Cold Spark Machine
User Manual

Model: 10meters waterproof spark machine

1. Brief Introduction

Package Contents:

1 x COLD SPARK MACHINE;

1 x power cord;

1 x signal cable;

1 x hex key.

Outlook function description							
1	Display	4	Power port	7	Spray hole
2	Fuse	5	3PIN/5PIN DMX port	8	Safety ring
3	Power switch	6	Powder hole	9	Access hole

Product parameters				
Working height	4-10m	**Spray direction**	Up
Interface	Double DMX and power port	**Control mode**	DMX
Power	1700w 16A(110V) 900w 8A (220V)	**Heating method**	Electromagnetic heating
Powder box capacity	550g	**Housing material**	Aluminum
Fuse	110V/12A, 220V/6A	**Size/N.W**	460*370*300mm 23kg

2.   Operation Panel

READY: Green light　　When the "READY" green light turns from flashing into light on, it indicates that the machine is ready to work. (The first use pls heat to green light always light on)

DMX: Blue light　　Flashing shows that DMX signal is connected, otherwise disconnected.

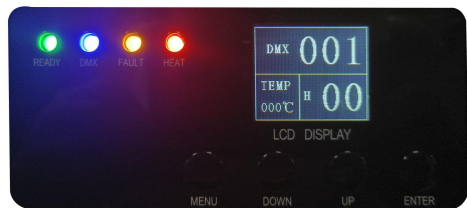**FAULT:** Yellow light　　The light is on with any malfunction.

HEAT: Red light　　Heating indicator light, heating is often on; when reaching the heating temp will not be on (temp belongs to the interval constant temp, when the temp reaches the peak, the red light will not be on, when the temp reaches the interval low temp, the heating will automatically start, and the red light will be on)

MENU: Menu

DOWN: Choose below

UP: Choose above

ENTER: Confirm

Display area show: DMX address code　　**TEMP:** temperature　　**H:** code

Menu adjustment:

Set DMX Address: Adjust DMX address code

Auto Clear Delay: Automatically clear delay setting (required in dedicated adjustment under the guidance of industry personnel, default setting 0.3)

Set Temperature: Heating temp setting (default 580-640)
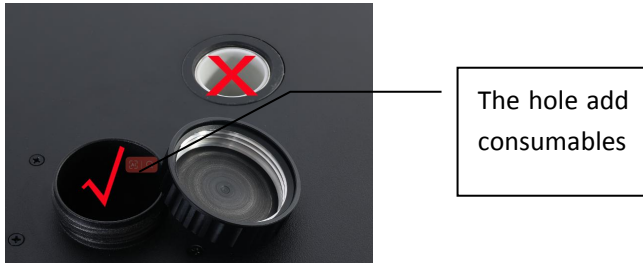

LCD Backlight: Adjust backlight of screen

(to OFF display will light on; to ON display will dark after 30s without any operation)

Note：Each selection all need press ENTER to do confirmation, then can slip to next step.

3.　Operate Device Instruction

This device only support DMX control mode, with 3PIN and 5PIN dual interfaces. Pls ensure pour into enough consumables before use; close the box lid after adding consumables(DON'T TO ADD THE WRONG HOLE)
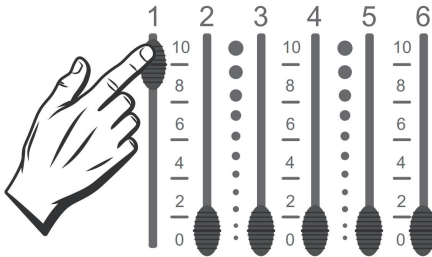

The hole add consumables

Note: Pls strictly use the special consumables from our factory.

1) DMX Operation

DMX Channel (2CH)					
1st channel value	0-10	11-220	221-239	240-255		
Function	Pre-heat turn off	Stop fountain	Clear powder	Pre-heat turn on		
Display show	Add. code	E57	CLE	0-500		
2nd channel value	0-15	16-31	64-111	112-159	160-207	208-255
Function	Turn off	Fountain 1	Fountain 2	Fountain 3	Fountain 4	Fountain 5
Display show	OFF	F1	F2	F3	F4	F5

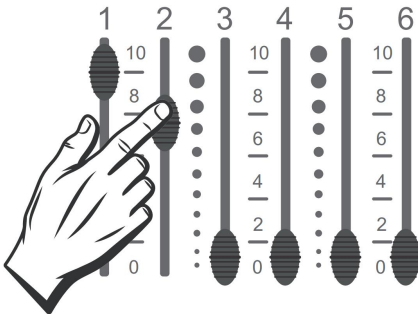## Console operation process

❶ Connect DMX signal cable, the DMX blue indicator light keep in flashing means DMX signal connected successful.

❷ The 1st channel push to top start heating(display will show real dynamic temp value), till green indicator light always in lighting, then can do fountain.
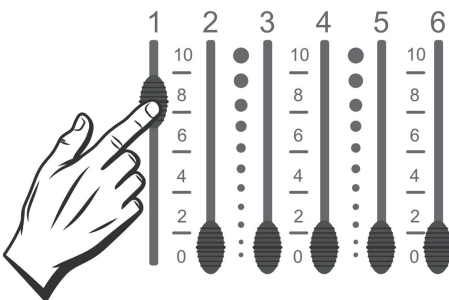

1st channel push to top, start heating. (value 240-255)

❸ Push to 2nd channel do fountain.

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

❹ End of event -- Clean powder (details refer to point 4）

1st channel down a little bit clean powder (value 221-239)

4.   Clean and Maintenance

1) **Clear Powder**：After each event finished, must do clear powder operation to avoid be stuck of next time use.

Operating steps: The machine still in readiness state after event finished, direct operate clear powder, the console 1st channel push to value 221-339; Automatic cleaning tim

cleaning in advance by manual, use console 1st channel push to value 1-221; The machine will automatically jump to the non-working state after the cleaning is finished.
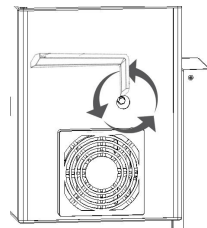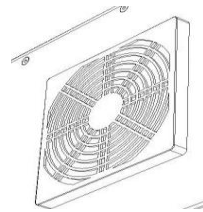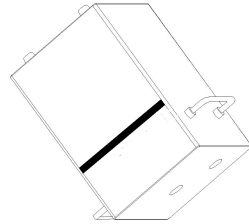
If you need to store the equipment again, be sure to pour out the remaining materials for separate storage, so as to avoid moisture affecting the remaining materials for next time use.

2) **Dust net cleaning**：Pls 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**：Pls wipe the machine gently with soft cotton, to avoid scratch the machine housing.

4) **Be stuck handing**：If the machine cannot do spray because of be stuck by inside powder, please open the right rubber plug, use the randomly configured hex socket wrench to force counterclockwise turn till loose, and then operate the clear powder.

5. 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) Pls provide some videos or pictures as reference to help us solve the after-sales problems.

Fault light (yellow) display and processing method

Display content	Fault causes	Solution
E2	Heating over temperature protection	1：Check the cooling fan if working normal; 2：Check the heating panel with sink heat contact if normal; 3：Replace heating panel.
E3	Heating panel no supply power	1：Replace the mainboard
E5	The sensor is faulty	1：Check sensor socket; 2: replace the sensor.
E6	The anti-tilt safety function is activated	1：Restart power button,pls do not tilt the machine after turning on the power to activate the anti-tilt function; 2：Disable the protection function manually.
E7	Blower starts with overcurrent protection	1：Check whether any sundries has fallen into the blower motor; 2：Check the connector of 110/220V in mainboard if dropped; 3：Replace the blower motor.
E8	Blower starts without current protection	1：Manually turn off the protection function and check whether it will still be protected in cleaning state; 2：Replace the main control board.

Remark 1: E code means fault code, when it show the yellow light will also on, the machine stops working automatically.

Remark 2: After the fault light is on, pls turn off the power supply of machine and stop operation in time, then contact the after-sales service to avoid additional risks and losses; After the fault light is on, need to restart the machine until the fault light is off.

6.　　Consumables

1) **Consumables：**

The fountain height 4.0-10.0meters (error 0.5m).

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：** When found that the spray is less, please turn off the machine and observe whether there are consumables in the barrel and add them.

7.　　Warnings

⚠	High temperature warning, high temperature at exit.
⚠	The hole add consumables.
⚠	The purpose of the mark is to remind users of dangers and provide important information security statements for users to operate the spray machine safely and effectively. Examples are described as follows: Warning: This warning alerts you to harmful or potentially

	dangerous operations, gives a description of the risks and the consequences of ignoring them.
	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 reminds the operator to keep the spray machine and controller in dry and not to use them in rain or snow day.
Cleaning	After events, it should be observed whether there is nodulation in the spray hole, if it does, pls clean up to keep the effects of next time. Also, the cleaning function should be used to remove the residual consumables of the spray machine pipeline. Before transportation, pls pour out remain consumables and keep them in dry and sealed.

1) The machine built-in protection program, a single continuous spray after more than 30 seconds will automatically stop, if you need to continue to trigger the spray function again. Continuous spraying for too long will cause a sharp internal heating, which may cause damage or permanent damage to the internal structural parts of the machine.

2) If the spray nozzle does 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 the casing.

4) Please place the equipment in an open place, keep a safe distance of more than 5 meters from the personnel and keep away from flammable materials.

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.