

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 fixtures 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. Dichroic colour filters, CMY lamellas, 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.

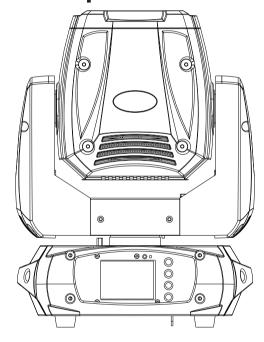
After replacing the air filters, reset the elapsed time counter in the menu "Information" (Information--->Air Filters--->Elapsed Time).

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 Spot 100 Pro



Version 1.0

USER MANUAL-S1

- 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





Thank you for choosing FOS Spot 100 Pro . 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 lamps' 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)!



Total	
12 10 0255 In(near) to out(far) Prism &Rrotating 05 OFF 6127 ON 128255 Rrotating from slow to fast Special function 019 No function 2029 No function 3039 No function 4079 No function 8084 All Motor reset 8587 Scan motor reset	11 0
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8890 Colors motor reset	
20.000	
9193 Gobo motor reset	
13 11 9496 No function	13 11
9799 Other motor reset	
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	

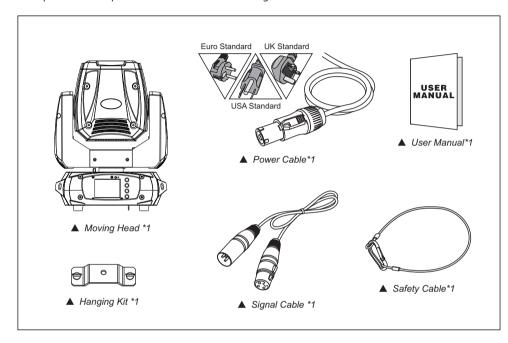




			Gobo wheel	
		09	Open	
		1019	gobo 1	
		2029	gobo 2	
		3039	gobo 3	
		4049	gobo 4	
		5059	gobo 5	
7	5	6069	gobo 6	
		7089	Gobo 1 shake slow to fast	
		90109	Gobo 2 shake slow to fast	
		110129	Gobo 3 shake slow to fast	
		130149	Gobo 4 shake slow to fast	
		150169	Gobo 5 shake slow to fast	
		170189	Gobo 6 shake slow to fast	
		190255	Rot. gobo wheel cont. rotation slow to fast	
			Gobo rotation	
		03	no function	
8				
8	5	4127	Forwards gobo rotation from fast to slow	
8	5			
8	5	4127	Forwards gobo rotation from fast to slow	
8	5	4127 128131	Forwards gobo rotation from fast to slow Gobo rotation stop	
8	5	4127 128131 132255 031	Forwards gobo rotation from fast to slow Gobo rotation stop Backwards gobo rotation from slow to fast	
8	5	4127 128131 132255 031 3263	Forwards gobo rotation from fast to slow Gobo rotation stop Backwards gobo rotation from slow to fast Shutter Shutter closed shutter open	
		4127 128131 132255 031 3263 6495	Forwards gobo rotation from fast to slow Gobo rotation stop Backwards gobo rotation from slow to fast Shutter Shutter closed	
9	7	4127 128131 132255 031 3263 6495 96127	Forwards gobo rotation from fast to slow Gobo rotation stop Backwards gobo rotation from slow to fast Shutter Shutter closed shutter open Strobe effect slow to fast shutter open	
		4127 128131 132255 031 3263 6495 96127 128159	Forwards gobo rotation from fast to slow Gobo rotation stop Backwards gobo rotation from slow to fast Shutter Shutter closed shutter open Strobe effect slow to fast shutter open Pulse-effect in sequences slow to fast	
		4127 128131 132255 031 3263 6495 96127 128159 160191	Forwards gobo rotation from fast to slow Gobo rotation stop Backwards gobo rotation from slow to fast Shutter Shutter closed shutter open Strobe effect slow to fast shutter open Pulse-effect in sequences slow to fast shutter open	
		4127 128131 132255 031 3263 6495 96127 128159 160191 192223	Forwards gobo rotation from fast to slow Gobo rotation stop Backwards gobo rotation from slow to fast Shutter Shutter closed shutter open Strobe effect slow to fast shutter open Pulse-effect in sequences slow to fast shutter open Random strobe effect slow to fast	
		4127 128131 132255 031 3263 6495 96127 128159 160191	Forwards gobo rotation from fast to slow Gobo rotation stop Backwards gobo rotation from slow to fast Shutter Shutter closed shutter open Strobe effect slow to fast shutter open Pulse-effect in sequences slow to fast shutter open Random strobe effect slow to fast shutter open	
		4127 128131 132255 031 3263 6495 96127 128159 160191 192223	Forwards gobo rotation from fast to slow Gobo rotation stop Backwards gobo rotation from slow to fast Shutter Shutter closed shutter open Strobe effect slow to fast shutter open Pulse-effect in sequences slow to fast shutter open Random strobe effect slow to fast	

2.UNPACKING

The FOS Spot 100 Pro adopts a 100W white 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 Spot 100 Pro 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

SPECIFICATIONS:

- A 100W white LED lamp
- 50000 hours rated lamp source
- Input Voltage:AC90-260V 50/60Hz
- Power Consumption: 187W
- Control Signal:DMX512, master-slave and sound activated or auto operation (7 built-inprograms)
- Control Channel:13/11 DMX channels USITT

DMX-512

- Dimensions:149(D)*70(W)*366(H)mm
- Packing Dimensions:350(D)*450(W)*240(H)mm
- Net Weight:6.72kgs
- Gross Weight: 8.47kgs

FEATURES:

- 12.5° Beam angle
- Anti-reflection 136mm front lenses
- Motorized focus from near to far(2.5M-30M)
- 3-Facet prism with variable speed and direction
- Frost filter available (Hybrid effect for wash)
- Dual flag mechanical dimming system
- 25T/sec high speed LED shutter/strobe effect with variable speed
- Preset variable/random strobe and dimming pulse effect
- 2.4' TFT LCD display (320*240pix)
- Display reversible for up side down application
- Powercon IN/OUT
- 3-Pin XLR connectors IN/OUT
- Lamp using time readable on the display
- IP20 protection rating
- 55dB at 3'dB rating
- 2*1/4 turn fastening Omega clamps
- 1*Safety attachment point available

MOVEMENT:

Smooth and precise resolution for PAN/TILT movement

Static Gobo Wheel



03

- 360° /540° /630° PAN and 90°/180° /270° TILT movement optional
- Scan position memory, auto reposition after unexpected movement

COLORS:

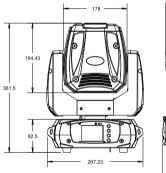
■ 1 Color wheel with 7 colors plus open.

GOBOS:

 1 rotatable gobo wheel with 6 rotatable and interchangeable gobos plus open

FUNCTION:

- Electronic ballast and power supply
- Improved optics and flat beam field
- No need for adjustment of reflector or lamp
- Variable direction rainbow effect with speed adjustable
- Vector mode with blackout MIB function
- Constant temperature readout and management function
- Fan cooling system
- -35-45°C max ambient temperature





Color Wheel



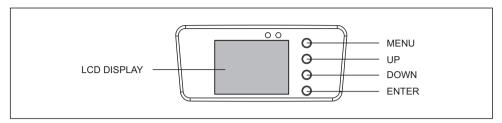
9.DMX PROTOCOL

Mode/Channel		Value	Function		
16b	8b				
4			Pan		
1	1	0255	PAN Movement		
2			Pan-fine		
		0255	Fine control of Pan movement		
3	2		Tilt		
3		0255	Tilt Movement		
4			Tile-fine		
4		0255	Fine control of Tilt movement		
5	3		Speed pan/tile		
		0225	max to min speed		
		226235	blackout by movement		
		236245	blackout by all wheel changing		
		246255	no function		
6	4		Color wheel		
		015	Open / white		
		1631	Color 1		
		3247	Color 2		
		4863	Color 3		
		6479	Color 4		
		8095	Color 5		
		96111	Color 6		
		112127	Color 7		
		128189	Forwards rainbow effect from fast to slow		
		190-193	Color rotation stop		
		194255	Backwards rainbow effect from slow to fast		





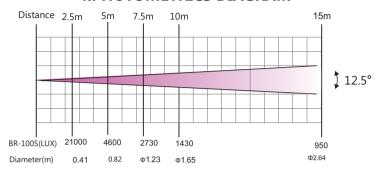
8.MENU OPERATIONS



		Description	
	Dmx Address	A001~AXXX	DMX address setting
	Channel Mode	CH13 MODE	Standard mode
	L	CH11 MODE	\ Vector mode
	Auto Run	Internal Program1~8 Master/Alone	Auto run
	Music Control	Internal Program1~8 Master/Alone	Sound Control
Option	Reset Default	Yes/No	Reset Default
	i i	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 540°/360°/630° Select Tilt 270°/90°/180°		Pan Degree,default is 540°
			Tilt Degree, default is 270°
	UI SET	Mic SEN 0~99%	MIC Sensitivity Setting
		OFF Signal Mode (On/Off)	OFF at original status and ON at reset status when no DMX signal
	1	Half Color Wheel(On/Off)	Half color Select
	i	Scan Fast Mode(On/Off)	Scan Fast Mode
	Temperature	XXX°C/°F	Current Temperature
	Software Version	V1.0~V9.9	Software Version
		Total Reset	Total Reset
Manual	1	Pan/Tilt Reset	Pan/Tilt Reset
Control	Reset	Color Reset	Color Reset
		Gobo Reset	Gobo Reset
		The Others Reset	The Others Reset
	Channel	PAN=XXX	Channel Control
	Calibration	PAN=XXX	Calibration

07

4.PHOTOMETRICS DIAGRAM



5.OPERATION INSTRUCTIONS

- The FOS Spot 100 Pro 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.).

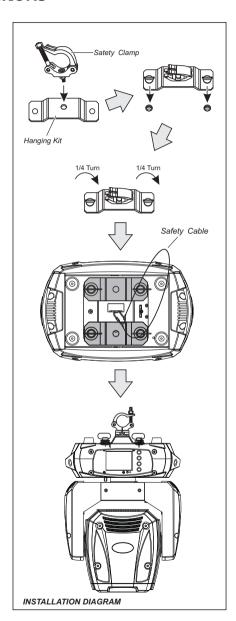
Always use and install the supplied safety cable as a safety measure to prevent accidental damage and/or injury in the event the clamp fails.

Mounting points:

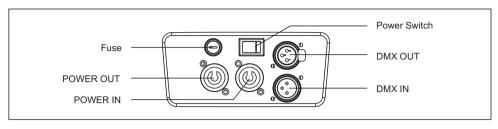
Overhead mounting requires extensive experience, including amongst others calculating working load limits, a fine knowledge of the installation material being used, and periodic safety inspection of all installation material and the fixture. If you lack these qualifications, do not attempt the installation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

The FOS Spot 100 Pro 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 a 3 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.

