SPARK4

SPARK MACHINE

USER MANUAL

For your safety, please read this user manual carefully before use.

Event Lighting reserves the right to revise the manual at any time. Information and specifications within this manual are subject to change without notice. Event Lighting assumes no liability or responsibility for any errors or omissions. Please consult Event Lighting for any clarification or information regarding this item.

Version 1.0

Safety Instructions

Warning

- Do not open this device, there are no user serviceable parts inside. Risk of electric shock.
- Avoid touching the nozzle during operation. The nozzle may become very hot during operation as it is close to the heater.
- Do not operate the device within 3 metres of any flammable objects. Ensure the nozzle is directed at open air and not any objects.
- Do not block the nozzle, the air inlet or outlet during operation.
- Do not operate this device outdoors where excessive dust, heat, water, or humidity may affect it.
- Do not operate this device if the housing or cables appear damaged.
- Do not connect this device to a dimmer or rheostat.
- Do not operate this device at temperatures higher than 40°C (104°F).
- Stop using this device immediately if a serious operating problem becomes apparent.

Important:

Before packing away SPARK4, empty the hopper then run until unit is no longer producing sparks. Otherwise, blockage will occur.

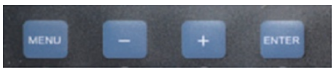
Product Features

- SPARK4 is easy to operate and can be started with one button.
- SPARK4 supports the standard DMX512 communication protocol. Multiple SPARK4 machines can be linked with each other, and SPARK4 can be linked with other stage equipment.
- SPARK4 has an automatic shutdown function in case of over-temperature alarm.
- SPARK4 is made of flame-retardant and high-temperature-resistant material.

Product Operation

Operation Interface

Control button operation area



MENU: short-press it to navigate through setting interfaces.
-: decrease the value.
+: increase the value.
ENTER: confirm and save the setting.

Operating Instructions

Contents displayed after start-up:

RUN Time
00032.33 Minute

Note: Once the machine is started, the cumulative running time will be displayed automatically, including the actual spraying time but excluding the standby and warm-up time. The cumulative time is maximum 60000.00 minutes and accurate to a second. If the cumulative time exceeds 60,000 minutes, the system will automatically clear it and re-calculate the time, as shown below:

Warning:
Equipment Repair

This interface will last for about 2s. Then the initialization interface will appear.

Initialization interface

The initialization interface is shown below:
DMX Address 001
Ready For Work…

Note: The DMX address saved last time and “Ready For Work…” will be shown on the standby interface. The user can enable warm-up via the DMX stage controller or press MENU to enter the working status interface.

The working status interface is shown below:

When the machine is working, the warm-up function will be enabled automatically, and the DMX address and real-time core temperature will be shown. If the temperature sensor is abnormal, the FAULT indicator will flash, and the following interface will pop up.

Error 1
Temp Sensor

If the temperature sensor is in the normal status, warm-up will be started. The HEAT indicator will flash in the warm-up process. After warm-up, the HEAT indicator will be OFF.
If the heating module is malfunctions in the warm-up process, the following interface will pop up.

Error 0

Heat Fail

If the fan malfunctions during operation, the following interface will pop up.

Error 3
AIRMOTOR ERROR

If the above interface pops up, immediately shut down the machine and return it to the factory for repair.

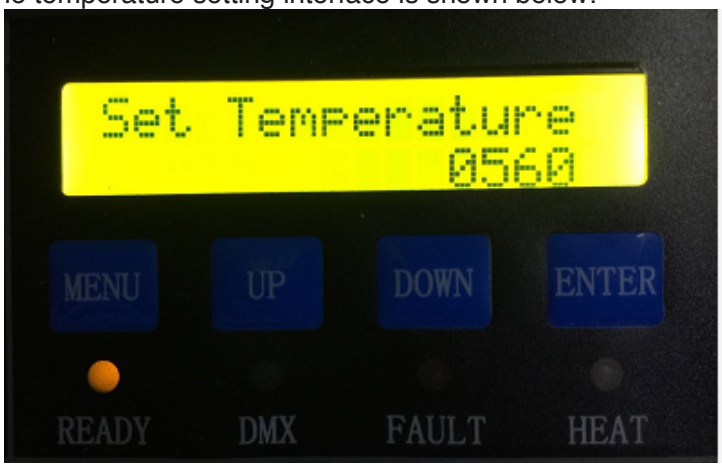
Parameter setting

When the machine is operationg, press MENU to enter the setting interface to set different parameters. Then go back to the main interface.
The interface of DMX address is shown below:

Press UP or DOWN to select a value between 1 and 512. Press ENTER to go back to the main menu or MENU to enter the temperature setting.

Note: The DMX start address must be odd, otherwise the unit may not function correctly.

The temperature setting interface is shown below:



Press UP or DOWN to set the temperature between 560°C and 620°C. Then press ENTER or MENU to go back to the working status interface.

DMX512 Control

Channel	Value	Function
CH1	0-9	Spray OFF
	10-255	Spray ON
CH2	0-10	Warm-up OFF
	20-40	Emergency stop
	60-80	Consumable cleaning
	240-255	Warm-up ON

IR Remote

A Preheat, Start/Stop

B Low

C Medium

D High

Technical Specifications

- Power Consumption: 400W 2.8A
- Input Voltage: 240V AC 50Hz

- Power Connection: powerCON In / Out
- Warm-up Time: 3 - 5 minutes
- Spray Direction: Vertical - Upward
- Spray Height: Variable
    - SPARKP200I (Indoor Powder) up to 3.5m
    - SPARKP200O (Outdoor Powder) up to 5.5m
- Operation Time: 5 - 8 mins per hopper
- Control: DMX512
- DMX Channels: 2
- DMX Interface: 3-pin XLR
- Chassis Material: Flame-retardant ABS
- Display: LCD Control Panel
- Dimensions: 195 x 180 x 260 mm
- Net Weight: 4.5 kg

Warranty

Please refer to your local dealer or contact Event Lighting.