

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. 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 150 Pro



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 Spot 150 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 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	96127	shutter open	
	,	128159	Pulse-effect in sequences slow to fast	
		160191	shutter open	
		192223	Random strobe effect slow to fast	
		224255	shutter open	
		224233	Dimmer	
10	8	0255	Dimmer 0%100%	
		0255	Focus	
11	9	0.055		
		0255	In(near) to out(far)	
			Rrotating prism	
	10	05	Prism swing out(hole)	
12		6127	Prism swing in	
		128189	Prism Forwards rotation from fast to slow	
		190193	Prism rotation stop	
		194255	Prism Backwards rotation from slow to fast	
			Speed pan/tile	
	11	0225	max to min speed	
13		226235	blackout by movement	
		236245	blackout by all wheel changing	
		246255	no function	
			Special function	
	12	019	No function	
		2029	No function	
		3039	No function	
		4079	No function	
		8084	All Motor reset	
		8587	Scan motor reset	
		8890	Colors motor reset	
		9193	Gobo motor reset	
14		9496	No function	
		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	





2.UNPACKING

FOS Spot 150 Pro adopts a 150W 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:



FOS Spot 150 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.

Gobo wheel 1 09 Open 1019 gobo 1 2029 gobo 2 3039 gobo 3	
1019 gobo 1 2029 gobo 2	
2029 gobo 2	
1 30 38 1 0000.3	
4049 gobo 4	
5059 gobo 5	
6 4 6069 gobo 6	
7089 Gobo 1 shake slow to fa	ast
90109 Gobo 2 shake slow to fa	
110129 Gobo 3 shake slow to fa	
130149 Gobo 4 shake slow to fa	
150169 Gobo 5 shake slow to fa	
170189 Gobo 6 shake slow to fa	
190255 Rot. gobo wheel cont. rotation s	
Gobol rotation	510W to 1851
03 no function	
7 5 4127 Forwards gobo rotation from fa	ast to slow
128131 Gobo&prism rotation st	
132255 Backwards gobo rotation from s	
Gobo wheel 2	
09 Open	
1019 gobo 1	
2029 gobo 2	
3039 gobo 3	
4049 gobo 4	
5059 gobo 5	
6069 gobo 6	
7079 gobo 7	
8089 gobo 8	
9099 gobo 9	
8 6 100109 gobo 10	
110119 Gobo 1 shake slow to fa	ast
120129 Gobo 2 shake slow to fa	ast
130139 Gobo 3 shake slow to fa	ast
140149 Gobo 4 shake slow to fa	ast
150159 Gobo 5 shake slow to fa	ast
160169 Gobo 6 shake slow to f	ast
170179 Gobo 7 shake slow to fa	ast
180189 Gobo 8 shake slow to fa	
190199 Gobo 9 shake slow to fa	
200209 Gobo 10 shake slow to t	
210255 Rot. gobo wheel cont. rotation s	slow to fast



3.TECHNICAL INFORMATION

SPECIFICATIONS:

- A 150W white LED lamp,7500K, 50000 hours life span I Color wheel with 8 colors plus open.
- Input Voltage:AC90-260V 50/60Hz
 Power Consumption: 195W
- Control Signal:DMX512, master-slave and sound activated or auto operation (7 built-in programs)
- Control Channel: 14/12 DMX channels USITT DMX-512
- Dimensions:266(D)*177(W)*362(H)mm
- Packing Dimensions:350(D)*245(W)*450(H)mm
- Net Weight:6.6kgs
- Gross Weight:7.6kgs

FEATURES:

- Low power consumption
- 13° Beam angle
- Motorized focus from near to far(2.5M-30M)
- 3-Facet prism with variable speed and direction
- 25T/sec high speed LED shutter/strobe effect with variable speed
- Preset variable/random strobe and dimming pulse effect
- 1.8' TFT LCD display (160*128pix)
- Powercon IN
- 3-Pin XLR connectors IN/OUT
- IP20 protection rating
- 55dB at 3'dB rating
- 1*1/4 turn fastening Omega clamps
- 1*Safety attachment point available

MOVEMENT:

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

RotatingGobo Wheel



COLORS: 1 Color whe

GOBOS:

- 1 Rotating Gobo Wheel with 6 gobos plus open
- 1 Static Gobo Wheel with 10 gobos plus open

FUNCTION:

- Improved optics and flat beam field
- Variable direction rainbow effect with speed adjustable
- Vector mode with blackout MIB function
- Constant temperature readout and management function
- Fan cooling system

361.5

-35-45°C max ambient temperature



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9.DMX PROTOCOL

Mode/Channel		Value	Function		
16b	8b				
1	1		Pan		
		0255	PAN Movement		
2			Pan-fine		
-		0255	Fine control of Pan movement		
3	2		Tilt		
0		0255	Tilt Movement		
4			Tile-fine		
4		0255	Fine control of Tilt movement		
			Color wheel		
		013	Open / white		
		1427	Red		
		2841	Blue		
		4255	Green		
		5669	Yellow		
5	3	7083	Rosy Red		
		8497	Deep Blue		
		98111	Deep Yellow		
		112127	Orange		
		128189	Forwards rainbow effect from fast to slow		
		190-193	Color rotation stop		
		194255	Backwards rainbow effect from slow to fast		
		104200	Color wheel(Half color Mode)		
		06	Open / white		
	3	713	Open+Red		
		1420	Red		
		2127	Red+Blue		
		2834	Blue		
		3541	Blue+Green		
		4248	Green		
		4955	Green+Yellow		
		5662	Yellow		
		6369	Yellow + Rosy Red		
5		7076	Rosy Red		
		7783	Rosy Red + Deep Blue		
		8490	Deep Blue		
		9197	Deep Blue + Deep Yellow		
		98104			
		105111	Deep Yellow Deep Yellow + Orange		
		112118			
		112118	Orange		
			Orange + Open		
		128189	Forwards rainbow effect from fast to slow		
		190-193	Color rotation stop		
		194255	Backwards rainbow effect from slow to fast		





8.MENU OPERATIONS



		MENU	Description
DMX (Function Mode)	Dmx Address	A001~AXXX	DMX address setting
	Channel Mode	CH14 MODE	Standard mode
		CH12 MODE	Vector mode
	Auto Run	Program1~9 Master/Alone	Auto run
	Music Run	Program1~9 Master/Alone	Sound Control
	Reset Default	Yes/No	Reset Default
SET (Fixture Set)	Signal Set	Wire	Wire DMX
	Reverse Pan	(On/Off)	Reverse Pan
	Reverse Tilt	(On/Off)	Reverse Tilt
	Select Pan 630°/540°/360°		Pan Degree,default is 540°
	Select Tilt	270°/180°/90°	Tilt Degree,default is 270°
	Mic Sensitivity	0~99%	MIC Sensitivity Setting
	OFF Signal Mode	(On/Off)	OFF at original status and ON at reset status when no DMX signal
	Half Color Wheel	(On/Off)	Half color Select
	Reset	Total Reset	Total Reset
Manu		Scan Reset	Scan Reset
(Manual)		Color Reset	Color Reset
		Gobo Reset	Gobo Reset
		Others Reset	The Others Reset
	Channel	PAN=XXX	Channel Control
ADV Calibration (Advanced) (Access Code 088)		PAN=XXX	Calibration

4.PHOTOMETRICS DIAGRAM



5.OPERATION INSTRUCTIONS

- FOS Spot 150 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:

FOS Spot 150 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.



INSTALLATION DIAGRAM





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.

