



# **FOS Bubble FOG**

## ***USER MANUAL***



## **OPERATION MANUAL**

Thank you for buying this FOS product. To take full advantage of all possibilities and for your own safety, please read these operating instructions very carefully before you start using this unit.

## **FEATURES**

1. Powerful bubble and fog machine combination with 4 output nozzles.
2. Each effect can be used individually or combined to produce bubbles filled with fog.
3. Equipped with a 4 fans to blow the bubbles and/or smoke meters away.
4. Controllable via 4 DMX channels.
5. Wireless remote control (included).
6. Build-in timer, Manual activation.
7. Uses regular water based Bubble Liquid and Fog Liquid.

## **BEFORE USE**

1. Before you start using this unit, please check if there's no transportation damage. Should there be any, do not use the device and consult your dealer first.
2. Important: This device left our factory in perfect condition and well packaged. It is absolutely necessary for the user to strictly follow the safety instructions and warnings in this user manual. Any damage caused by mishandling is not subject to warranty. The dealer will not accept responsibility for any resulting defects or problems caused by disregarding this user manual.
3. Keep this booklet in a safe place for future consultation. If you sell the fixture, be sure to add this user manual.

### **Check the contents:**

Check if the carton contains the following items:

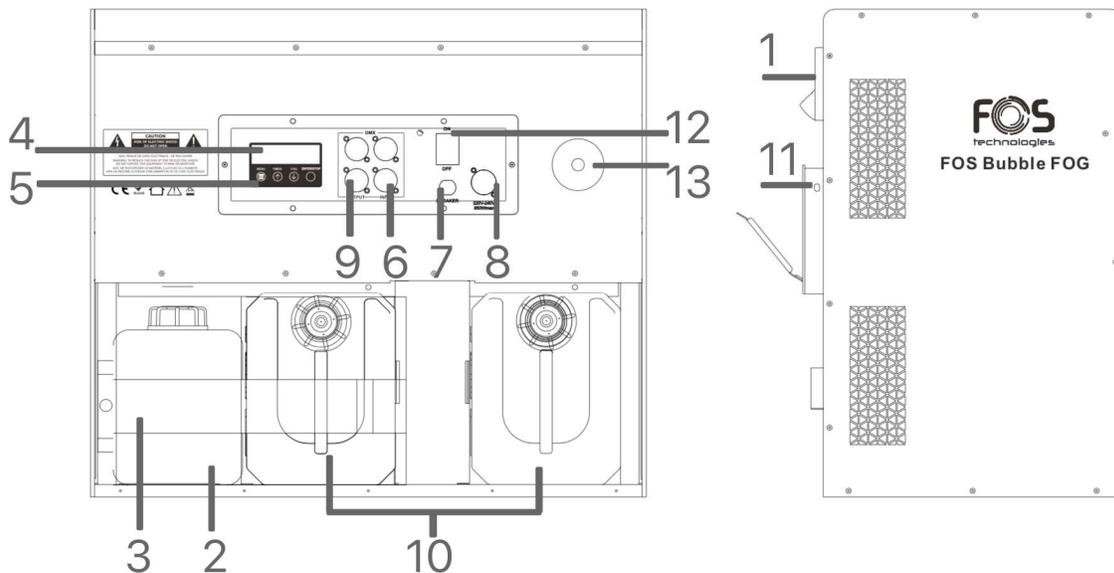
1. Operating instructions.
2. FOS Bubble fog.
3. Power cable.
4. Wireless remote.

## **SAFETY INSTRUCTIONS:**

1. To reduce the risk of electric shock, do not remove the top cover.
2. RISK OF ELECTRIC SHOCK, DO NOT OPEN.
3. No user-serviceable parts inside. Refer servicing to qualified service personnel only.
4. This symbol means: Read instructions.
5. The minimum distance from objects. The minimum distance between fogger output and objects must be more than 1 meter.
6. To protect the environment, please try to recycle the packing material as much as possible.
7. To prevent fire or shock hazard, do not expose this appliance to rain or moisture.
8. To avoid condensation to be formed inside, allow the unit to adapt to the surrounding temperatures when bringing it into a warm room after transport. Condense sometimes prevents the unit from working at full performance or may even cause damages. This unit is for indoor use only.
9. Don't place metal objects or spill liquid inside the unit. Electric shock or malfunction may result. If a foreign object enters the unit, immediately disconnect the mains power.
10. Locate the unit in a well ventilated spot, away from any flammable materials and/or liquids.
11. Don't cover any ventilation openings as this may result in overheating.
12. Prevent use in dusty environments and clean the unit regularly.
13. Keep the unit away from children.
14. Inexperienced persons should not operate this device.

15. Maximum safe ambient temperature is 40°C. Don't use this unit at higher ambient temperatures.
16. The units' surface temperature may reach up to 85°C. Don't touch the housing with bare hands during its operation.
17. Make sure to always place the unit on a stable surface, never install the fogger above the audience, a little liquid can always drip from the fog output.
18. Allow the device about 10 minutes to cool down before you start servicing.
19. Always unplug the unit when it is not used for a longer time or before you start servicing.
20. Check that the available voltage is not higher than the one stated on the rear panel of the unit.
21. The power cord should always be in perfect condition. Switch the unit immediately off when the power cord is squashed or damaged. It must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
22. Never let the power-cord come into contact with other cables!
23. This unit must be earthed in order to comply with safety regulations. In order to prevent electric shock, do not open the cover.
24. **Never** repair a fuse or bypass the fuse holder. **Always** replace a damaged fuse with a fuse of the same type and electrical specifications!
25. In the event of serious operating problems, stop using the fixture and contact your dealer immediately.
26. The housing must be replaced if they are visibly damaged.
27. Please use the original packing when the device is to be transported.
28. Due to safety reasons it is prohibited to make unauthorized modifications to the unit.

## DESCRIPTION:



1.**NOZZLE:** Fog and bubble output nozzle..

**WARNING: HOT powerful output! Keep a minimum distance of 1m.**

2.**FOG FLUID RESERVOIR:** to be filled with CE-certified smoke fluid. Make sure that the fog fluid container is never empty during operation; this will damage the pump of the fogger.

3.**RESERVOIR PLATE:** used to fix the reservoir in the machine.

4.**DISPLAY:** shows the various menus and the selected functions.

**5.CONTROL PANEL:**

> **MENU button:** press several times to navigate through the option menu.

> **UP button:** used to increase the selected value.

> **FOG/DOWN button:** used to decrease the selected value. When no dmx cable is connected, this button will start the manual working mode.

> **ENTER/STOP button:** used to confirm the selected value. When no dmx cable is connected, this button will stop the manual working mode

6.**DMX INPUT:** 3-pin +5-pin male connector, used to connect the fogger directly to a DMX-controller or to the previous unit in the DMX chain.

7.**BREAKER:** first locate and solve the problem that caused the breaker to be activated. When the problem is solved, push the button to reset the breaker.

8.**MAINS CONNECTOR:** insert the supplied mains cable here and connect it to in a mains wall socket with earth connection.

9.**DMX OUTPUT:** 3-pin + 5-pin female connector, used to connect the fogger with the next unit in the DMX chain.

10.**BUBBLE FLUID RESERVOIR:** 2 x5L, pls fill bubble fluid into this 2 fluid tanks.

11. **FAN OUTPUT:** air flow direction.

12.**POWER SWITCH:** power on/off, please always turn power off when it is not in using.

13.**WIRELESS REMOTE:** wireless remote signal receiver.

## **MENU SETTINGS:**

### **READY TO WORK**

This message will be shown on the display as soon as the machine is ready to be used. When the unit is just started up, the heating element of the fogger needs some time to warm up until it reaches its ideal working temperature. Also the air reservoir needs time to be put under pressure.

### **DMX512 ADDRESS**

**Used to set the start address when the unit is used in a DMX chain.**

Press the MENU button until DMX512 ADDRESS is shown on the display. Use the DOWN and UP buttons to change the DMX address.

Once the correct address is shown on the display, press the ENTER button to confirm.

### **FLUID SENSOR**

**Used to switch the fluid sensor ON or OFF. We strongly advise you to have the fluid sensor ON to avoid to use the unit when the fog fluid container is empty (what can damage the unit)**

1. Press the MENU button until FLUID SENSOR is shown on the display.

2. Use the DOWN and UP buttons to change to select ON (sensor ON) or OFF (sensor OFF/so detection).

3. Once the correct mode is shown on the display, press the ENTER button to confirm.

## GENERAL OPERATING INSTRUCTIONS

### **WARNING:**

**the unit has a HOT and powerful output ! Keep a minimum distance of 1m .**

- 1.Put the fog bubble machine on a flat and very stable surface. Make sure that nobody can put their hands just in front of the output. The fog is very hot and can cause serious burning!!!
- 2.Make sure the fog & bubble liquid tank is not empty. Always use good quality fog liquid to fill up the tank. Close the tank immediately to prevent dirt to enter the reservoir!
- 3.Make sure to plug the fogger in a mains wall socket with earth connection.
- 4.Switch the fog bubble machine on and wait for about 3 to 4 minutes.(warm up time).

### **WARNING:**

**NEVER use the machine with an empty reservoir. This can damage the pump !**

## DMX-OPERATION:

**Important:** The electrical installation should be carried out by qualified personal only, according to the regulations for electrical and mechanical safety in your country.

### **Electrical installation:**

1.The DMX-protocol is a widely used high speed signal to control intelligent light and other equipment. You need to "daisy chain" your DMX controller and all the connected units with a good quality balanced cable.

2.Both XLR-3pin and XLR-5pin connectors are used, however XLR-3pin is more popular because these cables are compatible with balanced audio cables.

Pin layout XLR-3pin: Pin1=GND~Pin2=Negative signal (-)~Pin3 = Positive signal (+)

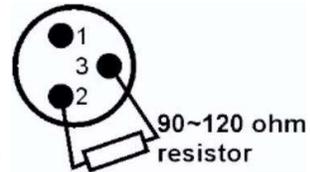
Pin layout XLR-5pin: Pin1=GND~Pin2=Negative signal (-)~Pin3=Positive signal (+) ~ Pins4+5 not used.

3.To prevent strange behavior of the light effects, due to interference, you must use a90Ω to 120Ω terminator at the end of the chain. Never use Y-splitter cables, this simply won't work!

4.Make sure that all units are connected to the mains.

5.Each unit in the chain needs to have its proper starting address so it knows which

commands from the controller it has to decode. In the next section you will learn how to set the DMX addresses.



### **DMX Channel detail:**

Channel	Value	Function	Remark
1	000-255	Haze output	000-005: OFF 006-255: 1%-100%
2	000-255	Bubble output	000-005: OFF 006-255: ON
3	000-255	Fan speed	000-005: OFF 006-255: 1%-100%

4	000-255	Clean mode	000-005: OFF 006-255: ON
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### Wireless remote control:

Please disconnect dmx cable before using the wireless remote.

Wireless remote, **Button A**: start working.

Wireless remote, **Button B**: stop working.

### IMPORTANT:

1. **DO NOT** mix bubble fluid with fog fluid.
2. **DO NOT** fill bubble fluid into fog fluid tank.
3. **DO NOT** fill fog fluid into bubble fluid tank.
4. **CLEAN** the bubble tube system by pure water after each time use. Users need to put bubble liquid's tube into a filled 0.5L-1L water bottle, and turn on the bubble output to let the pure water go through the bubble tube system to clean all bubble liquid out of the bubble tube.

### OVERHEAD RIGGING

Important: The installation must be carried out by qualified service personal only. Improper installation can result in serious injuries and/or damage to property. Overhead rigging requires extensive experience! Working load limits should be respected, certified installation materials should be used, the installed device should be inspected regularly for safety.

1. Make sure the area below the installation place is free from unwanted persons during rigging, de-rigging and servicing.
2. Locate the fixture in a well ventilated spot, far away from any flammable materials and/or liquids. The fixture must be fixed at least 50cm from surrounding walls.
3. The device should be installed out of reach of people and outside areas where persons may walk by or be seated.
4. Before rigging make sure that the installation area can hold a minimum point load of 10 times the device's weight.
5. Always use a certified safety cable that can hold 12 times the weight of the device when installing the unit. This secondary safety attachment should be installed in a way that no part of the installation can drop more than 20cm if the main attachment fails.
6. The device should be well fixed; a free-swinging mounting is dangerous and may not be considered! Don't cover any ventilation openings as this may result in overheating.
7. The operator has to make sure that the safety-relating and machine-technical installations are approved by an expert before using them for the first time. The installations should be inspected every year by a skilled person to be sure that safety is still optimal.

### MAINTENANCE

Switch off the unit, unplug the mains cable and wait until the unit has been cooled down. During inspection the following points should be checked:

1. All screws used for installing the device and any of its parts should be tightly fastened and may not be corroded.
2. Housings fixations and installations spots (ceiling truss, suspensions) should be totally free from any deformation.
3. The mains cables must be in impeccable condition and should be replaced immediately when

even a small problem is detected.

**CLEANING THE MACHINE:**

To prevent obstructions in the heater, pump and tubes, the fogger should be cleaned on a regular basis: every 100h of continuous operation is a good reference.

Attention: We strongly recommend internal cleaning to be carried out by qualified personnel!

**SPECIFICATIONS**

This unit is radio-interference suppressed. This product meets the requirements of the current European and national guidelines. Conformity has been established and the relevant statements and documents have been deposited by the manufacturer.

This device has been designed to produce decorative effect lighting and is used in light show systems.

Mains Input: 220-240V.50/60Hz

Heater: 950 Watt

Max. Power Consumption: 1000 Watt

DMX Channels: 4

Breaker: 10A/250V

Warm up time: 4 min

Tank capacity: 2.5L fog fluid tank, 2x5L bubble fog tank

Machine dimension: 535 x 290 x 530 mm

Packing dimension: 600 x 460 x 620 mm

Net weight: 22 kg

Gross weight: 23.5kg

All the information is subject to change without prior notice  
You can download the latest version of this user manual on our website:  
[www.fos-lighting.eu](http://www.fos-lighting.eu)