

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.

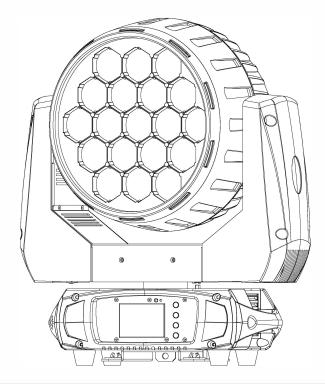
After replacing the air filters, reset the elapsed time counter in the menu "Information" (Information--->Air Filters--->Elapsed Time).

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

- 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 Wash Q19



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 choosing our FOS ProWash 19. 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)!



35				Green in pixel 4
აა			0255	Green in pixel 4 saturation control(0-100%
0.0				Blue in pixel 4
36			0255	Blue in pixel 4 saturation control(0-100%)
37				White in pixel 4
31			0255	White in pixel 4 saturation control(0-100%)
				Special function
			019	No function
			2029	No function
			3039	No function
			4079	No function
	22	16	8089	All Motor reset
			9094	SCAN Motor Reset
38			9599	ZOOM Motor Reset
30			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

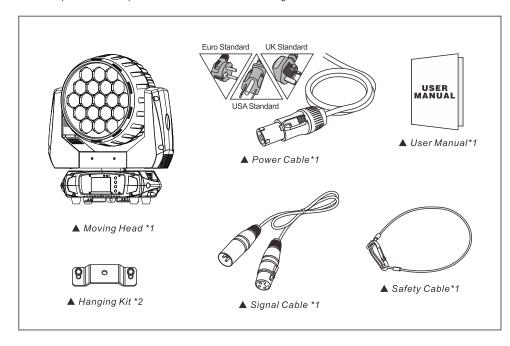




00		Red in Pixel 1
22	0255	Red in pixel 1 saturation control (0-100%)
23		Green in Pixel 1
23	0255	Green in pixel 1 saturation control (0-100%)
24		Blue in Pixel 1
24	0255	Blue in pixel 1 saturation control(0-100%)
25		White in pixel 1
20	0255	White in pixel 1 saturation control(0-100%)
26		Red in pixel 2
20	0255	Red in pixel 2 saturation control(0-100%)
27		Green in pixel 2
21	0255	Green in pixel 2 saturation control(0-100%)
28		Blue in pixel 2
20	0255	Blue in pixel 2 saturation control(0-100%)
29		White in pixel 2
20	0255	White in pixel 2 saturation control(0-100%)
30		Red in Pixel 3
30	0255	Red in pixel 3 saturation control (0-100%)
31		Green in pixel 3
31	0255	Green in pixel 3 saturation control(0-100%
32		Blue in pixel 3
32	0255	Blue in pixel 3 saturation control(0-100%)
33		White in pixel 3
	0255	White in pixel 3 saturation control(0-100%)
34		Red in Pixel 4
J4	0255	Red in pixel 4 saturation control (0-100%)

2.UNPACKING

The FOS ProWash 19 adopts 19*15W RGBW 4-IN-1 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 ProWash 19 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:

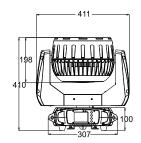
- 19*15W 4-IN-1 RGBW LEDs 50,000 hours life span
- Input Voltage: AC90-260V 50/60Hz
- Control Signal: DMX512, master-slave and sound activated or auto operation
- Control Channel: 16/22/38 DMX channel
- Power Consumption: 350W
- Dimensions:411(D)*280(W)*410(H)mm
- Packing Dimensions: 490(D)*280(W)*560(H)mm
- Net Weight: 11.2kg
- Gross Weight: 13.9kg

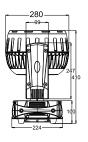
FEATURES:

- Low power consumption
- Specific optic lens of highly efficient elements integrated with glass tube
- Four groups controlled
- Fast, smooth and quiet motorized zoom with 6° -60° angle
- Color temperature Liner up and down in 2700K-8000K
- Even, soft edge and pure color mixing coverage
- Flicker free sources management
- 8/16 Bit smooth, fast and precise PAN/TILT movement
- 630°/540°/360°PAN optional and
- 270°/180°/90°TILT optional
- PAN/TILT reversible advantage
- PAN/TILT calibration available
- Scan position memory, auto reposition after unexpected movement
- 0-100% Smooth linear LED dimmer
- built-in default programs for easy operation
- <u>Different Kinds of pre-programmed macro</u> effects with variable speed
- Variable speed strobe effect with 1-25 flashes

per second

- Variable pusle and random effects
- Sound control with sensitivity adjustment
- 2.4" TFT LCD display (320*240pix) with 4 control buttons
- LCD display switch-off automatically after 60 seconds
- DMX signal monitoring indicator available
- Lower noise and efficient FAN cooling system
- Efficient low noise self adjusting fan cooling system
- Constant temperature readout and management function
- Over heat protection management
- Powercon IN/ OUT with power switch and fuse
- 3-Pin DMX connectors IN/OUT
- <u>DB rating@1M=54.18dB</u>
- IP20 protection rating
- -35°C ~ 45°C max ambient temperature
- 2*1/4 turn fastening Omega Clamps (Adaptable vertically and horizontally)
- 1*Safety attachment point
- CE (EMC/LVD) and RoHS certified







				Static patterns or patterns speed
				Static Patterns
			(If Patte	rns channel is in the interval 016 - 031)
			000015	static scene1
			016031	static scene2
			032047	static scene3
			048063	static scene4
			064079	static scene5
			080095	static scene6
			096111	static scene7
			112127	static scene8
			128143	static scene9
			144159	static scene10
21	21		160175	static scene11
			176191	static scene12
			192207	static scene13
			208223	static scene14
			224239	static scene15
			240255	static scene16
			Dynamic Patterns	
			(If Patte	rns channel is in the interval 032 - 255)
			000023	No function
			024137	Forward speed from zero speed to fast
				speed
			138141	Stop movement
			142255	Reverse speed from zero speed to fast
			174200	speed

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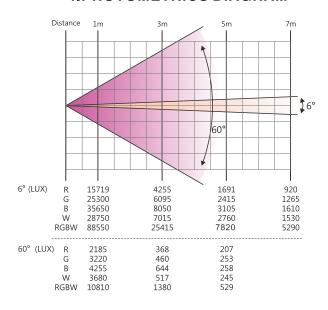




			Background color for patterns
		00	No Function
		113	Red
		1427	Green
		2841	Blue
		4255	White
		5669	Red+White
		7083	Green+White
		8497	Blue+White
		98111	Green+Blue
		112125	Red+Blue
		126139	Red+Green
18	18	140153	
		154167	
		168181	
		182195	
		196202	
		203209	
		210216	
		217223	
		224230	
		231237	
		238244	
		245251	
		252255	
			Background dimmer
	19		Choose Background color for
19			Dynamic/Static Scene,no function for
			Multicolor Scene
		000255	Background dimmer 0 – 100%.
			Patterns
		000015	No function
		016031	Static patterns
		032045	
		046059	Dynamic Scene2
		060073	Dynamic Scene3
		074087	Dynamic Scene4
		088101	Dynamic Scene5
		102115	Dynamic Scene6
20	20	116129	
-		130143	Dynamic Scene8
		144157	Multicolor Dynamic Scene1
		158171	
		172185	Multicolor Dynamic Scene3
		186199	
		200213	
		214227	,
		228241	·
		242255	
		242233	widilicolor Dynamic Sceneo

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4.PHOTOMETRICS DIAGRAM



5.OPERATION INSTRUCTIONS

- The FOS ProWash 19 is for beam&wash 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.).

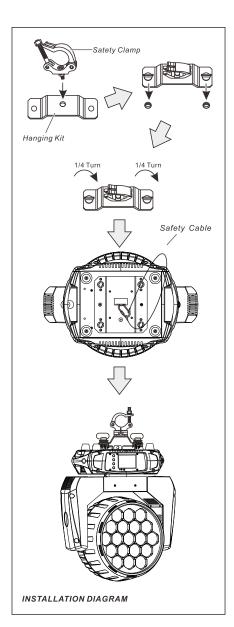
Always use and install the supplied safety cable as a safety measure to prevent accidental damage and/or injury in the event the clamp fails.

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 ProWash 19 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.



		r	1	<u>, </u>
15		15		Visual Tungsten Lamp
	15		015	No Function
			16255	Tungsten lamp effect is gradually enhanced
				Foreground color for patterns
			00	No Function
			113	Red
			1427	Green
			2841	Blue
			4255	White
			5669	Red+White
			7083	Green+White
			8497	Blue+White
			98111	Green+Blue
			112125	Red+Blue
			126139	Red+Green
16	16		140153	Green+Blue+White
			154167	Red+Blue+White
			168181	Red+Green+White
			182195	Red+Blue+Green+White
			196202	2700K
			203209	3200K
			210216	3500K
			217223	5000K
			224230	5500K
			231237	6000K
			238244	6500K
			245251	7000K
			252255	8000K
17				Foreground dimmer
	17	17		Choose Foreground color for
				Dynamic/Static Scene,no function for
				Multicolor Scene
			000255	Foreground dimmer 0 – 100%.



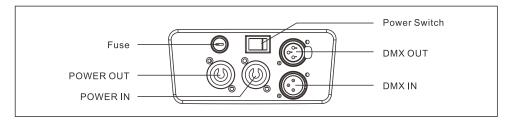




44	44	4.4		White	
11	11 11	11	0255	0-100% White dimmer from dark to bright	
40	2 12	40		Zoom	
12		12	0255	In(near)to out(far)	
				Virtual color	
			00	No Function	
			113	Red	
			1427	Green	
			2841	Blue	
			4255	White	
			5669	Red+White	
			7083	Green+White	
			8497	Blue+White	
			98111	Green+Blue	
			112125	Red+Blue	
			126139	Red+Green	
13	13	13	140153	Green+Blue+White	
			154167	Red+Blue+White	
			168181	Red+Green+White	
			182195	Red+Blue+Green+White	
			196202	2700K	
			203209		
			210216		
			217223		
			224230	5500K	
			231237	6000K	
			238244	6500K	
			245251	7000K	
			252255	8000K	
	14	14		Color Temp	
			015	No Function	
			1645	Below3200K	
			4675	3200K - 3500K	
14			76105	3500K - 5000K	
			106135	5000K - 5500K	
			136165	5500K - 6000K	
			166195	6000K - 6500K	
			196225		
			226255	7000K - 8000K	

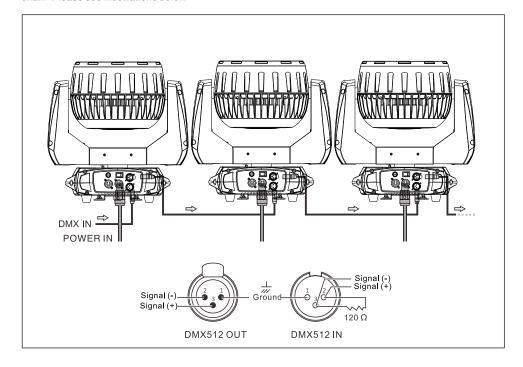
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7.CONTROL CONNECTION



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.

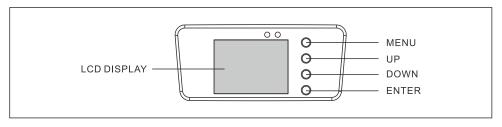
For installations where the DMX cable has to run a long distance or is in an electrically noisy environment, such as in a discotheque, it is recommended to use a DMX terminator. This helps in preventing corruption of the digital control signal by electrical noise. The DMX terminator is simply an XLR 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.





FOS tec

8.MENU OPERATIONS



		MENU	Description
	Dmx Address	A001~AXXX	DMX address setting
Function	Channel Mode	CH22	22Channel mode
Mode		CH16	16Channel mode
WIOUE		CH38	38Channel mode
	Auto Run	Internal Program1~8 Master/Alone	Auto run
	Music Control	Internal Program1~8 Master/Alone	Sound Control
	Reset Default	Yes/No	Reset Default
		Wire DMX	Wire DMX
	Signal Set	Wireless DMX	Wireless DMX
	J	Act WDMX & Out	Act WDMX & Out
		Reverse Pan (On/Off)	Reverse Pan
Option	Pan / Tilt	Reverse Tilt (On/Off)	Reverse Tilt
Option		Select Pan 630°/540°/360°	Pan Degree, default is 540
		Select Tilt 270°/180°/90°	Tilt Degree, default is 270°
		Mic SEN 0~99%	Sensitivity Setting
	UISET	OFF Signal Mode (On/Off)	OFF at original status and ON at reset status when no DMX signal
	Temperature	XXX°C/°F	Current Temperature
Information	Software Version	V1.0~V9.9	Software Version
		Total Reset	Total Reset
Manual	Reset	Pan/Tilt Reset	Pan/Tilt Reset
Control		Zoom Reset	ZoomReset
00111101	Channel	PAN=XXX	Manual Control Channel
Advanced	Calibration	PAN=XXX	Calibration (Code:088)
Access Code 088)			

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9.DMX PROTOCOL

Mode/Channel		Value	Function	
38	22	16		
1	1	1		Pan
ı	ı	ı	0255	PAN Movement
2	2	2		Pan -fine
			0255	Fine control of Pan movement
3	3	3		Tilt
	3	<u> </u>	0255	Tilt Movement
4	4	4		Tile -fine
	7		0255	Fine control of Tilt movement
				Speed pan/tile
5	5	5	0225	max to min speed
		5	226235	blackout by movement
			236255	no function
6	6	6		Dimmer
	Ů		0255	Dimmer 0%100%
				Shutter
			031	Shutter closed
		7	3263	shutter open
			6495	Strobe effect slow to fast
7	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
8	8	8		Red
<u> </u>			0255	0-100% Red dimmer from dark to bright
9	9	9		Green
			0255	0-100% Green dimmer from dark to bright
10	10	10		Blue
10	10		0255	0-100% Blue dimmer from dark to bright