

USER MANUAL



IP OUTDOOR SPARK

V2.0 2026



**PURE
EFFECTS**
MANUFACTURING SPECIAL EFFECTS



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USER MANUAL.

1. INTRODUCTION.

Dear customers:

Thanks for choose our cold spark machines, pls read the user manual careful before used to get better user experience.

- 1) Due to the manual content limited, pls understand missed some of detail and safety direction in using, and not undertake the responsible of the use result for missing.
- 2) We will continue to focus on products' research, development and technical improvement to create better experience effects, so we reserve the right to make changes to the products, not do inform, the manual just for your reference, the final based on the products you received.

Product introduction

Package Contents:

1 x cold spark machine;
1 x power cord;
1 x DMX signal cable;
1 x Remote
1 x Manual
1 x Hex wrench



Outlook function description					
1	Factory code	5	Power switch	9	Powder hole
2	Display	6	DMX port	10	Spray hole
3	Power port	7	Access hole		
4	Fuse	8	Remote receiver signal		

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Product Parameters			
Fountain Height	3-6m	Fountain direction	Up
Interface	Double DMX, Double AC power	Control mode	DMX / Wireless remote
Clear powder function	Yes	Heating way/ Warm up	Electromagnetic heating; 3-5 minutes
Power	1000W	Housing material	Stainless steel
Fuse	110V/12A, 220V/6A	Size/N.W	250*240*330mm/9kg

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2. OPERATION PANEL

1) Indicator description

READY: Green light-it indicates that the machine is ready to work.

DMX: Blue light-flashing shows that DMX signal is connected, otherwise no signal.

FAULT: Yellow light-the light is on with malfunction.

HEAT: Red light-heating indicator light is on.

NOTED: Red indicator means heating, machine included intelligent interval cycle temperature control, it will start heating automatically (red indicator will light on) once temp. reaches lowest; the red indicator will go off when temp. reaches its max., this belongs to normal phenomenon.



2) Button Instruction

MENU:

1. Address setting: DMX address code when controlled by console (displayed as 3 digits)
2. Temp setting: Fine-tuning setting of heating temperature range. Please do not adjust it at will under normal conditions
3. Backlight setting: LCD screen off setting
4. Language setting: Chinese / English

UP: Up adjustment

DOWN: Down adjustment

ENTER: Confirmation key

3) Display Description

DMX: The displayed value is the DMX address code

TEMP: Indicates the heating temperature

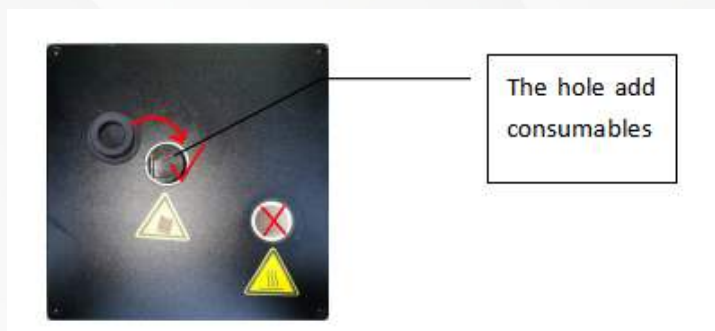
H: The displayed value is the spray gear

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3. OPERATION INSTRUCTIONS

There have two operate mode: Remote controller, DMX 512 console
(when DMX signal is connected, the device defaults to DMX control; when no DMX signal is connectd, it defaults to remote control)

NOTE: Please ensure sufficient consumables before use; After added consumables, cover the rubber plug (don't add to wrong hole), and ensure that the consumables are dry and free of debris.



1) Remote Control Operation Procedure

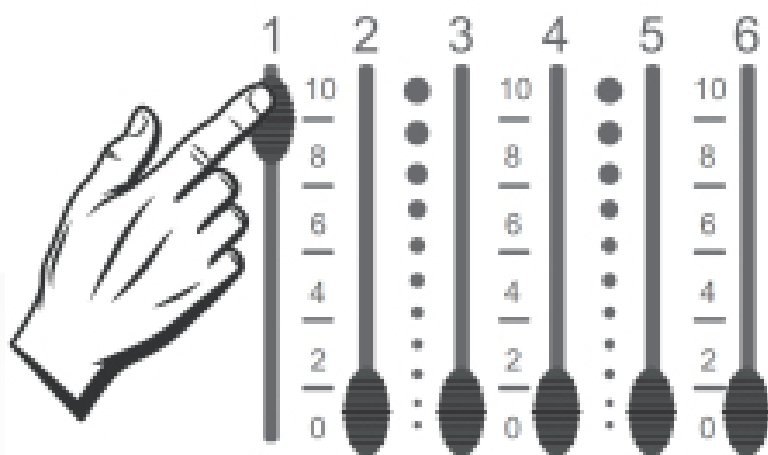
1. Press(Heat on) -- Start heating, red indicator light on
2. Press (HIGH 1/HIGH 2/HIGH 3) button -- to spray fireworks (need to wait until heated up and the green indicator light is on before spraying fireworks)
3. Press (Stop) to stop the fireworks (if don't press, the fireworks will stop automatically after 30 seconds)
4. End of event -- Press "CLE" to clean powder (cleaning operation refer to point 5).



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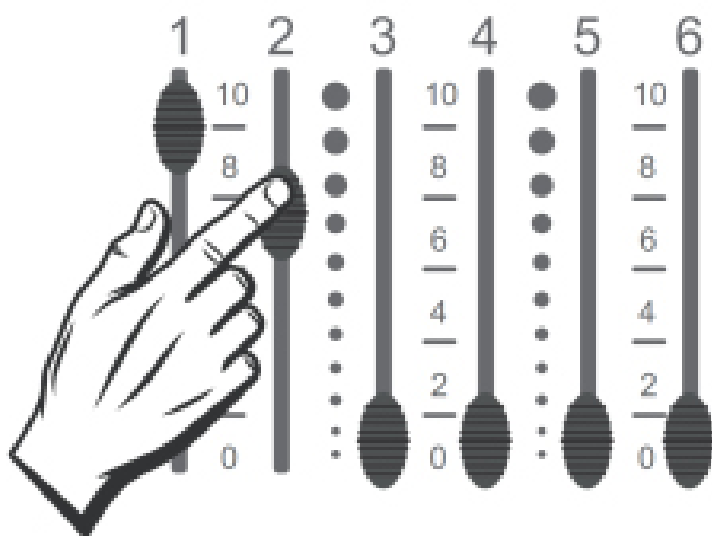
2) Console operation (Occupied 2 channels)

1. Connect DMX signal cable till blue indicator keep lighting, means successful connection
2. The first channel push to top start heating (the display will show dynamic temp. figures in real time), till the green indicator light always in lighting, then can do spray



1st channel push to top, start heating (value: 240-255)

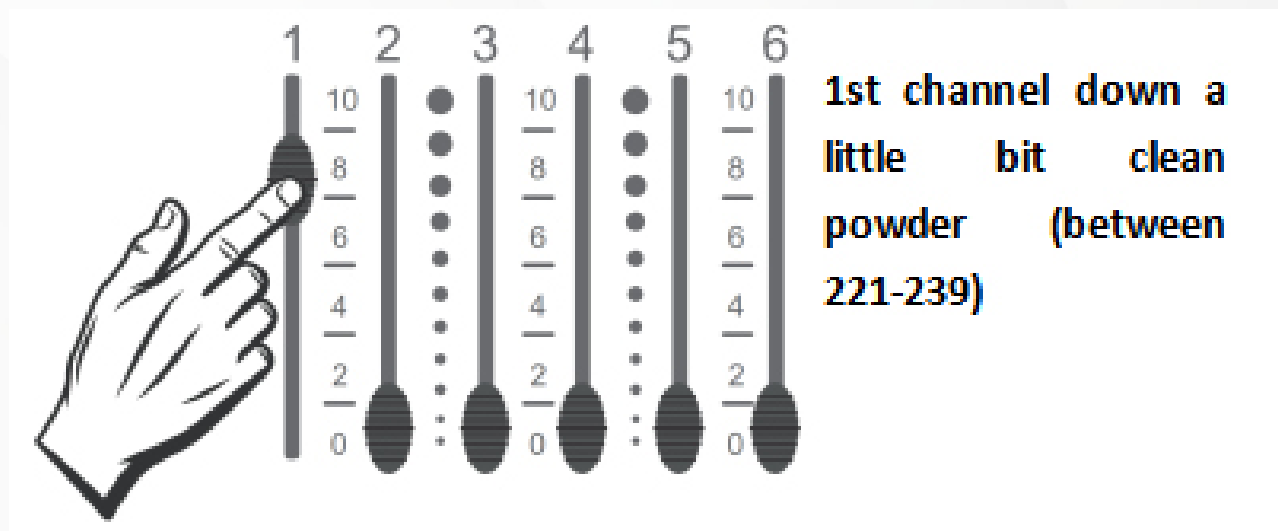
3. Push the second channel do fountain



2nd channel do fountain (adjust the fountain height from up to down)

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1. End of event -- Clean powder



Console channel:

1) The machine uses 3-pin signal line link, included DMX IN and DMX OUT dual interface, can be used for multiple connections, applicable to standard DMX 512 controller

2) DMX channel:

1st channel	Function	Display
0-10	Pre-heat turn off	
11-220	Emergency stop	E57
221-239	Clear Powder	CLE
240-255	Pre-heat turn on	0-500

2nd channel	Function	Display
0-15	Turn off	Off
16-63	Fountain 1	F1
64-111	Fountain 2	F2
112-159	Fountain 3	F3
160-207	Fountain 4	F4
208-255	Fountain 5	F5

4. CONSUMABLES

1) The consumables are classified as:

SMALL: the spark fountain height 1.0-4.0m (error 0.5m), and the spot is rarely dropped, use for indoor.

LARGE: the spark fountain height 3.0-6.0m (error 0.5m), and the sprayed spot has dropped ground, use for outdoor.

2) Consumables choice:

Please select our consumables to avoid affecting the effect of the machine; (No warranty service is provided for machines damage caused by consumables not from our company). Please choose different types of corresponding consumables according to the used occasions.

3) Consumables save:

Consumables should be kept in a dry and sealed environment to prevent moisture. (wet and sundry consumables should not be used).

4) Consumables add:

Pls stop running the machines before add the consumables, to avoid accidental injury. And if found the spray is less, please turn off the machine and observe whether there are consumables in the barrel and add them

5. CLEAN AND MAINTENANCE

1) Clear powder:

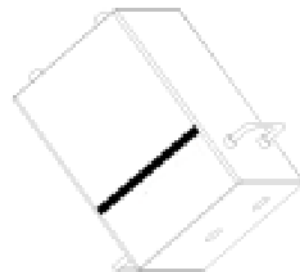
Please must do Clear Powder after each events used, avoid be stuck by inside powder for next use. The series of products designed two automatic modes of cleaning remaining consumables.

Operation step: When the machine still in the preparatory state after the event, clean the powder directly (remote controller press button CLE; DMX console use 1st channel push number between 221-239). The automatic cleaning time is 30 seconds, also can stop the cleaning in advance by manually (remote controller press E-Stop button, the console to stop the cleaning, push number between 1-221 in 1st channel).

If you need to save the equipment again, please pour out the remaining powder inside for separate storage after cleaning, avoid to affect the next use of the remaining powder affected by moisture.

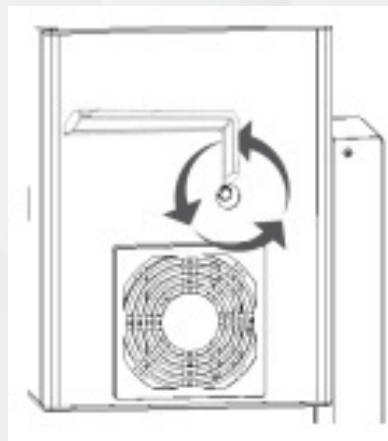
2) External cleaning:

Please wipe the machine gently with soft cotton, to avoid scratch the machine housing



3) Be stuck handling:

If the machine is stuck, please use the configured wrench to turn counterclockwise; Then operate the machine cleaning powder.



6. AFTER-SALES

1) Warranty:

1 Year (subject to the date of manufacture)

2) Each machine is affixed with the factory code. The factory code shall be provided when enjoying the warranty service. It is invalid if torn.

3) When dealing with after-sales problems, it may be necessary to provide some videos or pictures for reference.

Fault light (yellow) display and processing method

Display content	Fault causes	Solution
E01	Heating failure	The heating plate or heater is damaged (first check whether the indicator light on the heating plate is on)
E02/E03	Temperature probe	Check whether the temperature probe has fallen off or if in poor contact, or or replace the temperature probe
E04	Overtemperature protection	The heating plate is not controlled. Replace the heating plate
E05	Abnormal mains frequency	Check that the power cord/power connector and other wires are not soldered abnormally

Note: After the fault light is on, please turn off the power supply of the machine and stop operation in time, and contact the after-sales service to avoid additional losses. After the fault light is on, you need to restart the machine until the fault light is off.

7. WARNINGS

	Warning: high temperature at exit.
	The hole for adding powder
	The sign is to remind users of paying attention to risk and security. Please note that the machines are not meant to be a continuous duration effect. The maximum running time is 30 second and can be repeated but should not be done to overheat the machine.
	Eye protection warning sign is to remind you of protecting the eyes during the machine operation.
	Warning: Dangerous voltages are present in this machine when electrical power is applied. There is a danger of injury from electric shock. Under no circumstances are you to attempt to open the machine or attempt to remove or adjust any components fitted within the machine. Only fully trained engineers can open the equipment.
	Warning: The moisture warning indicates that the operator should keep the spray machine and controller in dry, and do not use it in rain or snow.
Cleaning	After the performance, it should be observed whether there is nodulation in the spray hole, if there is, it needs to be cleaned up, nodulation will affect the spray effect, even damage the machine. After the performance, the cleaning function should be used to remove the residual consumables in the spray machine pipeline. Before transportation, the residual consumables in the storage tank of the spray machine should be poured out, and be stored in a dry and sealed environment.

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- 1)** The machine built-in protection procedures, will stop auto. once do fountain over 30s each time. If need it to work again, please operate the second channel again. The continuous shooting time is too long, the internal temperature will rise sharply and cause permanent damage.
- 2)** If machine not spray normally or other abnormal conditions during use, please stop the machine operation immediately and contact the after-sales service.
- 3)** After use the machines, do not immediately turn off the power. The heat-dissipating fan should take out the internal air when the power is on. Otherwise, the internal heat is quickly transmitted to the surface of housing.
- 4)** Please place the equipment in an open place and keep a safe distance of more than 5 meters from the personnel.
- 5)** Make sure the device is off before filling the consumables.
- 6)** If the consumables are accidentally ignited, please use the sand to extinguish, do not use water.
- 7)** Damage caused by improper use or human factors is not covered by the warranty.



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