



## FOS Cold Sparkle



# PRODUCT SPECIFICATIONS

## TECHNICAL SPECIFICATION

**Voltage:** 110 / 220 Volt AC, 50 / 60 Hz.

**Power Consumption:** 500 Watt.

**Output height:** 1 to 5 meters, DMX controllable.

**Grain capacity:** about 250g.

**Operating temperatures:** -20°C to 50°C.

**Control / Operation:** DMX512.

**Protection Class:** IP20 (not protected against rainy / humid weather conditions).

**Width:** 275 mm

**Depth:** 230 mm

**Height:** 325 mm

**Weight:** 9,4 Kg

**Use FOS Metal Sparkle consumables.**

**Consumable type:** Granulated titanium alloy grains.

**Consumption:** over 15 minutes per 200 grams of powder. It depends also from the adjusted Sparkle height output.

## Notes:

- ✓ There is no limitation of using the consumables (no locking safety mechanisms).
- ✓ No explosive content.
- ✓ No uncomfortable / toxic pyrotechnic smells.
- ✓ Sparkles created in much lower temperature in comparison with pyrotechnic sparkle or flame effects.

## 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 Sparkle 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 Sparkle 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.

- 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.
- The Sparkle machine must be installed on the ground. It's not allowed to slope the unit or place it upside down. After use, switch the machine off and unplug it from the mains.
- The Sparkle machine isn't waterproof. If moisture or other liquid enters inside the machine, you must unplug it immediately from the mains and contact your dealer.
- 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 Cold Sparkle**, can be installed on the floor, in vertical position.

## Menu Screen

With the **FOS Cold Sparkle** up and down buttons, you can choose only the DMX address of the device.

When the heating is activated via the 1<sup>st</sup> DMX channel, the screen will show the actual temperature of the heating element. The first heat up may take 2 or 3 minutes, but after that, the device can produce sparkles continuously without reheating.

## DMX Channels

## 2 Channels

1. **Heating:** activates the heating of the device.
2. **Sparkle output:** 0 – 255 (from zero, lower, to higher)

# 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 after every use. For cleaning use only, a moist cloth. Never use liquids or force water. After cleaning, let the fixture dry before use.