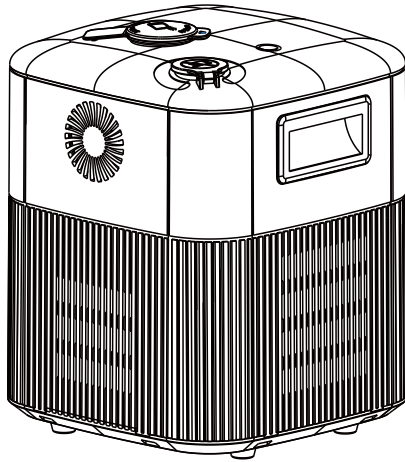


djv

by DJPOWER



D-V3 USER MANUAL

MINI SPARK MACHINE

1 BEFORE YOU BEGIN

1.1 What Is Included






D-V3 Mini Spark Machine × 1 Power Cord × 1 Warranty Card × 1 W-7 Wireless Remote × 1

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 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 Important installation or configuration information. Failure to comply with this information may keep the product from working correctly.
	Information 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.

Copyright © 2025 DJPOWER. All rights reserved.

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 machine to a grounded circuit to avoid the risk of electric shock.
- During heating up and operation, the housing will be scalding hot. Do not touch.
- The machine is extremely hot during operation. Do not touch the machine'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 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



- Keep the machine dry at all times. This machine is not waterproof. Keep the machine dry and do not expose it to rain or damp environments. For optimal performance outdoors, we recommend elevating the unit on a stable platform to keep it away from wet ground.
- For safety reasons, we do not recommend mounting the machine in any capacity. Operate the machine while it is on the ground only.
- When the machine is moved from an extreme environment (e.g., from cold and dry to warm and humid), the resulting condensation may cause a risk of electric shock. To avoid such failures, make sure that the machine is acclimatized to the surrounding environment before connecting the power supply. Make sure there are no flammable items around the machine during operation.
- The spray direction and spray range of the machine must not be aimed at or come into contact with fire detection and sprinkler systems, to avoid false alarms.
- Do not mount the machine on a flammable surface (linoleum, carpet, wood, paper, carton, plastic, etc.).
- Always use the machine in a well-ventilated area and leave at least 50 cm of space around the machine.
- **Be sure that no ventilation slots on the product's housing are blocked.**

1.5.3 Power and Wiring

- Before connecting the power supply, please carefully check whether the power supply voltage is consistent with the rated voltage of the machine.
- 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.
- The surrounding area of the machine should be free of flammable materials during operation.
- **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 of the machine.
- **Before transporting the machine, please empty the material storage hopper.**
- 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 machine does not contain any parts that can be disassembled, repaired or modified by the user. Untrained and authorized technicians are advised not to attempt to repair or modify this machine by themselves to avoid damage or malfunction.
- In the event of a serious malfunction, please stop use immediately.



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

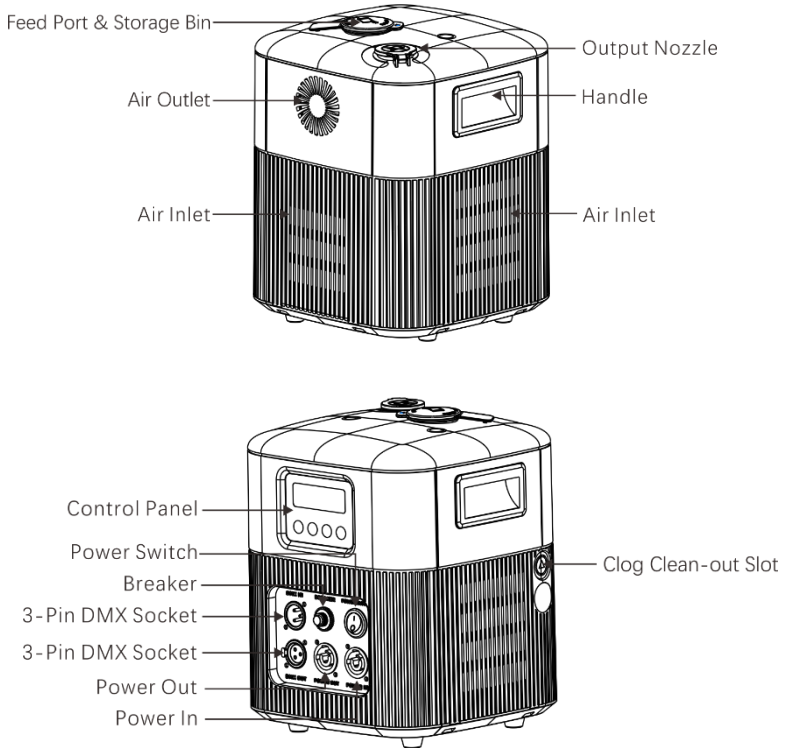
D-V3 is a new mini spark machine launched by DJPOWER. It is made from high-strength integrated composite materials, making it compact, lightweight, and rust-resistant. It supports remote control and can operate multiple units simultaneously, making it an ideal choice for stage design and celebratory venues.

2.2 Features

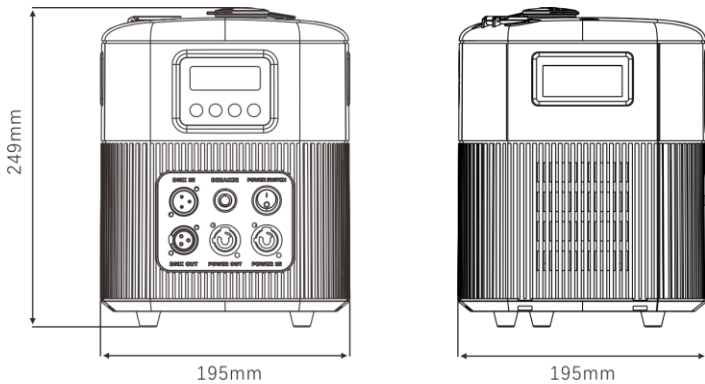
- High Flame-Retardant Housing: V-0 grade flame-retardant materials, lightweight, safe, and durable.
- Powerful Performance: high-speed brush-less motor for higher and denser spark.
- Dual-convection cooling: enhances stability and heat dissipation.
- Intelligent Heating Technology: ensures extended stable operation.
- Wireless Remote Control: operates multiple units simultaneously.
- Convenient Program Upgrade: External Type-C port for easy and hassle-free machine software updates.

Note: The actual effect may be affected by the operational conditions.

2.3 Product Overview



2.4 Product Dimensions



3 TECHNICAL SPECIFICATIONS

	Input Voltage & Rate	AC 100-120 V, 50/60 Hz	AC 220-240 V, 50/60 Hz
AC Power	Current Limiter Type	Breaker	Breaker
	Current Limiter Specifications	8 A, 250 V	5 A, 250 V
	Nominal Total Power Consumption	450 W	
Heating	Heat Up Time	Appr. 4 min 30 s	
Capacity	Powder Tank Capacity	255 g	
Output	Max Output Distance	Appr. 5 m	
	Maximum output powder consumption	Appr. 8.5 g	
	Max Continuous Output Duration	30 S	
	Continuous Output	Re-operate the machine every 30 seconds to spray spark	
Accessory	Power Cord	√	
	Wireless Controller Model	W-7	
Placement & Mounting	Horizontal	√	
	Inclined	15°	
	Side-way (do not cover ventilation holes)	×	
	Upside Down	×	
	Rigging & Trussing	×	
	Rotating Nozzle	×	
	Deflector	×	
Features	Operation noise control	1 m, 80 dB	
Control	On-device Manual Control	LCD control board	
	Wireless Control	W-7	
	Wired Control	×	
	Control Protocol	DMX-512	
	DMX Channel Range	2	
	RFID Card	×	
Weight & Dimensions	Net Weight	3.6 kg	
	Gross Weight	4.2 kg	
	Machine Dimensions	195 × 195 × 249 mm	
	Packing Dimensions	251 × 251 × 285 mm	

4 SETUP

4.1 AC Power

The machine has a fixed voltage power supply and can work with an input voltage of AC 100V-120V, 50/60Hz or AC 220V-240V, 50/60Hz, 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

D-V3 comes with a lockable power connector on one end and an EU plug on the other end. If the power input cord that came with your product has no plug, or if you need to change the plug, use the table below to wire the new plug:

	Wire (US)	Wire (EU)
AC Live	Black	Brown
AC Neutral	White	Blue
AC Ground	Green	Green/Yellow

4.3 DMX Linking

D-V3 supports a 3-pin connection to a DMX controller, it can be connected to the same console with other DMX-supported devices and be controlled separately. This manual covers the operation connection and configuration of DMX.

4.4 Mounting

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

4.4.1 Orientation

For safety, it is recommended to install and operate this machine in a flat location with adequate ventilation, configuration and maintenance space.

4.4.2 Rigging

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

- Make sure the installation location allows easy access for machine maintenance and control operations.

- 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.

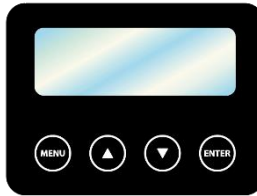
5 OPERATION

5.1 Preparing for Operation

- After checking that all the parts are intact and complete, position the machine on flat.
- Fill the consumable to the 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 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>	Switch menu pages to select a function
▲	Increase
▼	Decrease
<ENTER>	Switch between any 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 repeatedly until the option shows on the display. This will take you to the first programming level for that option.
- Press ▲ or ▼ to set or select a parameter value on the current page. If the parameter range is exceeded, you will see the first parameter or the set value.
- Press the <MENU> key repeatedly to switch between different menu pages.
- Press <ENTER> at any time can switch between the current menu page and the standby page.

5.3.2 Menu Map

	Display	Description	Parameter Range
Version Number	D-V3 Version Number	Product Model and software version	
Preparing Page	Heating Up >>>> Temp: 585	The machine is heating up. The machine could only start working when reach the pre-set target temperature.	500 - 700°C
Standby Page	Ready To Spark >>>> Temp: 585	Heating completed and ready to work. Displays current heating system temperature. Press to get back to this page at any time (Non-DMX mode).	
	Auto Heat-up ON	Press ▲ or ▼ to switch ON/OFF Auto Heat-up function. (Non-DMX modes only and is disabled under DMX control)	ON/OFF
Manual Mode Pages	Manual Spark ON/OFF	Press ▲ or ▼ to trigger spark output manually (Non-DMX modes only and is disabled under DMX control)	ON/OFF
	Spark ON >>>> Temp: 585	The machine is outputting spark. The LCD will automatically switch to this page after Manual Spark is on for 5 seconds. Press any button, the LCD will go back to previous page "Manual Spark ON", and press ▲ or ▼ again to switch OFF Manual Spark.	
		The longest duration of single time of Manual Spark output is 30 seconds when machine works properly. The machine will automatically	

stop after 30 seconds continuous output with LCD showing “Manual Spark OFF”. For longer output, just turn on Manual Spark again.

DMX Configuration Page	<div style="border: 1px solid black; padding: 2px;">DMX Address 512</div>	Press ▲ or ▼ to set the DMX starting address	1-511
Remote Control Page	<div style="border: 1px solid black; padding: 2px;">Remote Control OFF</div>	Press ▲ and ▼ to set whether to enable the remote control function.	ON/OFF
	<div style="border: 1px solid black; padding: 2px;">Auto Screen Off OFF</div>	Press ▲ and ▼ to set whether to enable the Auto Screen Off function. The default screen off time is 30 seconds. Press any key to wake up the screen.	ON/OFF
	<div style="border: 1px solid black; padding: 2px;">RDM-UID 512000000000</div>	RDM Communication UID Code	

Enter Setup Mode: Press and hold the ENTER button for 3 seconds.

Exit Setup Mode: Go to the [Prompt Page] and press the ENTER button.

Settings Pages	<div style="border: 1px solid black; padding: 2px;">Temperature Set 585</div>	The heating temperature can be adjusted by pressing ▲ and ▼, with the default set to 585°C. Press <ENTER> to save.	400-700°C
	<div style="border: 1px solid black; padding: 2px;">Language English</div>	Press ▲ and ▼ to select the language, and press <ENTER> to save.	English / Chinese
	<div style="border: 1px solid black; padding: 2px;">Press ENTER to Exit Settings</div>	Press the menu display operation to exit the setting mode.	

5.4 Wireless Remote-Control Mode & Operation

D-V3 comes with a built-in remote control receiver, allowing remote operation within a range of 10-15 meters using the supplied wireless remote transmitter. Each device has a fixed remote control code. Press button A on the remote to activate spark output, and press button B to turn off the spark output. All devices within range will simultaneously output spark when activated.



- Press button A will immediately start the spark output, with a maximum duration of 30 seconds per activation. The screen display as follows:



- Press button B will stop the spark output, and the screen display as follows:



5.5 DMX Mode & Operation

D-V3 features both DMX and RDM functions, allowing the DMX address to be set and relevant information to be viewed via the console using the RDM protocol.

The machine automatically enters DMX mode when plugged into a console

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

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® D-V3 DMX uses 2 DMX channels, which defines the highest configurable address to 511 to have all channels controllable.



When the DMX signal is received, the menu will automatically switch to the "DMX Address" page, or press repeatedly "MENU" button until the LCD shows "DMX Address". Press ▲ or ▼ to set desired DMX starting address.

5.5.2 DMX Channel Assignments and Values

Channel	Function	Value	Description
1	Output Channel	0 - 74	OFF
		75 - 255	ON
2	Safety Channel	0 - 9	Device enabled
		10 - 60	Consumable cleaning up
		61 - 120	Emergency stop
		121 - 182	Auto Heat-up OFF, spark output disabled
		183 - 255	Auto Heat-up ON, spark output disabled

6 CONSUMABLES

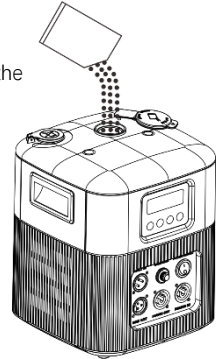
6.1 Fill in Consumable

Fill in consumables through the feed port on the top of the machine depending on the dosage needed.

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



- Open the storage bin 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 255g.

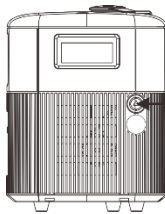


6.2 Step to Clean Clogged Powder

If powder clogging occurs, refer to the diagram on the front panel for the clearing procedure.

Step to clean clogged powder

- To clear clogged powder, rotate the clog clean-out manually in the direction of the arrow.



If clogged, use a 6mm socket to rotate and clear it in the direction of the arrow.

- If clogged, use a 6mm socket to rotate and clear it in the direction of the arrow.

6.3 Precaution For Use

- Make sure to fill the consumable through the feed port 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

D-V3 requires regular maintenance to achieve 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 accumulation 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® D-V3 on a monthly basis to achieve the best performance.

7.2 Storage

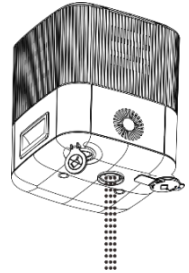
7.2.1 Machine Storage

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 main 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 consumables inside the nozzle.



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



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

7.2.2 Consumables Storage & Recycling

7.2.2.1 Sealed Consumables Storage

Consumables 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 Consumables Recycling

Any unused consumables remaining in the machine can be poured out through the feed port and sealed for storage to prevent moisture absorption.

Avoid using damp consumables. Damp consumables should be dried naturally in a cool, dry environment before they can be used again.

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. Please turn off the machine and contact after-sales service or distributor.

7.3.2 Device Error Menu Map

Errors	Display	Possible Cause
Over heat shutdown	Device Error E0	The heating system temperature is higher than 700 °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
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 80°C

