

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.

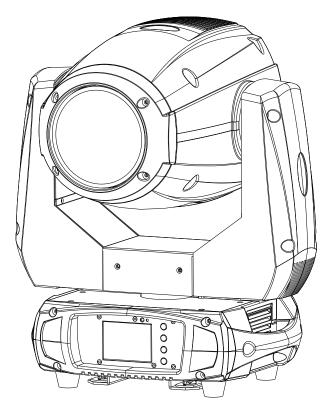
After replacing the air filters, reset the elapsed time counter in the menu "Information" (Information--->Air Filters--->Elapsed Time).

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

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



FOS SCORPIO BSW



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. 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)!



			Shutter		
			031	Shutter closed	
			3263	shutter open	
			6495	Strobe effect slow to fast	
9	7	9	96127	shutter open	
J			128159	Pulse-effect in sequences slow to fast	
			160191	shutter open	
			192223	Random strobe effect slow to fast	
			224255		
			224255	shutter open Dimmer	
10	8	10	0.255		
		11	0255	Dimmer 0%100%	
11	9			Focus	
			0255	In(near) to out(far)	
12	10	12		Fcous Fine	
12	10	12		In(near) to out(far)	
				Zoom	
13	11	13	0255	In(near) to out(far)	
			0255	Rrotating prism, Prism	
			0.5		
			05	OFF	
14	12	14	6127	ON Formation to the form for the day	
			128189	Forwards rotation from fast to slow	
			190193	Prism rotation stop	
		15	194255	Forwards rotation from fast to slow	
				Frost	
15	13		0199	Frost OFF	
	14	16	200255	Frost ON	
				Speed pan/tile	
			0225	max to min speed	
16			226235	blackout by movement	
			236245	blackout by all wheel changing	
			246255	no function	
	15	17		Special function	
			079	No function	
			8084	All Motor reset	
			8587	Scan motor reset	
			8890	Colors motor reset	
			9193	Gobo motor reset	
			9496	No function	
17			9799	Other motor reset	
11			100119	Internal program 1	
			120139	Internal program 2	
			140159	Internal program 3	
			160179	Internal program 4	
			180199	Internal program 5	
			200219	Internal program 6	
			220239	Internal program 7	
			240255	Internal Sound program 1	
Vector Mode		Value	Function		
				Color Time	
		18	0255	max to min speed	
	İ	1	1200	Gobo Time	
			0255	max to min speed	
025				παλ το πιπ ορσσα	

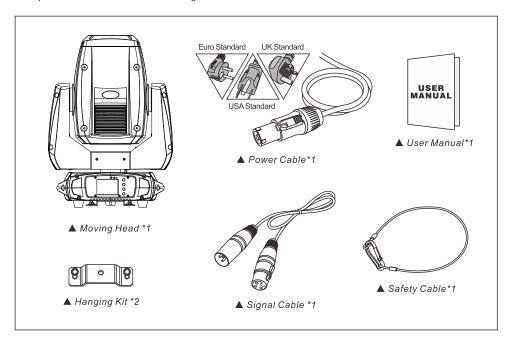




Gobo wheel 1
1019 gobo 1
2029 gobo 2
3039 gobo 3
40.49 gobo 4
Solution Solution
6 4 6 6069 gobo 6 7089 Gobo 1 shake slow to fast 90109 Gobo 2 shake slow to fast 110129 Gobo 3 shake slow to fast 130149 Gobo 4 shake slow to fast 150169 Gobo 5 shake slow to fast 170189 Gobo 6 shake slow to fast 190255 Rot. gobo wheel cont. rotation slow to fast
7089 Gobo 1 shake slow to fast 90109 Gobo 2 shake slow to fast 110129 Gobo 3 shake slow to fast 130149 Gobo 4 shake slow to fast 150169 Gobo 5 shake slow to fast 170189 Gobo 6 shake slow to fast 190255 Rot. gobo wheel cont. rotation slow to fast 0127 Gobo 1 rotation 0127 Gobo indexing 7 5 7 128189 Forwards gobo rotation from fast to slow 190193 Gobo rotation stop 194255 Backwards gobo rotation from slow to fast
90109 Gobo 2 shake slow to fast 110129 Gobo 3 shake slow to fast 130149 Gobo 4 shake slow to fast 150169 Gobo 5 shake slow to fast 170189 Gobo 6 shake slow to fast 190255 Rot. gobo wheel cont. rotation slow to fast
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170189 Gobo 6 shake slow to fast
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Gobo 1 rotation 0127 Gobo indexing 7 5 7 128189 Forwards gobo rotation from fast to slow 190193 Gobo rotation stop 194255 Backwards gobo rotation from slow to fast
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190193 Gobo rotation stop 194255 Backwards gobo rotation from slow to fast
194255 Backwards gobo rotation from slow to fast
Gaba wheel 2
Gobo wheel 2
04 Hole with spot
59 gobo 1
1014 gobo 2
1519 gobo 3
2024 gobo 4
2529 gobo 5
3034 gobo 6
3539 gobo 7
4044 gobo 8
45.49 gobo 9
5054 gobo 10
5559 gobo 11
6064 gobo 12
6569 gobo 13
7074 gobo 14
7579 gobo 15
8 6 8 8084 gobo 16
8592 Gobo 1 shake slow to fast
93100 Gobo 2 shake slow to fast
101108 Gobo 3 shake slow to fast
109116 Gobo 4 shake slow to fast
117124 Gobo 5 shake slow to fast
125132 Gobo 6 shake slow to fast
133140 Gobo 7 shake slow to fast
141148 Gobo 8 shake slow to fast
149156 Gobo 9 shake slow to fast
157164 Gobo 10 shake slow to fast
165172 Gobo 11 shake slow to fast
173180 Gobo 12 shake slow to fast
181188 Gobo 13 shake slow to fast
189196 Gobo 14 shake slow to fast
197204 Gobo 15 shake slow to fast
205212 Gobo 16 shake slow to fast
213255 Rot. gobo wheel cont. rotation slow to fast

2.UNPACKING

The FOS SCORPIO BSW adopts a 200W 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 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.



FOS technologies

3.TECHNICAL INFORMATION

Light Source

■ 1* 200W white led lamp, 7500K, 50000 hours life span.

Power Supply

- Input Voltage:AC90-260V 50/60Hz
- Power Consumption: 300W

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 optional
- 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 16 gobos plus open
- 1 Rotating gobo wheel with 6 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

9.DMX PROTOCOL

3.DIMX11101000E						
Mode/Channel			Value	Function		
17	15	19				
1	1	1		Pan		
	· ·		0255	PAN Movement		
2		2		Pan-fine		
		2	0255	Fine control of Pan movement		
3	2	3		Tilt		
	2		0255	Tilt Movement		
4		4		Tilt-fine		
-		4	0255	Fine control of Tilt movement		
				Color wheel		
			09	Open / white		
			1019	Color 1		
			2029	Color 2		
			3039	Color 3		
			4049	Color 4		
			5059	Color 5		
5	3	5	6069	Color 6		
			7079	Color 7		
			8089	Color 8		
			9099	Color 9		
			100127	Color 10		
			128189	Forwards rainbow effect from fast to slow		
			190-193	Color rotation stop		
			194255	Backwards rainbow effect from slow to fast		
				Color wheel (Mode 2)		
			04	Open / white		
			59	White + Color 1		
			1014	Color 1		
			1519	Color 1 + Color 2		
	3	5	2024	Color 2		
			2529	Color 2 + Color 3		
			3034	Color 3		
			3539	Color 3 + Color 4		
			4044	Color 4		
			4549	Color 4 + Color 5		
			5054	Color 5		
5			5559	Color 5 + Color 6		
			6064	Color 6		
			6569	Color 6 + Color 7		
			7074	Color 7		
			7579	Color 7 + Color 8		
			8084	Color 8		
			8589	Color 8 + Color 9		
			9094	Color 9		
			9599	Color 9 + Color 10		
			100104	Color 10		
			105127	Color 10 + White		
			128189	Forwards rainbow effect from fast to slow		
			190-193	Color rotation stop		
			194255	Backwards rainbow effect from slow to fast		

Rotating gobos

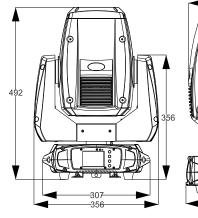


Static gobos



Color Whee

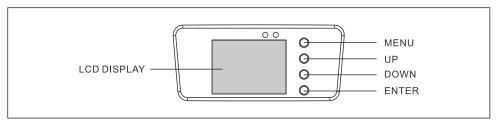








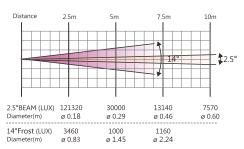
8.MENU OPERATIONS

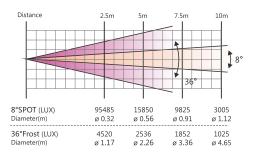


		Description	
	Dmx Address	A001~AXXX	DMX address setting
Function		CH17 MODE	Standard mode
Mode	Channel Mode	CH15MODE	Vector mode
		CH19 MODE	Extended mode
	Auto Run	Internal Program1~9 Master/Alone	Internal Program
	Music Control	Internal Program1~9 ¦ Master/Alone	Internal Program
	Reset Default	Yes/No	Reset Default
	Signal Set	Wire DMX	Wire DMX
		Wireless DMX	Wireless DMX
		Act WDMX & Out	Act WDMX & Out
		Reverse Pan (On/Off)	Reverse Pan
Option		Reverse Tilt (On/Off)	Reverse Tilt
	Pan / Tilt	Select Pan 630°/540°/360°	Pan Degree
		Select Tilt 270°/180°/90°	Tilt Degree
		Mic sensitity 0~99%	MIC Sensitivity Setting
	UISET	OFF Signal Mode (On/Off)	OFF at original status and ON at reset status when no DMX signal
		Half Color Wheel(On/Off)	Open half color function (Default: off)
		PrismRot Fast (On/off)	Select prism rotation speed (Default: slow)
		Dimmer Smooth (On/off)	Dimmer Smooth(On/off)
Information	Temperature	XXX°C/°F	Current Temperature
	Software Version	V1.0~V9.9	Software Version
		Total Reset	Total Reset
		Pan/Tilt Reset	Pan/Tilt Reset
Manual	Reset	Color Reset	Color Reset
Control		Gobo Reset	Gobo Reset
		The Others Reset	The Others Reset
	Channel	PAN=XXX	Channel Control
Advanced Calibration Access Code 088)		PAN=XXX	Calibration

07

4.PHOTOMETRICS DIAGRAM





5.OPERATION INSTRUCTIONS

- The FOS SCORPIO BSW 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 ft) away from any flammable materials (decoration etc.).

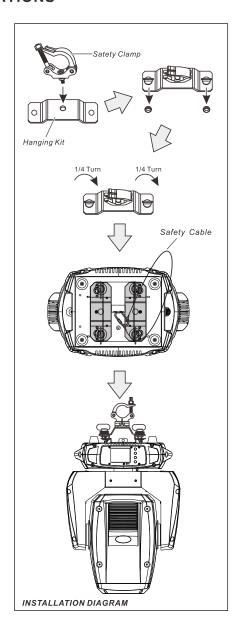
Always use and install the supplied safety cable as a safety measure to prevent accidental damage and/or injury in the event the clamp fails.

Mounting points:

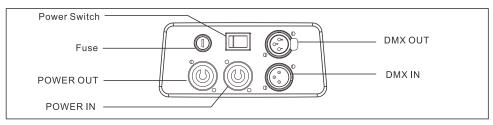
Overhead mounting requires extensive experience, including amongst others calculating working load limits, a fine knowledge of the installation material being used, and periodic safety inspection of all installation material and the fixture. If you lack these qualifications, do not attempt the installation 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 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.

