

SMOKE JET

SF-S3000

USER MANUAL



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- ★ Please read this manual carefully before use.
- ★ This manual contains the warranty card, please keep it safe.

DISCLAIMER

Please read the manual carefully before installing and using this product. Failure to read or comply with this manual may result in injury to products and personnel, and Spark Fabrica shall not be responsible for this. This product is a professional machine, we do not assume any responsibility for accidents or losses caused by the use or maintenance of this product by personnel without professional training and permission. The information contained in the Manual and the product specifications are subject to change without notice, and we assume no responsibility for any errors or omissions. Our company reserves the right to modify the Manual at any time.

PREFACE

This manual includes warning, caution and notice concerning the safe operation of equipment. These warning caution and notice come with the following icons. Please read them carefully!

⚠ WARNING

This icon indicates a dangerous situation that, if not avoided, may result in death or serious injury.

⚠ CAUTION

This icon indicates a warning that, if not avoided, may result in mild to moderate injuries.

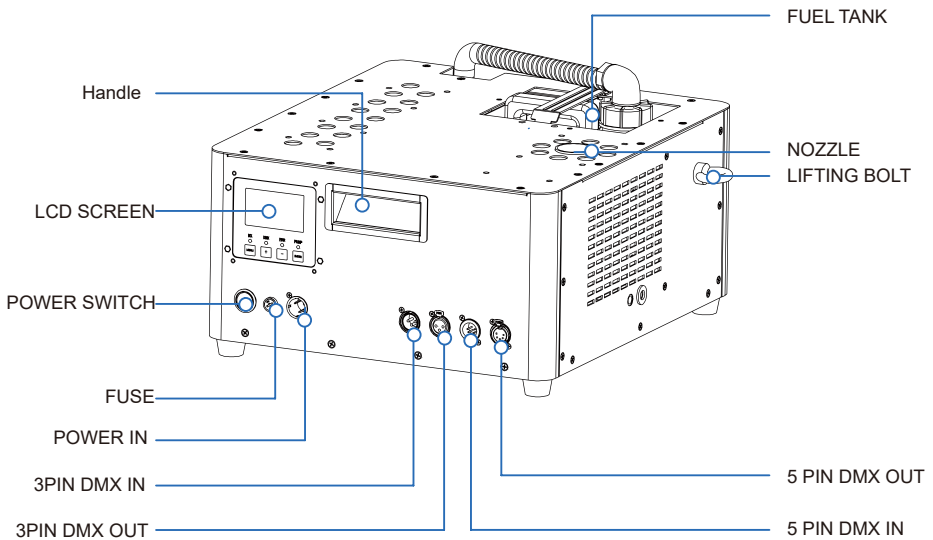
NOTICE

This icon indicates precautions that, if not followed, may affect the effectiveness of use.

1 PRODUCT INTRODUCTION

SMOKE JET S3000 is Spark Fabrica first generation of smoke FX device based on safe liquid consumables. Smoke Jet produce super volume of quick disappear smoke, designed with built in fuel tank, it enables the Smoke Jet SF-S3000 super ability to replace the normal Co₂ jet which needs co₂ tank and connection hose. SMOKE JET SF-S3000 can be widely used various events like concerts, sports events, and night clubs etc.

1.1 PRODUCTION OVERVIEW



1.2 PRODUCT ACCESSORIES

1.6 Meter Power Plug or 3 Meters Power Pair Cable
3 Meter DMX Pair Cable
User Manual

NOTICE Open the Package carefully and check to make sure the goods are in good condition.

1.3 SPARK FABRICA LIQUID OIL

SF-S special fast-dispersing professional Liquid oil

⚠ WARNING Only the consumables provided by Spark Fabrica are allowed to used, Spark Farbica shall not be liable for any damage for machines personnel and property caused by the use of consumables not provided by the company.

1.4 ADVANTAGES

★ Dual Output Nozzle, High Volume Smoke;

★ Immediate Effects Stop, No Smoke Leakage

★ 23*3w Rgb Led, Adjustable Duration.

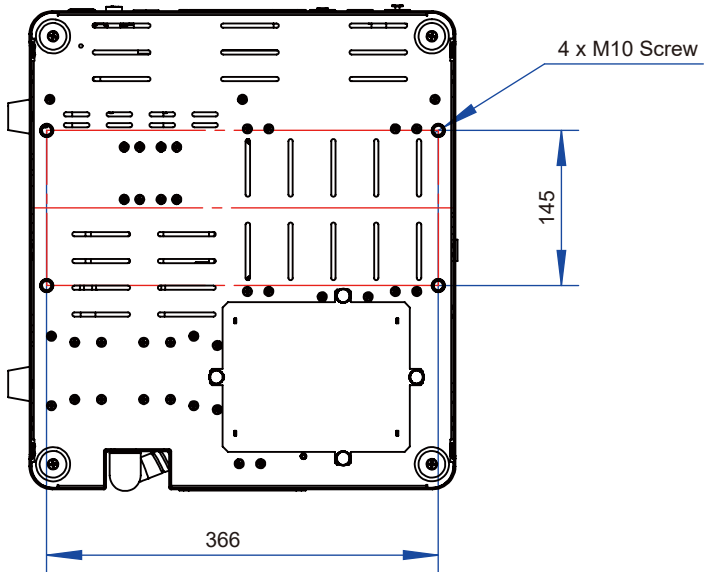
★ Specially Designed Liquid Consumables, Heavy Smoke And Quick Disappear.

★ Run Out Liquid Alert, Over Temperature Alert.

2 SPECIFICATIONS

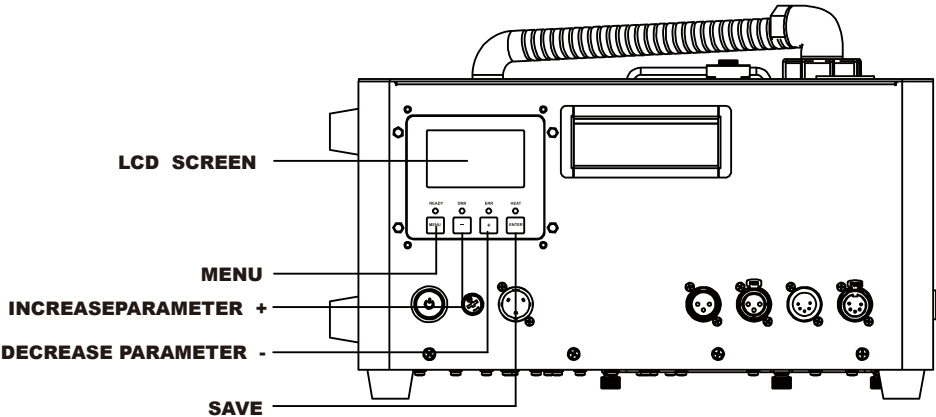
Identification	Manufacturer	SPARK FABRICA
	Name	SMOKE JET
	Model	SF-S3000
AC Power	Input Voltage&frequency	100-120V, 60HZ 200-240V, 50HZ
	Constant Current	18.1A,100-120V / 13.2A,200-240V
	Nominal Total Power Consumption	25A,100-120V / 20A,200-240V
	Power Consumption	3000W/2000W
	Led Power	3W*23PCS
Connector	Power Input Connector	SEETRONIC
	Dmx Signal Interface	3PIN&5PIN
Heating	Heating Time	<8min
Hooper	Capacity	3L
	Split Hooper	N/A
	Effect Height	15m
	Consumption	6ML/S
	Maximum Duration Time	8 S
	Maximum Height	15M
Control	Smoke Consumption	96000cuft/min
	Control	Protocol
	Dmxchannel	1/11
	Power Cable	SEETRONIC (1.6m)
Accessories	Remote	Optional
	DMX Cable	√ 3m
	Hook	×
	Safety Ring	×
	Bottom Screws	√
	120Ωfuse	Optional
	CE	√
Weight	ROHS	√
	N.W	30kg
	G.W(1)	76kg
Dimensions	G.W(2)	76kg
	Machine Dimension	450mm*420mm*245mm
	2 unit flight case size (1)	680mm*630mm*690mm
Consumption	2 unit flight case size (2)	1135mm*531mm*493mm
	Consumption	SF-S

2.1 BOTTOM SCREWS INSTALLATION



3 ON-SCREEN OPERATING INSTRUCTIONS

3.1 BACK PANEL INTRODUCTION



3.2 KEY AND LED LIGTHS INSTRUCTIONS

READY

Device Readiness Indication: Flashing indicates it is heating up but has not yet reached the set temperature. Always-on light indicates that the machine's chip temperature has reached the smoke requirement.

DMX

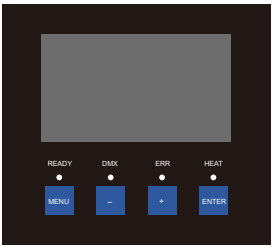
DMX Input Mode Indication: Always-on indicates that a DMX signal has been received

ERR

When there is a problem with the machine, this indicator light is always on and the LCD screen displays an error message.

HEAT

Power and heat indicator. Always on indicates heat in progress



MENU

Menu button, short press to enter menu setting.

-

Decrease Parameter, button for decreasing the set value or switching modes OFF/ON. Manual spraying.

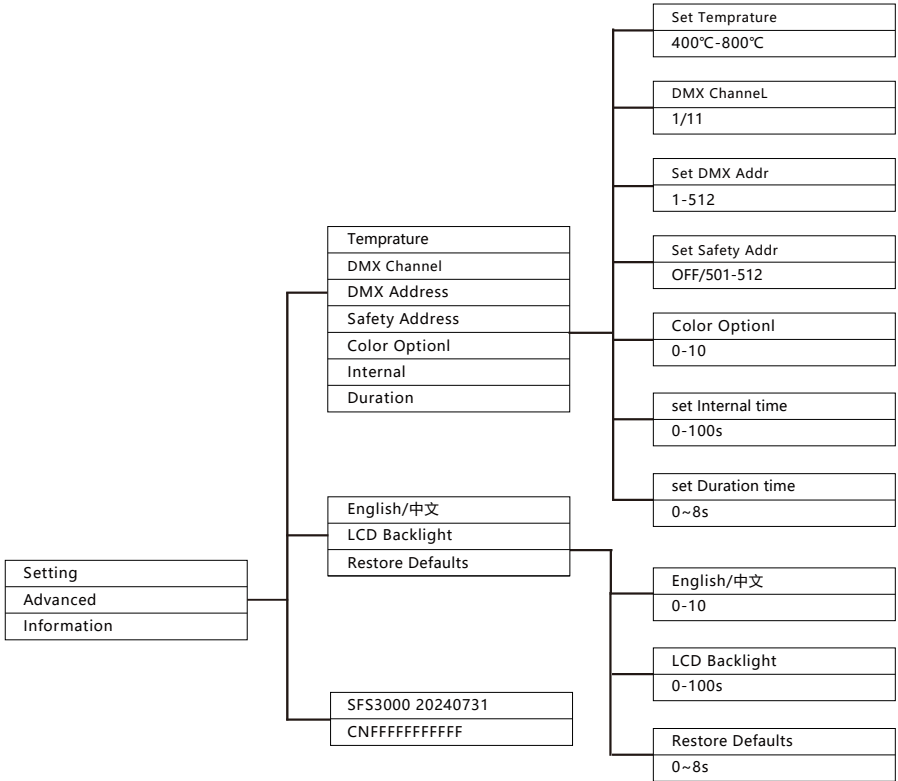
+

Increase Parameter, button for increasing the set value or switching modes OFF/ON. Timed spraying.

ENTER

Save button for saving the change after setting. Stop manual spraying.

3.3 MENU SETTINGS



Color Setting: 0: Lights Off 1: Red 2: Green 3: Blue 4: Pink 5: Purple 6: Orange 7: Yellow 8: Azure; 9: white 10: mixed Color
When Controlling By A Dmx Console, This Function Will Not Affect, The Led Controlled By Dmx Value.

3.4 MANUAL CONTROL SETTING

Advanced Setting

“ Interval 10s”

“ Duration 2s”

In The Main Interface Press The '+'button The Machine Will Spray 2s, Then Stop 10s
Press The '-'button, The Machine Will Spray Without Time Limits, Needs To Press 'Enter' Button To Stop.

NOTICE

Press The Menu Button To Enter The Menu Settings, And The Screen Will Automatic-ly Return To The Main Menu Interface If No Changes Are Made.

NOTICE

Press The '-' Or '+'key To Modify The Parameter, And It Will Blink After Modification, Press 'Enter' Key To Save The Change.

NOTICE

Press 'Enter' Button To Save The Settings.

4 DMX PARAMENT LIST

4.1 SINGLE CHANNEL MODE

CHANNEL	FUNCTION
(CH1)	SPRAY (0-9) OFF, (10-255) ON

4.2 11 CHANNEL MODE

CHANNEL	FUNCTION
CH1	Spray 0-9 Off, 10-255 On
CH2	Led Red, 0-9 Off, 10-255 Inner Led
CH3	Led Green, 0-9 Off, 10-255 Inner Led
CH4	Led Blue, 0-9 Off, 10-255 Inner Led
CH5	Led Red, 0-9 Off, 10-255 Outer Led
CH6	Led Green, 0-9 Off, 10-255 Outer Led
CH7	Led Blue, 0-9 Off, 10-255 Outer Led
CH8	Led Mixed Color, 0-9 Off, 10-255 Combine With Ch10
CH9	Led Color Change, 0-9 Off, 10-255 Change Faster
CH10	Led Shining, 0-9 Off, 10-255 Led Shining Faster
CH11	Led Lights On, 0-9 Off, 10-255 Led Lighter

CAUTION

Ch11: lights channel, needs to turn on the lights by ch11 before change different types.
Notice: when dmx connected, the manual spray key will not affect.

5 OPERATING PRECAUTIONS

5.1 OPERATION PANEL INTRODUCTION

NOTICE

It is prohibited to open the machine for repair by yourself, otherwise it may cause serious accidents.

NOTICE

This model is not waterproof design, please keep the machine away from rain, please do not use the machine when it is soaked with water or smoke oil oozing out.

NOTICE

Before connecting the power supply, make sure that the power supply voltage matches the rated voltage of the equipment and should be used with a grounding type socket. Turn off the machine by disconnecting the power plug when not in use.

NOTICE

The machine is for adult use only and should also be kept away from flames, flammable and explosive materials.

NOTICE

In order to ensure good heat dissipation of the equipment, please leave a space of 50cm around the equipment and strictly prohibit covering the nozzle.

NOTICE

If the machine has any abnormal working condition, please stop using it immediately and cut off the power supply, and check the smoke oil, fuse, connecting wire and power plug. if you can't solve it, please contact us.

NOTICE

In case of the smoke oil contact with eyes by accident, please wash with water. In case of accidental drinking, please consult a doctor immediately if there is any discomfort.

NOTICE

Please make sure to use our high quality professional smoke oil SF-S as consumables, otherwise the machine will spray water or clog! Please do not add any other materials such as paint, perfume, tap water, etc. into the oil tank

NOTICE

When the machine is placed flat on the ground or on its side, please do not exceed the maximum scale of the oil in the oil tank to prevent the oil from overflowing. When the machine is inverted, the top of the oil tank should be installed facing the sky

6 OPERATION OF MACHINE

1. Fully understood the contents of the "Precautions" and have taken various safety measures.
2. Place the machine on a firm, level surface with a recommended maximum inclination angle of no more than 15 degrees.
3. Remove the cap, take out the oil tank, fill it with smoke oil, be careful not to exceed the oil level line, put the oil tank into the machine, cover the cap and tighten it.
4. Insert the power connector accurately and firmly into the correct place. As this equipment has a large power, please pay attention to the carrying capacity of the plug-in board, power cord and power plug, and use a professional distribution box for stage lighting if necessary.
5. Turn on the power switch, the LCD screen will show "Heating".
6. When the machine is heated up, "Heating" disappears and the temperature is close to 285, at this moment, it can be used normally.
7. After each injection, need to wait a few seconds for the temperature to stabilize before starting the next injection.

6.1 CONNECTION OF MACHINE

Connection of Power and DMX Signal Cables

- * Connect the first unit to the power plug.
- * Connect other machines with power link cables.
- * Connect other machines with DMX signal cables.
- * Connect with PYRO SIM CONTROLLER or console DMX512 .

6.2 INVERTED INSTALLATION

The inverted installation method is shown below, you need to remove the bottom plate of the oil tank and mount it on the other side, the tank is mounted facing upwards, and requires the use of safety rope.



6.3 INITIAL SETTINGS

SETTINGS	RANGE	DEFAULT
TEMPERATURE	285°C-340°C	285°C
DMX CHANNEL	11	11
DMX ADDRESS	1-512	1
SAFETY ADDRESS	OFF/501-512	OFF
COLOR OPTIONAI	0-10	0
INTERNAL SET	0-100	0
DURATION SET	0-8	0
TFT BACKLIGHT	OFF/ON	ON
RESTORE DEFAULTS	OFF/ON	OFF

6.4 SET DMX ADDRESS

Set the machine DMX address code according to the channel mode:

In 11-channel mode, set the machine's DMX address code to 1, 12, 23, 34

NOTICE

Do not duplicate address codes.

7 TROUBLESHOOTING

ERROR MESSAGE	DESCRIPTION
E1 Pressure	Error of pressure, no oil in the tank or pump failure
E2 Ktemp Sensor	Temperature sensor failure
E5 Temp Over	Circuit failure
E6 Heat Fail	Damaged heater or circuit failure

No oil alarm description

Use program in this machine to detect the presence of oil in the current tube to protect the pump.

1.No oil protection activated

Under the working condition, the system has not been able to reach the predetermined pressure, it may be that there is no oil in the tank, and the machine enters the no-oil protection state, at which time the pump stops working and the E1 alarm appears.

2.Three ways to cancel the no oil protection state

- ① In the oil-free protection state, re-fill the oil tank and restart the machine.
- ② Press the injection key “-” to reset.
- ③ Initiate one injection with DMX Channel 1

8 MACHINE MAINTENANCE

NOTICE

Please use the original professional light gas column smoke oil as consumables to extend the service life of the machine. Do not allow non-professionals to disassemble the machine, neither the modification of the machine to avoid danger.

NOTICE

Excessive dust, liquid residue accumulated impurities on the machine will reduce the working performance of the machine and lead to poor heat dissipation. Need to clean up using an air compressor, vacuum cleaner, or tools such as soft brushes and dry towels.

NOTICE

Before storing the machine, please pour distilled water into the oil tank and spray to clean the tube to avoid clogging. After cleaning, clean the water left in the oil tank, keep the tank clean or replace the tank and filter.

NOTICE

It is recommended to run the machine at least once a month to keep the machine in optimum use.

NOTICE

The machine is at risk of clogging of the tube due to incomplete filtration of the smoke oil or frequent use over a long period of time. Therefore, regular maintenance is required for better performance and longer life of the equipment. It is recommended to clean the tube with about 35% white vinegar mixed with 65% distilled water liquid after the machine has been used for more than 40 hours, 10-15 times of spraying after the machine has been heated up is preferred.

9 ANALYSIS OF THE PHENOMENON OF EQUIPMENT ATOMIZER CLOGGING

Please use Spark Fabrica SF-S as consumables to protect your health and machines' service life!

Oil spraying malfunction: The heated atomizer cannot atomize the smoke oil in time and effectively, so that the smoke oil is poorly atomized in the atomizer, resulting in a small amount of oil sprayed out along with the smoke.

Reason 1: Using low-quality or fake smoke oil. It is well known that some unscrupulous vendors in order to reduce costs, configure the poor-quality smoke oil with the impure raw materials or harmful formulas, which is not only harmful to your health, but also the effect of the smoke is not good, and it is easier to block the atomizer tubeline, resulting in incomplete atomization, which in turn, there is a smoke oil sprayed out.

Reason 2: The smoke oil used is not the specified smoke oil consumables for the machine, and the mixing of different smoke oil consumables leads to incomplete atomization and oil spraying.

Fault of heating atomizer clogging: The poor atomization and oil spray is the early phenomenon of heating atomizer tube clogging. The use of low-quality smoke oil or long-term non-maintenance and cleaning of machines, there will inevitably be a heating atomizer clogging late phenomenon. Similar to the scale formed by long-term use of hot water kettles, the worse the water quality, the higher the probability of scaling.

Solution: Using the tube of heating atomizer for a long time, produces attached dirt in it (the worse quality the smoke oil, the more impurities. which leads to oil spraying and tube blockage). All smoke jet machines should be regularly maintained (smoke jet machine maintenance cycle is generally 1 time/1-2 months). Specific maintenance method: clean the tube with about 35% white vinegar mixed with 65% distilled water liquid, spray 10-15 times after the machine has been heated up.

Summary: As long as the smoke jet machine appears to spray oil and atomizer clogging after a long time using, it's the result of poor quality smoke oil or lack of maintenance, not related to equipment quality. In order to use the equipment better, please use professional high quality smoke oil and maintain it in time for healthy and long-lasting use.

*Invoice and warranty card are necessary when applying for maintenance service from SPARK FABRICA.

WARRANTY CARD

Product Name:		Serial No:	
Purchase Date:			
Tel:			
Address:			
Info.Feedback About The Problem:			
Actual Problem:			
Maintenance Detail:			
Service Engineer:		Service Date:	

