

# FOS

technologies

## FOS Super Jet



# PRODUCT SPECIFICATIONS

## TECHNICAL SPECIFICATION

**Voltage:** 220/240 Volt AC, 50/60 Hz.

**Power Consumption:** 1500 Watt.

**Heating element:** 3100 Watt

**Light Source:** Section A: 9x 9Watt tricolor LEDs & section B: 33x 9Watt tricolor LEDs.

**Control:** Wireless remote, DMX

**DMX Channels:** 6, 9

**Heat-up time:** 9 minutes.

**Tank capacity:** 3,8 L.

**Fluid consumption:** 75 ml / 10 seconds.

**Max. output height:** 15 m

**DMX connectors:** 3 & 5 pin XLR

**Protection Class:** IP20 (for indoor use only)

**Dimensions:** 480 x 390 x 310 mm

**Packing dimensions:** 580 x 470 x 930 mm

**Net weight:** 21,3 Kg.

**Gross weight:** 23,5 Kg.

## SAFETY WARNING

- If the device has been exposed to temperature changes due to environmental changes, do not switch it on immediately. The arising condensation could damage the device. Leave the device switched off until it has reached room temperature.
- It is essential that the device is earthed. A qualified person must carry out the electric connection.
- Make sure that the available voltage is not higher than stated on this manual.

- Make sure the power cord is not crimped or damaged. If it is damaged, ask your dealer or authorized agent to replace the power cord.
- 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.
- During initial start-up, some smoke or smell may arise. This is normal and should decrease gradually.
- DISCONNECT DEVICE: Where the MAINS plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.

## CAUTION

1. Be very careful during installation. Since you will be working with a dangerous voltage you can suffer a life threatening electric shock when touching live wires.
2. Please be aware that damages caused by manual modifications to the device are not subject to warranty. Keep away from children and non-professionals.
3. The Fog machine doesn't include any spare parts for repair, please check if all the parts are well installed and screws are fitted tightly before operating. Do not use the fog machine when the cover is open.

## General Guidelines

- This device is only allowed to be operated with an alternating current of AC110~230V/50Hz and was designed for indoor use only.
- Do not shake the device. Avoid brute force when installing or operating it.
- Operate the device only after having familiarized yourself with its functions. Do not permit operation by person not qualified for operating the device. Most damages are the result of unprofessional operation.
- Please use the original packaging if the device is to be transported.
- For safety reasons, please be aware that all modifications on the device are forbidden. Furthermore, any other operation may lead to short-circuit, burns, electric shock, lamp explosion, crash, etc. If this device will be operated in any way different to the one described in this manual, the product may suffer damages and the guarantee becomes void.
- When you use the fog machine on a wooden floor or ground with carpet, the machine should never be directly in contact with the ground. The machine should keep a distance with the ground of 50cm at least. It's not allowed to put flammable and explosive objects within 5 meters.
- Before operation, please make sure the local mains power matches the rated input voltage. Please refer to the rating label on the rear side of the unit.
- Before filling the fog liquid, please unplug the unit from the mains.
- To prevent short circuits, please don't let fog liquid flow into the inner part of the machine before filling, you can also take out the liquid bottle and fill in the fog liquid outside the unit.
- The fog machine must be installed on the ground. It's not allowed to slope the unit or place it upside down After use, switch the fog machine off and unplug it from the mains.

- The fog machine isn't waterproof. If moisture or fog liquid enters inside the machine, you must unplug it immediately from the mains and contact your dealer.
- It's forbidden to spray directly towards persons. Keep far away from flammability and explosive objects.
- The fog spray is very hot, please keep a distance of at least 5 meters when using it.
- Please don't touch the surface of the fog machine during the use because the housing will reach 40-80°C.
- When the machine doesn't work, please check if the fuse is burnt out or not. If it is, replace it by an identical fuse, find out the fault and restart the machine. But please note: the repair must be handled by professional.

## PROTECTION AGAINST SOLIDS AND WATER

### Only for IP-rated fixtures

The protection level of a housing is set by applied standards. For classification there is used the IP-Code. It contains the declaration „IP“and two following numbers. The first number characterizes the protection against harmful effects of solids, the second is rating the water protection. It is important to distinguish whether encapsulation and harmful effect! There can be housing that is not capsuled completely but still avoids harmful effect of solids or water.

### PROTECTION EXAMPLES:

**IP20:** Protection against intruding objects >12,5mm „Finger protected “; No waterproofing. **TYPICAL PROTECTION FOR INDOOR USE FIXTURES**

**IP33:** Protection against intruding objects >2,5mm; Falling water within an angle of 60° has no harmful effect **TYPICAL PROTECTION OF LED-LIGHTS USING RECESSED POWERCON AND DMX SOCKET.** This protection is linked to the mounting position of the fixture and always refers to typical mounting situation like a Floor spot used standing on the ground.

**IP54:** complete protection against solids and low-pressure water from any side **THIS TYPE OF FIXTURES CAN BE USED UNDER NORMAL OUTDOOR CONDITIONS.**

**IP65:** shielded against dust and pressurized water from any side. **TYPICAL PROTECTION FOR OUTDOOR RATED EVENTFIXTURES USING WATERPROOFED POWER AND SIGNAL LINK.**

**IP67:** shielded against dust and protected for accidental briefly submerge. **PROTECTION AGAINST ACCIDENTIAL SUBMERGING ON TEMPORARY FLOODED AREA.**

## TEMPORARY USE

Event equipment is designed for temporary use. This are typical purpose as concerts, festivals, theatre, clubs and disco use and referable venues. Long-term use, specially under outdoor conditions and fixed outdoor installation can bring damage in aging materials and affect the coated surface. Sealings as well as cables are made from rubber material and will age by long-term UV-emission as sunlight and should be checked frequently.

## LIMITATIONS OF IP PROTECTION

IP-Rating doesn't mean unlimited outdoor use and protection against any kind of environmental influence! Especially sunlight and included UV will bring accelerated aging. Some fixtures need special parts or processes to fit the rated IP-Protection, like mounting covers or caps or similar. Sealings and other plastic or rubber materials are aging parts. They must be checked frequently to ensure the protection and safety of the fixtures. Also specified torque of screws can affect protection!

## Installation

The **FOS JET 1500**, can be installed on the floor for upright smoke jets, or to be hanged upside down from truss. You must change the direction of the tank if you are about to install the machine upside down. Remove the four screws of the base plate, remove it and place it on the top of the device. Use the 3 M10 fixation points to install hooks / clamps, in order to hang the device upside down from the truss.



**NOTE!** If the signal cable is over 60 m between the DMX512 controller and fixture or between two fixtures, then a DMX signal amplifier is needed as well.

## Menu Screen

You can easily navigate through menu's options with the four buttons under the screen. Navigating in the menu is simple! With the Up / Down buttons, you are moving through menu's choices, pressing Enter, you are entering the sub menu of the option you have chosen, with the Up / Down buttons you're moving through the sub menu's options, with Enter, you are confirming your choice. The **FOS Jet 1500** offers the following options:

**HEAT:** The device is warming up

**Addr:** Press **ENTER** to choose between **6 or 9** control channels. Confirm with **ENTER** and set the DMX address.

**reno:** Set the channel mode for use with the supplied remote control (**1 to 8**). While pressing **ENTER** to confirm the channel of your choice, you can select your desired color or program:

- Co 0 – No color
- Co 1 – Red
- Co 2 – Yellow
- Co 3 – Green
- Co 4 – Cyan
- Co 5 – Blue
- Co 6 – Magenta
- Co 7 – White Color
- Pr 1 – RGB Color fades
- Pr 2 – Random Color fades
- Pr 3 – RGB Color changes
- Pr 4 – Random Color changes

*The color is activated only when smoke output is activated.*

**CuSt:** Create your custom color by adjusting the R, G, B values with the Up / Down buttons.

- R- 0 - 255
- G- 0 - 255
- B- 0 - 255
- NACo – select the color for the second LED section. You can select 6 different colors and Off.

## Channel Modes

### 6 Channels

1. **Fog Output**
  - **0 – 5** Off
  - **6 – 255** On
2. **Red:** Red color 0 – 100 dimming
3. **Green:** Blue color 0 – 100 dimming
4. **Blue:** Green color 0 – 100 dimming
5. **Second Section Colors:**
  - **0 – 15** Off
  - **16 – 50** Red
  - **51 – 85** Yellow
  - **86 – 120** Green

- **121 – 155 Cyan**
- **156 – 190 Blue**
- **191 – 225 Magenta**
- **226 – 255 White**

**\*\* Color output is activated temporary when you adjust the values and after few seconds, goes off. It's been activated again, together with the smoke output.**

**6. Second Section Color changing:**

- **0 – 15:** Off
- **16 – 255:** Color Changing with gradual speed from slow to fast.

## 9 Channels

**1. Fog Output**

**2. White Dimmer:** White color (RGB full on) gradual dimming 0 – 100%

**3. Red:** Red color 0 – 100 dimming

**4. Blue:** Blue color 0 – 100 dimming

**5. Green:** Green color 0 – 100 dimming

**6. Random color strobe:**

- **0 – 15** Off
- **16 – 255** Random color strobing with adjustable speed from slow to fast

**7. Color palette / Macros:**

- **0 – 15** Off
- **16 – 156** Static colors
- **157 – 196** RGB Color fade
- **197 – 216** RGB Color change
- **217 – 255** 7 Color change

**8. Second Section Colors:**

- **0 – 15** Off
- **16 – 50** Red
- **51 – 85** Yellow
- **86 – 120** Green
- **121 – 155** Cyan
- **156 – 190** Blue
- **191 – 225** Magenta
- **226 – 255** White

**9. Second Section Color changing:**

- **0 – 15:** Off
- **16 – 255:** Color Changing with gradual speed from slow to fast.

## Wireless Control

Wireless remote has 8 buttons. You can choose a color for each remote button, via smoke machines menu.

## Battery replacement

If the range of the remote-control decrease, the battery is probably exhausted and must be replaced. For this purpose, take off the housing cover and remove the used battery. Insert a fresh 12V battery, type 23A as indicated in the battery compartment and refit the housing cover.

## General Information

### Replacing a fuse:

Always disconnect the fixture from main power before replacing a fuse. Use only the appropriate fuse, with the same type and rating. A fuse with different rating, can damage the fixture in case of failure.

### Risk of electric shock and / or fire:

The fixture must be earthed, supplied always with its nominal voltage and cleaned periodically from dust. For cleaning use only, a moist cloth. Never use liquids or force water. After cleaning, let the fixture dry before use.