

			9193	Gobo motor reset	
		17	9496	9496 Strobe motor reset	
			9799	Other motor reset	
			100119	Internal program 1	
			120139 Internal program 2		
17	15		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	
Vecto	Vector Mode		Value	Function	
		18		Color Time	
			0255 max to min speed		
		10		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. 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.

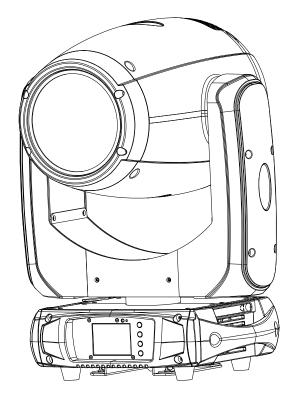
After replacing the air filters, reset the elapsed time counter in the menu "Information" (Information--->Air Filters--->Elapsed Time).

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 NItro 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





Thank you for FOS NItro 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)!



			99105	Gobo 2 shake slow to fast	
			106112	Gobo 3 shake slow to fast	
	8 6				
			113119	Gobo 4 shake slow to fast	
			120126	Gobo 5 shake slow to fast	
			127133	Gobo 6 shake slow to fast	
			134140	Gobo 7 shake slow to fast	
			141147	Gobo 8 shake slow to fast	
_		8	148154	Gobo 9 shake slow to fast	
°		0	155161	Gobo 10 shake slow to fast	
			162168	Gobo 11 shake slow to fast	
			169175	Gobo 12 shake slow to fast	
			176182	Gobo 13 shake slow to fast	
			183189	Gobo 14 shake slow to fast	
			190196	Gobo 15 shake slow to fast	
			197203	Gobo 16 shake slow to fast	
			204255	Rot. gobo wheel cont. rotation slow to fast	
				Shutter	
			031	Shutter closed	
			3263	shutter open	
			6495	Strobe effect slow to fast	
9	7	9	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	10			
			0255	Dimmer 0%100%	
11	9	11		Focus	
_ · ·			0255	n(near) to out(far)	
12	10	12		Zoom	
12	10	'2	0255	In(near) to out(far)	
				Prism	
	٠	40	05	Prism OFF	
13	11	13	6127	Prism 1 ON	
			128255	Prism 2 ON	
			120200	Rrotating Prism	
		14	128189	Forwards rotation from fast to slow	
14	12				
			190193	Prism rotation stop	
			194255	Forwards rotation from slow to fast	
				Frost	
15	13	15	0199	Frost OFF	
			200255	Frost ON	
				Speed pan/tile	
	14	16	0225	max to min speed	
16			226235	blackout by movement	
			236245	blackout by all wheel changing	
			246255	no function	
			2-70200	Special function	
			0.40		
1		17	019	No function	
			2029	No function	
	45		3039	No function	
17	15		4059	Lamp on	
1			6079	Lamp switch off	
			8084	All Motor reset	
			8587	Scan motor reset	
L			8890	Colors motor reset	
				·	

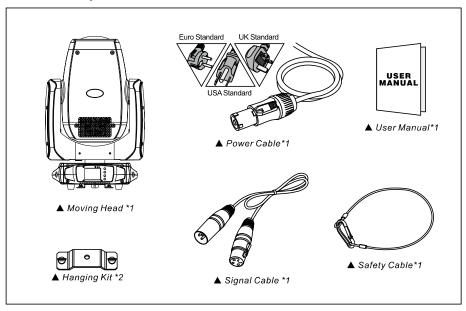






2.UNPACKING

The FOS NItro BSW adopts a 295W 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 NItro 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.

S5.99 Color 9 + Color 10
105109 Color 10 + Color 11
5 3 5 110114 (115127) (115127) (115127) (115127) (115127) (115127) (115127) (115127) (115127) (115127) (115127) (115127) (115127) (115127) (115128) (115129) (115129) (115129) (115129) (115129) (115129) (115129) (115129) (115129) (115129) (115129) (115139) (115124) (115139) (115124) (115139) (115124) (115139) (115124) (115139) (115124) (115139) (115124) (115139) (115124) (115139) (115124) (115139) (115124) (115139) (115124) (115139) (115124) (115139) (115124) (115139) (115124) (115139) (115124) (115139) (115124) (115139) (115124) (11512
115127 Color 11 + White 128189
128189 Forwards rainbow effect from fast to slow
190-193 Color rotation stop
194255 Backwards rainbow effect from slow to fast
6 4 6 Gobo wheel 1 09 Open 1019 gobo 1 2029 gobo 2 3039 gobo 3 4049 gobo 4 5059 gobo 5 6069 gobo 6 7079 gobo 7 8094 Gobo 1 shake slow to fast 95109 Gobo 2 shake slow to fast 110124 Gobo 3 shake slow to fast 125139 Gobo 4 shake slow to fast 140154 Gobo 5 shake slow to fast 155169 Gobo 6 shake slow to fast 155169 Gobo 7 shake slow to fast 170184 Gobo 7 shake slow to fast 185255 Rot. gobo wheel cont. rotation slow to fast
6 4 6 Gobo wheel 1 09 Open 1019 gobo 1 2029 gobo 2 3039 gobo 3 4049 gobo 4 5059 gobo 5 6069 gobo 6 7079 gobo 7 8094 Gobo 1 shake slow to fast 95109 Gobo 2 shake slow to fast 110124 Gobo 3 shake slow to fast 125139 Gobo 4 shake slow to fast 140154 Gobo 5 shake slow to fast 155169 Gobo 6 shake slow to fast 155169 Gobo 7 shake slow to fast 170184 Gobo 7 shake slow to fast 185255 Rot. gobo wheel cont. rotation slow to fast
6 4 6 70.79 gobo 1 20.29 gobo 2 30.39 gobo 3 40.49 gobo 4 50.59 gobo 5 60.69 gobo 6 70.79 gobo 7 80.94 Gobo 1 shake slow to fast 95.109 Gobo 2 shake slow to fast 110.124 Gobo 3 shake slow to fast 125.139 Gobo 4 shake slow to fast 140.154 Gobo 5 shake slow to fast 155.169 Gobo 6 shake slow to fast 170184 Gobo 7 shake slow to fast 185.255 Rot. gobo wheel cont. rotation slow to fast
6 4 6 70.79 gobo 1 20.29 gobo 2 30.39 gobo 3 40.49 gobo 4 50.59 gobo 5 60.69 gobo 6 70.79 gobo 7 80.94 Gobo 1 shake slow to fast 95.109 Gobo 2 shake slow to fast 110.124 Gobo 3 shake slow to fast 125.139 Gobo 4 shake slow to fast 140.154 Gobo 5 shake slow to fast 155.169 Gobo 6 shake slow to fast 170184 Gobo 7 shake slow to fast 185.255 Rot. gobo wheel cont. rotation slow to fast
20.29 gobo 2
3039
6 4 6 70.79 gobo 5 60.69 gobo 6 70.79 gobo 7 80.94 Gobo 1 shake slow to fast 95109 Gobo 2 shake slow to fast 110124 Gobo 3 shake slow to fast 125139 Gobo 4 shake slow to fast 140154 Gobo 5 shake slow to fast 155169 Gobo 6 shake slow to fast 170184 Gobo 7 shake slow to fast 185255 Rot. gobo wheel cont. rotation slow to fast
6 4 6 70.79 gobo 5 60.69 gobo 6 70.79 gobo 7 80.94 Gobo 1 shake slow to fast 95109 Gobo 2 shake slow to fast 110124 Gobo 3 shake slow to fast 125139 Gobo 4 shake slow to fast 140154 Gobo 5 shake slow to fast 155169 Gobo 6 shake slow to fast 170184 Gobo 7 shake slow to fast 185255 Rot. gobo wheel cont. rotation slow to fast
6 4 6 60.69 gobo 6 7079 gobo 7 8094 Gobo 1 shake slow to fast 95109 Gobo 2 shake slow to fast 110124 Gobo 3 shake slow to fast 125139 Gobo 4 shake slow to fast 140154 Gobo 5 shake slow to fast 155169 Gobo 6 shake slow to fast 170184 Gobo 7 shake slow to fast 185255 Rot. gobo wheel cont. rotation slow to fast Gobo 1 rotation
6 4 6 7079 gobo 7 8094 Gobo 1 shake slow to fast 95109 Gobo 2 shake slow to fast 110124 Gobo 3 shake slow to fast 125139 Gobo 4 shake slow to fast 140154 Gobo 5 shake slow to fast 155169 Gobo 6 shake slow to fast 170184 Gobo 7 shake slow to fast 185255 Rot. gobo wheel cont. rotation slow to fast Gobo 1 rotation
80.94 Gobo 1 shake slow to fast 95109 Gobo 2 shake slow to fast 110124 Gobo 3 shake slow to fast 125139 Gobo 4 shake slow to fast 140154 Gobo 5 shake slow to fast 155169 Gobo 6 shake slow to fast 170184 Gobo 7 shake slow to fast 185255 Rot. gobo wheel cont. rotation slow to fast Gobo 1 rotation
95109 Gobo 2 shake slow to fast 110124 Gobo 3 shake slow to fast 125139 Gobo 4 shake slow to fast 140154 Gobo 5 shake slow to fast 155169 Gobo 6 shake slow to fast 170184 Gobo 7 shake slow to fast 185255 Rot. gobo wheel cont. rotation slow to fast Gobo 1 rotation
110124 Gobo 3 shake slow to fast
125139 Gobo 4 shake slow to fast 140154 Gobo 5 shake slow to fast 155169 Gobo 6 shake slow to fast 170184 Gobo 7 shake slow to fast 185255 Rot. gobo wheel cont. rotation slow to fast Gobo 1 rotation
140154 Gobo 5 shake slow to fast 155169 Gobo 6 shake slow to fast 170184 Gobo 7 shake slow to fast 185255 Rot. gobo wheel cont. rotation slow to fast Gobo 1 rotation
155169 Gobo 6 shake slow to fast 170184 Gobo 7 shake slow to fast 185255 Rot. gobo wheel cont. rotation slow to fast Gobo 1 rotation
170184 Gobo 7 shake slow to fast 185255 Rot. gobo wheel cont. rotation slow to fast Gobo 1 rotation
185255 Rot. gobo wheel cont. rotation slow to fast Gobo 1 rotation
Gobo 1 rotation
0.127 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
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
35.39 gobo 7
40.44 gaba 0
45.49 gobo 9
5054 gobo 10
5559 gobo 11
60.64 gobo 12
6569 gobo 13
7074 gobo 14
7579 gobo 15
8084 gobo 16
8591 Hole with spot shake slow to fast
9298 Gobo 1 shake slow to fast





3.TECHNICAL INFORMATION

SPECIFICATIONS:

1* 295W lamp, 8000 K, 1500 hours life span.

Input Voltage: AC90-260V 50/60Hz

Power Consumption: 390W

Control Signal: DMX512, master-slave and sound activated or auto operation (8 built-in programs)

Control Channel: 17/15/19 DMX channels USITT DMX-

512.

Dimensions: 379(D)*255(W)*585(H)mm Packing Dimensions:510(D)*470(W)*650(H)mm

Net Weight: 20kgs Gross Weight: 22kgs

FEATURES:

Low power consumption

Linear motorized zoom with Linear motorized zoom with 3-

27°beam mod, 7-36°spot mode

2.5m-15m electric focus

1 Double prism, 4+8 facet prism

0-100% Linear LED dimmer

Aperture effect: 5% -100% smooth adjustment of the focal length.

DMX512, master-slave and sound activated or auto operation

25T/sec high speed LED shutter/strobe effect with variable

Preset variable/random strobe and dimming pulse effect 2.4" TFT LCD touch display (320*240pix) with 4 control

buttons Powercon IN/OUT

3-Pin XLR connectors IN/OUT

IP20 protection rating

55dB at 3'dB rating

2*1/4 turn fastening Omega clamps

* Safety attachment point

MOVEMENT:

8/16 bit smooth and precise resolution for PAN/TILT movement

540°/630°/360°/ PAN and 270°/180°/90° TILT movement COLORS:

1 Color wheel with 11 colors plus open

GOBOS:

1 Static gobo wheel with 16 gobos plus open

1 Rotatable gobo wheel with 7 rotatable and interchangeable glass gobos plus open with speed adjustable, stream effect, dithering effect and rotatable

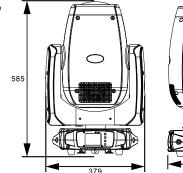
clockwise or anticlockwise Rotatable gobo wheel can be Gobo indexing

FUNCTION:

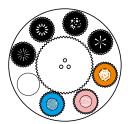
Improved optics and flat beam field

Variable direction rainbow effect with speed adjustable Fan cooling system

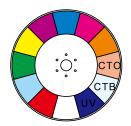
Constant temperature readout and management function -35°C ~ 45°C max ambient temperature



Gobo Wheel&Color Wheel:







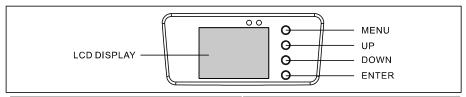
9.DMX PROTOCOL

Mode/Channel			Value	Function	
17CH 15CH 19CH					
				Pan	
1	1	1	0255	PAN Movement	
				Pan-fine	
2		2	0255	Fine control of Pan movement	
		3		Tilt	
3	3 2		0255	Tilt Movement	
				Tilt-fine	
4		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	
5	3	5	7079	Co l or 7	
			8089	Co l or 8	
			9099	Co l or 9	
			100109	Color 10	
			110127	Color 11	
			128189	Forwards rainbow effect from fast to slow	
			190-193	Color rotation stop	
			194255	Backwards rainbow effect from slow to fast	
		5		Color wheel (Mode 2)	
			04	Open / white	
			59	White + Color 1	
			1014	Color 1	
			1519	Color 1 + Color 2	
	3		2024	Color 2	
			2529	Color 2 + Color 3	
			3034	Color 3	
			3539	Color 3 + Color 4	
5			4044	Color 4	
			4549	Color 4 + Color 5	
			5054	Color 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	





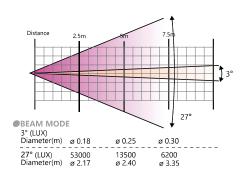
8.MENU OPERATIONS

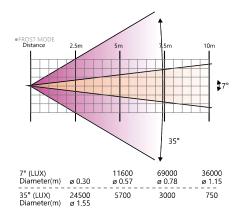


ME	NU	Description		
	Dmx Address	A001~AXXX		
		CH17		
	Channel Mode	CH15		
Function Mode		CH19		
	Auto Run	Internal Program1~9	Master/Alone	
	Music Control	Internal Program1~9	Master/Alone	
	Reset Default	Yes/No		
		Wire DMX		
	Signal Set	Wireless DMX		
		Reverse Pan (On/Off)		
		Reverse Tilt (On/Off)		
	Pan / Tilt	Select Pan 630/540/360		
Option		Select Tilt 270/180/90		
		Mic sensitivity 0~99%		
		OFF Signal Mode (On/Off)		
	UI SET	Half Color Wheel(On/Off)		
		Start Up Lamp (On/Off)		
	, , , , , , , , , , , , , , , , , , ,	Fan Protect(On/Off) xxxx H		
	Lamp Hours			
Information	Temperature	XXX°C/°F		
	Software Version	V1.0~V9.9		
	Fan Parameter	xxx MV xxx MA		
	Lamp	(On/Off)		
		Total Reset		
		Pan/Tilt Reset		
Manual Control	Reset	Color Reset		
Manual Control		Gobo Reset		
		Strobe Reset		
		The Others Reset		
	Channel	PAN=XXX		
ADVANCED	Calibration	PAN=XXX		
(Access Code 088) Clear Lamp Ti		Clear Lamp Time		

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

4.PHOTOMETRICS DIAGRAM





5. OPERATION INSTRUCTIONS

- FOS NItro BSW is for spot 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.).

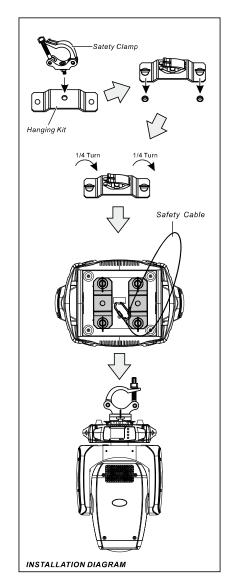
Always use and install the supplied safety cable as a safety measure to prevent accidental damage and/or injury in the event the clamp fails.

Mounting points:

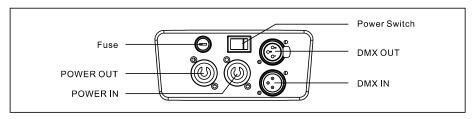
Overhead mounting requires extensive experience, including amongst others calculating working load limits, a fine knowledge of the installation material being used, and periodic safety inspection of all installation material and the fixture. If you lack these qualifications, do not attempt the installation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

