 shake slow to fast
I			216255	Rot. gobo wheel cont. rotation slow to fast



		l		Shutter
9 7		l	031	Shutter closed
			3263	shutter open
			6495	Strobe effect slow to fast
	9	96127	shutter open	
		128159	Pulse-effect in sequences slow to fast	
	l	160191	shutter open	
		l	192223	Random strobe effect slow to fast
	l	224255	shutter open	
			2211200	Dimmer
10	8	10	0255	Dimmer 0%100%
			0255	Focus
11	9	11	0.055	
	_	_	0255	h(near) to out(far)
12	10	12		Fcous Fine
12	10	'2		h(near) to out(far)
		_		Zoom
13	11	13	0.055	
			0255	h(near) to out(far)
				Rrotating prism, Prism
			05	OFF
14	12	14	6127	ON
14	'-	,,,	128189	Forwards rotation from fast to slow
		l	190193	Prism rotation stop
			194255	Forwards rotation from fast to slow
				Frost
15	13	15	0199	Frost OFF
			200255	Frost ON
			200200	Speed pan/tile
		l	0225	max to min speed
16 14	14	16	226235	blackout by movement
10	1-4			
			236245	blackout by all wheel changing
	_	_	246255	no function
		l		Special function
		l	079	No function
		l	8084	All Motor reset
		l	8587	Scan motor reset
		15 17	8890	Colors motor reset
			9193	Gobo motor reset
			9496	No function
			9799	Other motor reset
			100108	Internal program 1
			109117	Internal program 2
			118126	Internal program 3
			127135	Internal program 4
			136144	Internal program 5
17	15			
			145153	Internal program 6
			154162	Internal program 7
			163171	Internal program 8
			172180	Internal program 9
			181189	Internal Sound program 1
			190198	Internal Sound program 2
			199207	Internal Sound program 3
			208216	Internal Sound program 4
			217225	Internal Sound program 5
			226234	Internal Sound program 6
			235243	Internal Sound program 7
			244252	Internal Sound program 8
				Internal Sound program 9
		253255	I RETTAL SOUTH PROGRAM 9	



Vector	or Mode Value		ctor Mode Value Function		Function
		18		Color Time	
			0255	max to min speed	
		19		Gobo Time	
		19	0255	max to min speed	

10. Maintenance and cleaning

It is absolutely essential that the fixture is kept clean and that dust, dirt and smoke-fluid residues must not build up on or within the fixture. Otherwise, the fixture's light-output will be significantly reduced. Regular cleaning will not only ensure the maximum light-output, but will also allow the fixture to function reliably throughout its life. A soft lint-free cloth moistened with any good glass cleaning fluid is recommended, under no circumstances should alcohol or solvents be used!

DANGER! Disconnect from the mains before starting any maintenance work

The front objective lens will require weekly cleaning as smoke-fluid tends to building up residues, reducing the light-output very quickly. The cooling-fans should be cleaned monthly.

The interior of the fixture should be cleaned at least annually using a vacuum-cleaner or an air-jet, gobo and graphic wheels and the internal lenses should be cleaned monthly. Remove dust and dirt from the fans and cooling vents using a soft brush and vacuum-cleaner.

Important! Check the air filters periodically and clean before they become clogged!

Clean two air filters placed in the fixture's covers and two in the fixture base. Use a vacuum cleaner, compressed air or you can wash them and put back dry.

After replacing the air filters, reset the elapsed time counter in the menu "Information" (Information-->Air Filters--->Elapsed Time).

Replacing the fuse. Before replacing the fuse, unplug mains lead.

- Remove the fuse holder on the rear panel of the base with a fitting screwdriver from the housing (anticlockwise).
- Remove the old fuse from the fuse holder.
- Install the new fuse in the fuse holder (only the same type and rating).
- 4) Replace the fuseholder in the housing and fix it.