Avilexx

SPARKUS 4

User Manual



1、 Brief Introduction

Package Contents:

1 x Cold Spark Machine;

1 x Power Cord;

1 x Signal Cable;

1 x Spray Gun;



Appearance and function description					
1	Display	4	Power switch	7	Safety ring
2	Power plug	5	DMX interface	8	Spray hole
3	Fuse	6	DMX interface	9	Nozzle Connector

Product parameters			
Working height	10 M	**Spray direction**	Up
Interface	Double DMX and Power port	**Control mode**	DMX
Power	740W	**Heating method**	Electromagnetic heating
Powder box capacity	200g	**Housing material**	Aluminum
Fuse	110V/10A, 220V/6A	**Size/N.W**	390*348*296mm;22kg

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.

DMX：Blue light Flashing blue light means there is DMX signal, no display means DMX signal is disconnected; steady light means there is signal in slave mode.

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:** Adjust downward **UP:** Adjust upward

ENTER: Confirm

Display area show: DMX address code **TEMP:** Temperature

P：Air tank pressure value

Menu adjustment:



1. Set DMX Address：DMX address code adjustment.
2. Material Select：Gas tank pressure selection.
3. Set Temperature：Heating temperature range setting.

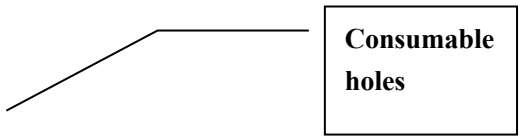
4. LCD Backlight：Screen light-off adjustment (when adjusted to “Off”, the display will always be on; When adjusted to “ON”, the display will automatically turn off if there is no operation for 30 seconds)

Note: Each selection needs to be confirmed by pressing the ENTER key before proceeding to the next step.

3、 Equipment operating instructions

This device only supports DMX control and has 3-core and 5-core dual interfaces.Please make sure there are enough consumables before use; close the lid of the material box after adding consumables (Remember don’t add the wrong holes)





Note: For consumables, please strictly use the special consumables configured by our factory.

1) DMX Operation

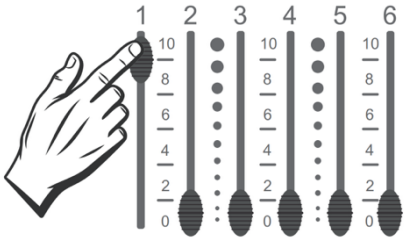
DMX Channel (2 CH)				
1st channel value	0-10	11-220	221-239	240-255
Function	Turn off heating + inflation	Emergency stop	Auto clearing of material	Heating + inflating
2nd channel value	0-112	113-255		

Function	Stop spraying	Spray		

2）Operation process

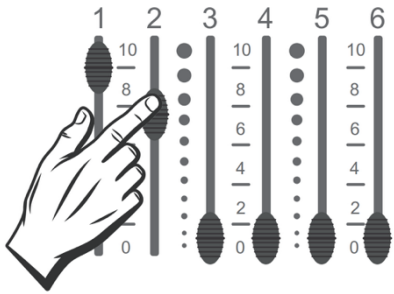
❶ Connect the DMX signal cable. If the DMX blue indicator light flashes, the DMX signal connection is successful.

❷ Channel 1 starts to heat and inflate (the display will display dynamic temperature numbers in real time); wait until the green indicator light stays on to complete the heating and spray.



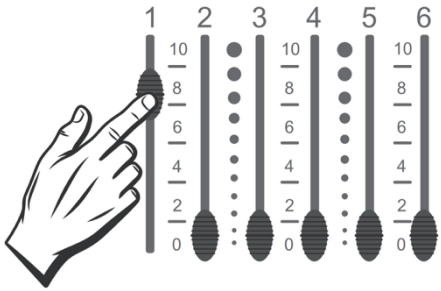
Channel 1 is to start heating + inflation (Value 240-255)

❸Push 2-channel can achieve spray.



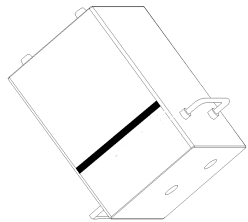
Channel 2 is spraying (113-255)

❹ End of activity -- operation and cleaning (please refer to item 4 for details)



1 通道往下一点（数值在 221-239 之间）

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 time is 30s, also can stop 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) **External cleaning：** Pls wipe the machine gently with soft cotton, to avoid scratch the machine housing.

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 treatment methods

Display content	Fault causes	Solution
E1	The target air pressure was not reached within 20 seconds.	1：Air leakage, check the air pumping system
E3	No pressure display	1：The air pressure sensor is not plugged in or is damaged.
E5	The air pressure does not drop after spraying	The air release solenoid valve is not inserted or damaged.
E6	The power supply voltage is unstable	Switching power supply is broken
E7	Over temperature protection	Replace the heating plate test
E8	Can't detect temperature	Thermocouple unplugged or damaged

Note: E code is a fault code. When it occurs, the machine will light up with a yellow fault light and the machine will automatically stop working.

Note: After the fault light comes on, please turn off the power of the machine to stop running and contact after-sales service to avoid additional risks and losses; after the fault light comes on, you need to restart the machine until the fault light goes out before the machine can work normally.

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）Do not spray more than 10 times in a row as it may damage the machine.

2）If during use, the spray nozzle does not spray flowers normally or there are other abnormal conditions, please stop the machine immediately and contact after-sales service.

3）Do not turn off the power immediately after spraying. You should turn off the heating and let the cooling fan draw out the hot air inside the machine while the machine is powered on. Do not touch the spray barrel directly before cooling to prevent burns

4）Please place the device in an open area for use, keep a safe distance of at least 5 meters from people, and keep away from flammable materials.

5）Please make sure the equipment is turned off before adding materials.

6）If the consumable is accidentally ignited, use sand to extinguish it, do not use water.

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