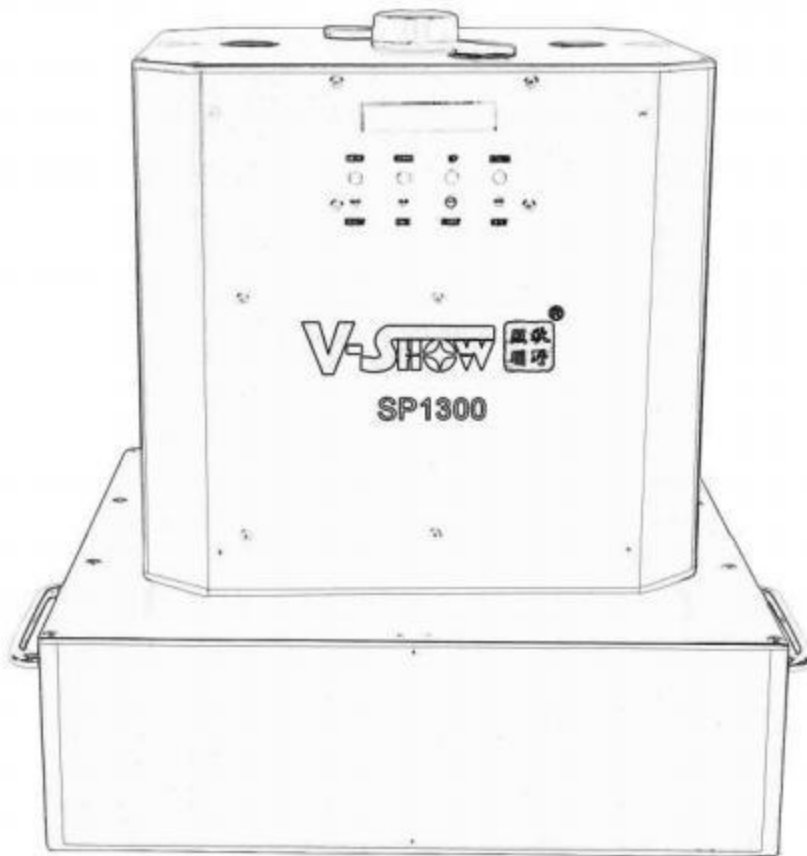


# SP1300

## User Manual



**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.

## 1、 Package Contents

- 1 x spin spark machine;
- 1 x power cord;
- 1 x signal cable;

## 2、 DMX Instruction

- 1) The machine adopts 3-pin signal wire connection, with DMX IN and DMX OUT double interfaces, which can be used for multiple connections and is suitable for standard 512 signal control.
- 2) DMX occupied channel and description: DMX control included two channel mode and four channel mode.

### 2-channel common mode

1 <sup>st</sup> channel	Function
0-10	Pre-heat turn off
11-220	Emergency stop
221-239	Clear Powder
240-255	Pre-heat turn on
2 <sup>nd</sup> channel	Function
0-15	Fountain off
16-55	Not spin, Fountain 1
56-95	Not spin, Fountain 2
96-135	Not spin, Fountain 3
136-175	spin, Fountain 1
176-215	spin, Fountain 2
216-255	spin, Fountain 3

#### 4-channel professional mode

1 <sup>st</sup> channel	Function
0-10	Pre-heat turn off
11-220	Emergency stop
221-239	Clear Powder
240-255	Pre-heat turn on
2 <sup>nd</sup> channel	Function (Nozzle 1)
0-15	Nozzle 1 fountain off
16-31	Not spin, Fountain 1
64-111	Not spin, Fountain 2
112-159	Not spin, Fountain 3
160-207	Not spin, Fountain 4
208-255	Not spin, Fountain 5
3 <sup>rd</sup> channel	Function (Nozzle 2)
0-15	Nozzle 2 fountain off
16-31	Not spin, Fountain 1
64-111	Not spin, Fountain 2
112-159	Not spin, Fountain 3
160-207	Not spin, Fountain 4
208-255	Not spin, Fountain 5
4 <sup>th</sup> channel	Function (Spinning adjust)
0-15	Not spin
16-135	Clockwise spin (60-100BPM)
240-255	Anticlockwise spin (60-100BPM)

### 3、 Operation Panel



#### 1) LCD Display Area:

1----Means nozzle 1 fountain, the following number is heating temp.of nozzle 1.

DMX----DMX control, the following number is DMX address code.

RPM----Spinning speed, the following number is spinning speed.

2----Means nozzle 2 fountain, the following number is heating temp.of nozzle 2.

#### 2) Indicator Description

**READY:** Green light When the "READY" green light turns from flashing into light on, 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 any malfunction.

**HEAT:** Red light When the machine is heating, signal light is on.

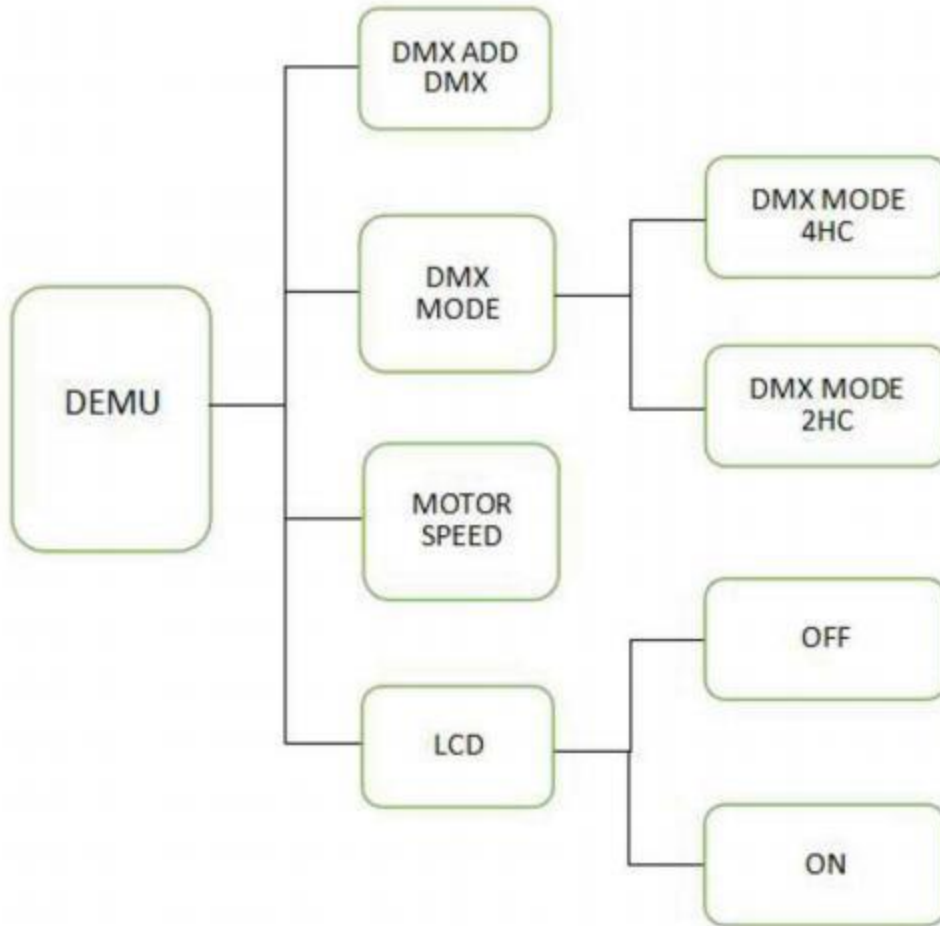
#### 3) Control Button Area:

**MENU:** DMX mode setting/DMX address setting/Spin speed setting/LCD backlight setting

**DOWN:** parameter down

**UP:** parameter up

**ENTER:** confirm and save parameters



**Press ENTER each time you make a selection**

## 4、 Operation Instruction

This product supports DMX console operation (with 3 core and 5 core interface)

Please ensure sufficient consumables before use; After added consumables, cover the rubber plug (don't add to wrong fountain hole)



The hole add consumables

### 1) Console operation

① Connect the power cable and DMX signal cable of machine, turn on green power button, DMX blue indicator light keep in flashing, means DMX signal connected successful.

② The first channel push to top start heating, till the green indicator light always in lighting, then can do fountain.



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

③ Push the second channel do fountain.



2<sup>nd</sup> channel do fountain

④ End of event -- Clean powder (cleaning operation refer to point 7)



1<sup>st</sup> channel down a little bit clean powder (between 221-239)

For 4-channel professional mode, see DMX Channel address code

### **Warm tips:**

- 1; To ensure the fountain effects, the interval between two fountain is 15 seconds;
- 2; To avoid be stuck by powder, after do fountain many times, pls do "Clear Powder" once.

## **5、 Consumables**

### **1) The consumables are classified as:**

SMALL: the spark fountain height 1.0-3.5m (error 0.5m), and the spot is rarely dropped,use for indoor.

LARGE: the spark fountain height 2.0-5.0m (error 0.5m), and the sprayed spot has dropped ground,use for outdoor.

**2) Consumables choice:** Consumables are the customized formula for the test of our machines. 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).

**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.

## **6、 Clean and Maintenance**

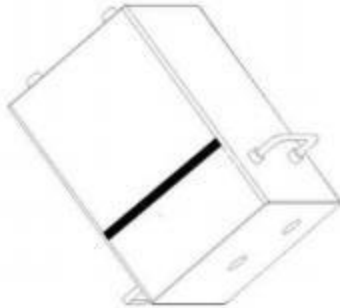
**1)Clear powder:** Pls must do Clear Powder after each events used, avoid be stuck by inside powder for next use. The series of products designed two automatic modes of cleaning remaining consumables.

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 1<sup>st</sup> channel push number between 221-239 ). The automatic cleaning time is 30 seconds, also can stop the cleaning in advance by

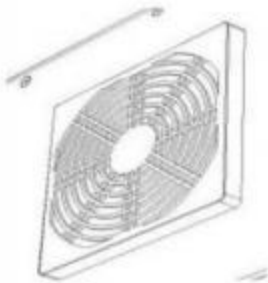


manually (remote controller press HEAT button, the console to stop the cleaning, push number between 1-221 in 1<sup>st</sup> channel ). The equipment will jump to non-working state automatically after cleaning.

If you need to save the equipment, 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)Dust net cleaning:** Please clean the dust net regularly, to avoid block the dust net and influence heat dissipation of machine. (The dust screen can be removed directly from the outside)



**3)External cleaning:** Please wipe the machine gently with soft cotton, to avoid scratch the machine housing.

## 7、 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) It's may need provide some videos or pictures to confirm the problems.





### Fault light (yellow) display and processing method

Display content	Fault causes	Solution
E01	Heating failure	1: Check if the heat dissipation plate is normal. 2: Replace the heat dissipation plate or heating board.
E02	Heating isn't be controlled	Replace the heating board.
E03	The internal temperature of the machine is extremely high	1: Check the cooling fan. 2: stop heating and operating, restart after 10 minutes.
E04	The air blower does not work	1: Check if there is any foreign object falling into the nozzle. 2: Replace the air blower motor.
E05	The sensor is faulty	1: Check sensor socket. 2: replace the sensor.
E6	Anti-tilt safety function is enabled	1: Pls restart the machine, don't tilt machine again after power on.
E07	Safety protection of blower motor	Shut down the machine to check whether the blower motor is working properly

**Note:** when the fault light is on, pls turn off the power of machine in time, to avoid extra damage, and users are expected to restart the machine until the fault light is off.

## 8、Warnings and Cautions

	Warning: High temperature warning, high temperature at exit.
	The hole for adding powder

	<p>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.</p>
	<p>Eye protection warning sign is to remind you of protecting the eyes during the machine operation.</p>
	<p>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.</p>
	<p>Use caution so that any liquids do not wet the machine. Keep the machine and controller dry and not use rainy or snowy days unless covered.</p>
<p><b>Cleaning</b></p>	<p>Please inspect fountain nozzle before use and confirm whether there are accumulation granulates. If it does, please clean out by inverting the machine to clean out port.</p>

- 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. Suggest not do continuous shooting over 1minutes.
- 2) Max connection is 6 pieces via power connecting cables, too many devices work together will cause damage or fire.
- 3) If there is no spark out with enough consumables or other abnormal situation, pls stop running machine and contact after-sale service for help.
- 4) 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.
- 5) Please place the equipment in an open place and keep a safe distance of

more than 5 meters from the personnel.

6) Make sure the device is off before filling the consumables

7) If the consumables are accidentally ignited, please use the sand to extinguish, do not use water.

8) Damage caused by improper use or human factors is not covered by the warranty

**Attached as below**

# Spin Spark



Outlook function description					
1	Display	4	Power port	7	Spray hole
2	Parameter label	5	Power switch	8	Powder hole
3	DMX port	6	Fuse		

Product Parameters			
<b>Working Height</b>	1-5m	<b>Control mode</b>	DMX
<b>Fountain direction</b>	360°	<b>Housing material</b>	Aluminum
<b>Working</b>	-10-50°C	<b>N.W</b>	20kgs

<b>Temperature</b>			
<b>Power</b>	1300W	<b>Dimension</b>	365*365*400mm
<b>Fuse</b>	110V/16A, 220V/10A	<b>Warranty</b>	1 year
<b>Interface</b>	Double DMX input, Double AC power		