

V-3 SPARK MACHINE

USER MANUAL

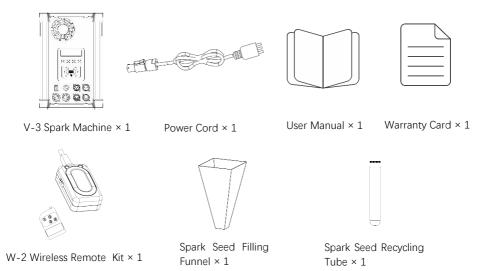
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1 BEFORE YOU BEGIN

1.1 What Is Included



1.2 Unpacking Instructions

Carefully unpack the product immediately and check the container to make sure all the parts are in the package and are in good condition.

If the box or the contents (the product and included accessories) appear damaged from shipping, or show signs of mishandling, notify the carrier or dealer/seller immediately. In addition, keep the box and contents for inspection.

1.3 Symbols

| Symbol | Meaning |
|------------|---|
| | Caution |
| Ŵ | Critical installation, configuration, or operation information. Not following these instructions may make the product not work, cause damage to the product, or cause harm to the operator. |
| | Important |
| (i) | Important installation or configuration information. Failure to comply with this information may keep the product from working correctly. |
| | Information |
| \odot | Useful information. |
| | |

1.4 Disclaimer

The information and specifications contained in this User Manual are subject to change without notice. DJPOWER assumes no responsibility or liability for any errors or omissions and reserves the right to revise or to create this manual at any time.

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1.5 Safety Notes

Please read the following Safety Notes carefully before working with the product. The notes include important safety information about installation, usage, and maintenance.

1.5.1 Personal Safety

- Always connect the product to a grounded circuit to avoid the risk of electrocution.
- During heating up and operation, the housing will be scalding hot. Do not touch.
- The product is very hot during operation and it remains hot for a long time after operation has stopped. Do not touch the product's nozzle.
- Keep a minimum distance of 6.6 ft. (2 m) from the machine to the nearest human or flammable material. The output spark from the nozzle must be in the air but not reaching any object. And mind the falling residue after the spark.
- Make sure that children, unauthorised people and animals do not obtain access to the machine.
- The operation noise is lower than 80 dB without harm to ear. No need to wear ear protection when close to the working machine.
- Eye protection is always required when operate the machine closely.

1.5.2 Mounting and Rigging

- For safety reasons, we do not recommend mounting the product in any capacity. Operate the
 product while it is on the ground only.
- The product is for indoor use! To prevent risk of fire or shock, do not expose the product to rain or moisture. Optional waterproof case is available for operating in rain.
- CAUTION: When transferring product from extreme temperature environments, (e.g. cold truck to warm humid ballroom) condensation may form on the internal electronics of the product. To avoid causing a failure, allow product to fully acclimate to the surrounding environment before connecting it to power.
- Do not mount the product on a flammable surface (linoleum, carpet, wood, paper, carton, plastic, etc.).
- Do not use in a confined space. Always install the product in a location with adequate ventilation, at least 20 in (50 cm) from adjacent surfaces.
- Be sure that no ventilation slots on the product's housing are blocked.

1.5.3 Power and Wiring

 Always make sure that the voltage of the outlet to which you are connecting the product is within the range stated on the decal or rear panel of the product.

- Make sure the power cord is not crimped or damaged.
- Never connect this product to a dimmer pack or rheostat.
- Never disconnect the product from power cord by pulling or tugging on the cord.
- To eliminate unnecessary wear and improve its lifespan, during periods of non-use completely
 disconnect the product from power via breaker or by unplugging it

1.5.4 Operation

- Do not operate this product if you see damage to the housing or cables. Have the damaged parts
 replaced by an authorized technician at once.
- Make sure there are no flammable materials close to this product while it is operating.
- Do not cover or plug the output nozzle during operation.
- Do not use the product as a space heater.
- Never carry the product by the power cord or any moving part. Always use the handles.
- Empty the storage bin before transporting the product.
- The maximum ambient temperature (Ta) is 104 °F (40 °C). Do not operate the product at higher temperatures.
- Always disconnect the product from the power source before cleaning.
- This product contains no user-serviceable parts. Any reference to servicing in this User Manual will
 only apply to properly trained, certified technicians. Do not open the housing or attempt any repairs
 which can lead to damage or malfunction.
- In the event of a serious operating problem, stop using the product immediately.
- Use only DJPOWER Spark Seed PRO-K.



Keep this User Manual for future use. If you sell the product, be sure that the purchaser receives this document.

2 INTRODUCTION

2.1 Description

The Spark machine produces a fantastic, non-hazardous effect that looks like traditional fireworks or pyrotechnics, adopting brand-new control system and standard DMX Control to realize multiple stage special effects. It thoroughly changed the drawbacks on traditional cold fireworks such as danger caused by gunpowder, environmental pollution, restricted for use etc.

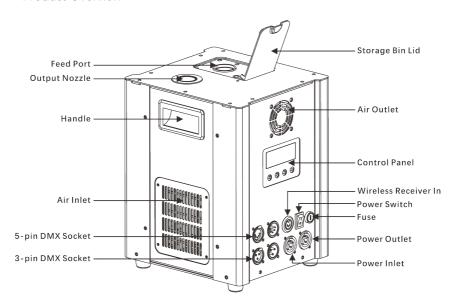
Based on V-1, V-3 has a more compact design. It uses a belt drive for less noise and better results. The product is very safe and easy to operate. Spark is bright, environmental friendly, creating less smoke. It can strongly enhance the rendering atmosphere of the scene, favored by the stage designer and event planner.

2.2 Features

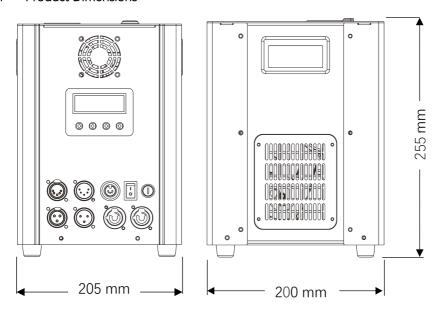
Unique design: the storage bin flip cover warning function makes the machine safer to use.

- Compact size, with belt drive, less noise.
- Higher and denser spark, quicker eruption speed, amazing effect.

2.3 Product Overview



2.4 Product Dimensions



3 TECHNICAL SPECIFICATIONS

| Identification | Category | Spark Machine |
|------------------------|---|----------------------|
| | Model | V-3 |
| | Software Version | 1.0 |
| AC Power | Input Voltage & Rate | 220-240 V, 50/60 Hz |
| | Current Limiter Specifications | F 5 A, 250 V |
| | Typical Current | 2.6 A |
| | Current Limiter Type | FUSE |
| | Nominal Total Power Consumption | 600 W |
| | Power Input Connector | Lockable PowerCon |
| | Power Output Connector (Daisy Chained) | Lockable PowerCon |
| Heating | Heat Up Time | <3 min |
| | Re-heat Up Time | 0 min |
| Capacity | Powder Tank Capacity | 200 g |
| Output | Adjustable Output | |
| оперис | Adjustment Level/Range | Level 1-10 |
| | Max Output Height | Approx. 5.0 m |
| | Powder Consumption (100% Output) | Approx. 11 g/min |
| | Maximum Continuous Duration (100% Output) | 30s |
| | Continuous Output | × |
| | Consumable Type for Standard Output Test | PRO-K |
| Accessory | Power Cord | √ √ |
| Accessory | Wireless Controller (Controller Model) | |
| | Wired Controller (Controller Model) | v |
| Placement & | Horizontal | - ^ |
| Mounting | Inclined | √ |
| Wounting | Vertical | × × |
| | Hang Upside Down | ^ × |
| | | ^ × |
| | Rigging & Trussing | × × |
| | Rotating Nozzle | × × |
| F4 | Deflector Organization Nation | |
| Features Control | Operation Noise | 1 m, 80 dB |
| Control | On-device Manual Control Wireless Control | LCD control board √ |
| | Wired Control | v |
| | | ••• |
| | Control Protocol | DMX-512 2 |
| | DMX Channel Range | <u>Z</u> |
| Certification | RFID Card | |
| Certification | CE D. H.O. | |
| | RoHS | · |
| Weight & Dimensions | Net Weight | 7.5 kg |
| Dimensions | Gross Weight | 9 kg |
| | Machine Dimensions - Length | 205 mm |
| | Machine Dimensions - Width | 200 mm |
| | Machine Dimensions - Height | 255 mm |
| | Packing Dimensions - Length | 270 mm |
| | Packing Dimensions - Width | 245 mm |
| | Packing Dimensions - Height | 320 mm |
| Consumable | Consumable | Spark Seed PRO-K |

4 SETUP

4.1 AC Power

The machine has a fixed voltage power supply and can work with an input voltage of AC 220 V-240 V, 50/60 Hz, depending on the specific model.

To determine the product's power requirements (circuit breaker, power outlet, and wiring), use the current value listed on the label affixed to the product's back panel, or refer to the product's specifications chart. The listed current rating indicates the product's average current draw under normal conditions.



Always connect the product to a protected circuit (circuit breaker or fuse). Make sure the product has an appropriate electrical ground to avoid the risk of electrocution or fire.



Never connect the product to a rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer channel serves only as a 0 to 100% switch.

4.2 AC Plug

The Spark Machine V-3 comes with a power input cord terminated with a Seetronic Powerkon connector on one end and an EU plug on the other end (EU & China market). If the power input cord that came with your product has no plug, or if you need the change the plug, use the table below to wire the new plug:

| Connection | Wire (U.S.) | Wire (Europe) | |
|------------|--------------|---------------|--|
| AC Live | Black | Brown | |
| AC Neutral | White | Blue | |
| AC Ground | Green/Yellow | Green/Yellow | |

4.3 DMX Linking

You can link the V-3 to a DMX controller using a 3- or 5-pin DMX connection. If using other DMX-compatible products with this product, you can control each individually with a single DMX controller. Instructions for connecting and configuring this product for DMX operation are in the User Manual.

4.4 Mounting

Before mounting the product, read and follow the safety recommendations indicated in the Safety Notes.

4.4.1 Orientation

For safety reasons, we do not recommend mounting the product in any capacity. Operate the product while it is on the ground only, and make sure there is adequate room for ventilation, configuration, and maintenance.

4.4.2 Rigging

DJPOWER recommends using the following general guidelines when mounting this product.

- Before deciding on a location for the product, make sure there is easy access to the product for maintenance and programming purposes.
- Make sure that the structure or surface onto which you are mounting the product can support the
 product's weight (see the Technical Specifications).
- When mounting the product on the floor, make sure that the product and cables are away from people and vehicles.

5 OPERATION

5.1 Preparing for Operation

- After checking that all the parts are intact and complete, position the machine on flat.
- Fill the consumable into feed port when power off.
- Always connect the product to a grounded circuit. Before power on, make sure it is connected with the rated voltage.
- Turn on the machine, it will immediately start heating up.

5.2 On-device Control Panel

To access the control panel functions, use the four buttons located underneath the LCD display.



| Button | Function |
|---------------|--|
| <menu></menu> | Switch menu pages to select a function |

| Button | Function |
|-----------------|---|
| A | Increases the numeric value of current function |
| ▼ | Decreases the numeric value of current function |
| <enter></enter> | Switch between current menu page and Standby Page |

5.3 On-device Control Mode & Operation

5.3.1 Programming

- Refer to the Menu Map to understand the menu options. The menu map shows the main level and a variable number of programming levels for each option.
- To go to the desired main level, press <MENU> repeatedly until the option shows on the display. This will take you to the first programming level for that option.
- To select an option or value within the current programming level, press ▲ or ▼ until the option shows on the display. If there is another programming level, you will see that first option, or you will see the selected value.
- Press <MENU> repeatedly to switch menu pages.
- Press <ENTER> to switch between current menu page and Standby Page at any time

5.3.2 Menu Map

| | Display | Description | Parameter Range |
|-------------------|-----------------------------------|---|--------------------|
| Preparing Page | Heating Up >>>>> Temp. 585 | The machine is heating up. The machine could only start working when reach the pre-set target temperature. | 530 - 600°C |
| Standby Page | Ready to Spark >>>>> Temp. 585 | Finished heating up, ready to work. Displays current heating system temperature. Press <enter> to get back to this page at any time (not DMX mode).</enter> | |
| | Auto Heat-up ON | Press ▲ or ▼ to switch ON/OFF Auto Heat-up function. | ON/OFF |

Manual Mode Pages The default setting of Auto Heat-up is ON. The Heat-up starts when the machine is powered on. LCD will keep showing "Heating Up" until the heating system reaches pre-set target temperature. When the LCD reads "Ready to Spark", the machine is available for spark effect at the moment.

| Manual Spank OFF Press ▲ or ▼ to trigger spark output on/OFF manually |
|---|
|---|

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| | Display | Description | Parameter Range |
|------------------------------|---------------------------------------|---|--------------------|
| | | The machine is outputting spark. | |
| | Spark ON >>>>> Temp. 585 | The LCD will automatically switch to this page after Manual Spark is on for 5 seconds. | |
| Manual Mode | >>>>> Temp. 585 | Press any button, the LCD will go back to previous page "Manual Spark ON", and press ▲ or ▼ again to switch OFF Manual Spark. | |
| Pages | seconds when ma stop after 30 seco | ion of single time of Manual Spark out chine works properly. The machine will nds continuous output with LCD showi put, just turn on Manual Spark again. | automatically |
| | Spark Height 10 | Press ▲ or ▼ to set the Spark height of Manual Spark from level 1 (minimum) to 10 (maximum). | 1 - 10 |
| DMX Configuration Page | DMX Address 512 | Press ▲and ▼to set the DMX starting address | 1-512 |

5.4 Wireless Remote-Control Mode & Operation

This mode will allow you to control the Spark Machine V-3 using the wireless controller W-2. This consists of the transmitter and the receiver. Any one (or more) W-2 transmitter can work with any one (or more) W-2 receiver, no paring procedure needed.

You may control up to 4 independent Spark Machines V-3 or many more if you run them simultaneously. See the below instructions on setting up your Spark Machine V-3 to operate with the W-2.

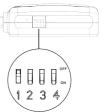


 Plug the wires receiver into the fog machine 5-pin port labeled "Wireless Controller". The red LED indicator will be on when the transmitter is successfully connected. There is no any reaction in the green LED indicator

> Ready to Spark >>>>> Temp. 585

There are 4 buttons on the wireless remote transmitter which act as triggers. Each button can be assigned to a different Spark Machine
 V-3. You may only choose 1 dipswitch on each receiver. See the below configuration options for setting the receivers to operate with the transmitter remote.

| Mode | Dipswitches |
|--------------------|-----------------------|
| CH1 | 1 = On, 2-4 = Off |
| CH1, CH2 | 1, 2 = On, 3,4 = Off |
| CH1, CH2, CH3 | 1, 2, 3 = On, 4 = Off |
| CH1, CH2, CH3, CH4 | 1, 2, 3, 4 = On |
| | |



Press the button, and the Spark Machine V-3 will output spark momentarily for as long as you hold down the button (no more than 30 seconds). The screen display as below:



· Release the button, Spark stops. The screen display as below:



5.5 DMX Mode & Operation

The Spark Machine V-3 works with a DMX controller.

- · Connect the product to a suitable power outlet.
- Turn the product on.
- Connect a DMX cable from the DMX output of the DMX controller to the DMX input socket on the
 product.

5.5.1 Starting Address

When selecting a starting DMX address, always consider the number of DMX channels. If you choose a starting address that is too high, you could restrict the access to some of the product's channels.



DJPOWER® V-3 DMX uses 2 DMX channels, which defines the highest configurable address to 511 to have all channels controllable.

Set the Spark Machine V-3starting address in the 001 - 512 DMX range. This enables control of up to 256 products in the 2-channel personality.

Connect a DMX cable from the DMX output of the DMX controller to the DMX input socket on the product, or press repeatedly "MENU" button until the LCD shows "DMX Address". Press "▲" or "▼" to set desired DMX starting address.

5.5.2 DMX Mode Menu Map

| | Display | Description | Adjustable Range |
|-------------------|---------------------------------|--|---------------------|
| Preparing Page | Heating Up DMX Address 1 | The selected DMX starting address is 1. The machine is heating up. | 1 - 512 |
| Standby Page | Ready to Spark DMX Address 1 | The selected DMX starting address is 1. Finished heating up, ready to work. | 1 – 512 |
| Operation | Spark ON DMX Address 1 | The selected DMX starting address is 1. The machine is outputting spark. | 1 – 512 |
| Page | when machine wor | on of single time of spark output is 3 rks properly. The machine will automa ontinuous output with LCD showing " | atically stop |

For longer output, just turn on spark again via DMX controller.

Device Error E0

:0 | ' 1 | 1

The machine is having error. Error code is E0. 1-512

The selected DMX starting address

Status Pages



Refer to "General Troubleshooting" chapter to for a brief description of each error code.

5.5.3 DMX Channel Assignments and Values

DMX Address

| Channel | Function | Value | Description |
|---------|--------------|-----------|-----------------------|
| | | 000 - 009 | Spark OFF |
| | | 010 - 035 | Spark height level 1 |
| | | 036 - 060 | Spark height level 2 |
| | | 061 - 085 | Spark height level 3 |
| | | 086 - 110 | Spark height level 4 |
| 1 | Spark Height | 111 - 135 | Spark height level 5 |
| | | 136 - 160 | Spark height level 6 |
| | | 161 - 185 | Spark height level 7 |
| | | 186 - 210 | Spark height level 8 |
| | | 211 - 235 | Spark height level 9 |
| | | 236 - 255 | Spark height level 10 |

| 2 | Safety Channel | 0 - 9 | Device enabled |
|---|----------------|-----------|---|
| | | 10 - 60 | Consumable cleaning up |
| | | 61 - 120 | Emergency stop / Device disabled |
| | | 121 - 182 | Auto Heat-up OFF, spark output (channel 1) disabled |
| | | 183 - 255 | Auto Heat-up ON, spark output (channel 1) disabled |

5.4 Correspondence of Spark Height & Spark Density

| Spark Height | Spark Density |
|---------------------------|----------------------------|
| Height level 1 (Minimum) | Density level 1 (Minimum) |
| Height level 2 | Density level 2 |
| Height level 3 | Density level 3 |
| Height level 4 | Density level 4 |
| Height level 5 | Density level 5 |
| Height level 6 | Density level 6 |
| Height level 7 | Density level 7 |
| Height level 8 | Density level 8 |
| Height level 9 | Density level 9 |
| Height level 10 (Maximum) | Density level 10 (Maximum) |



The internal temperature increases dramatically after continuous high-level output, which might cause clogging and failure.

5.5 Advanced Settings Interface

5.5.1 Enter And Exit Advanced Settings Interface

Press <ENTER> for 3s to enter Advanced Settings Interface. Press <MENU> repeatedly until the option shows on the display. To select an option or value, press ▲ or ▼ until the option shows on the display.

5.5.2 Menu Map of Advanced Settings Interface

| | Display | Description | Adjustable Range |
|----------------------|------------------------------|--|---------------------|
| | | Temperature set | |
| | Temperature Set [500] 585 | Press ▲ or ▼ to adjust the temperature according to the effect of spark. The default temperature is 585°C. | 530 - 600 |
| Advanced Settings | | Left is current temperature, right is adjustable target temperature. | |

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| Keypad Tone ON | Press ▲ or ▼ to turn ON/OFF keypad tone. | ON/OFF |
|--------------------------------------|--|--------------------------|
| Detect The Magnetic Hinged Lid ON | Press ▲ or ▼ to turn ON/OFF keypad tone. When the function of "detect the magne lid must be closed to make the machine the display interface will prompt "Close n | work normally, otherwise |
| Press ENTER to Exit Settings | Press <enter> to exit Advanced Settings Interface.</enter> | |

6 SPARK SEED

Spark Seed is the consumable specially designed for DJPOWER Spark Machine, to create light golden color cold firework for stage effect.

6.1 Fill in Spark Seed

Tear open the vacuum resealable foil pouch, and fill in the Spark Seed through the feed port on the top of the fixture depending on the dosage needed.



Consumable Feed Port & Storage Bin (Filling & Refilling Procedures)

- · Open the magnetic hinged lid.
- · Fill the consumable into the feed port, NOT into the output nozzle when power off.
- Close the lid securely after filling.
- · The capacity of storage bin is 200g.
- Only use DJPOWER consumable.



6.2 Precaution for use

- The Spark Seed could be only filled in and used for the DJPOWER Spark Machine after successfully identified by swiping Consumable ID card.
- Make sure to fill the Spark Seed through the feed port on the top of the fixture and when power supply is off.
- Use Dry Chemical Extinguishers once lighting a fire. DO NOT use Water-Type Extinguishers, Foam Extinguishers or Carbon Dioxide Extinguishers.

7 TECHNICAL INFORMATION

7.1 Maintenance

The V-3 requires minimal upkeep in order to maintain optimum performance. However, some steps are needed in order to clean and maintain the product for maximum usage. The recommended procedure is as follows:

After a period of using, check if there is any consumable tuberculation inside the nozzle. Do
necessary cleaning up if there has some, or it may affect spark performance, even damage the
machine.



Test-run your DJPOWER® V-3 on a monthly basis to achieve the best performance.

7.2 Storage

7.2.1 Machine Storage

Before storing the machine, empty the storage bin, clean it as described in the "Maintenance" section. And keep the machine in dry cool place.



Empty the storage bin:

 Remove the power cord from mains power, and allow unit to cool down. Empty the storage bin through feed port by inverting the machine.



 Run the machine to generate Spark till out of Spark Seed, or run Consumable Cleaning Up procedure (Safety channel, channel 2) to completely clear remaining Spark Seed inside the nozzle.



Refer to "DMX Channel Assignments and Values" chapter to for more information.



Spark Seed would easily get damp in the open air and deliver poor spark effect. Storing damp Spark Seed in the machine storage bin will do harm to machine and cause clogging. Please empty the storage bin after each use.

Spark Seed Storage & Recycling 7.2.2

7.2.2.1 Sealed Spark Seed Storage

Spark Seed should be stored in a cool, dry place, vacuum packed in resealable foil bags, and protected from moisture, heat, hot surface, open fire and other ignition sources.

7.2.2.2 Spark Seed Recycling

Store the unfinished Spark Seed in the Recycling Tube with the Funnel. Keep it sealed and away from moisture.



7.3 General Troubleshooting

7.3.1 **Device Error Description**

When error happens, device will stop working and heating system shuts off automatically. LCD shows corresponding error code.

7.3.2 Device Error Menu Map

| Errors | Display | Possible Cause |
|-----------------------------------|--------------------|---|
| Over heat shutdown | Device Error EØ | The heating system temperature is higher than 700 $^{\circ}$ C over 30 seconds. |
| Heating up failed | Device Error E1 | Heating system cannot reach pre-set target temperature after 10-min heat-up |
| Over current protection for motor | Device Error E2 | Consumable feeding motor failed |
| Thermocouple failed | Device Error E3 | Short circuit or wrong connection of thermocouple |

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| Errors | Display | Possible Cause |
|-------------------------------------|--------------------|---|
| Thermocouple tripped off | Device Error E4 | Open circuit or no connection of thermocouple |
| Internal temperature too high | Device Error E5 | The internal temperature is higher than 60° |
| Motor error | Device Error E6 | Stepper motor cannot be reset. |
| Power line frequency abnormal | Device Error E7 | Power input frequency is abnormal. |