



TCMFX
SPARKS
5M

User Manual
English

TCM707
Version I

Disclaimer

Thank you for purchasing the Cold Sparks Machine.

WARNING

Read this manual carefully before installing and/or using this the TCMFX Cold Sparks Machine.

Failure to follow the instructions in this manual may result in personal injury and/or damage to the product.

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The General Terms and Conditions are available upon request, free of charge. While this manual has been compiled with great care to provide an accurate and complete description of all relevant components, errors or inaccuracies may still occur. If you identify any errors or inaccuracies, we appreciate it if you inform us. Your feedback helps us improve our documentation.

General Safety

WARNING!

Read the manual carefully before using the Cold Sparks Machine.

The Confetti Maker ® is not liable for injury, damage and / or excessive wear resulting from improper maintenance, improper use or modifications to the device.

If you have any questions, issues or problems that do not get discussed in this guide, please tell your supervisor or call/e-mail the technical support from The Confetti Maker®.

Cold Sparks Machine and the manual may not be modified without permission of The Confetti Maker®.

In case of damage or problems, always consult The Confetti Maker® as soon as possible.

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Specifications

Input **TCMFX SPARK POWDER 5M**

Output 1-5m
Weight 5.9 KG

Size 205 x 205 x 265mm

Control Mode DMX/Remote

Voltage 110V/10A, 220V/6A

Power 650w 6A (110V)

IDEAL ENVIRONMENTAL VALUES

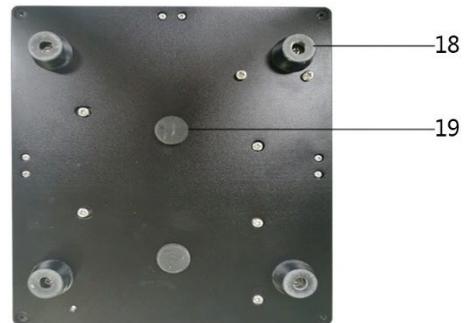
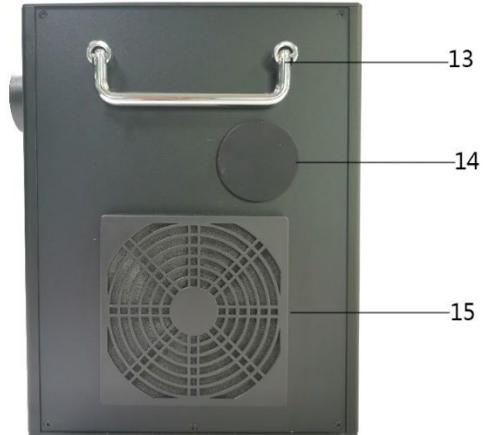
Temperature -10°C, -50 °C

Humidity

Keep away from:

- Dust
- Corrosive gasses
- High concentrations of organic gasses.

Parts



1. QC	9. Parameter Label
2. Cooling Fan	10. Factory Code
3. Indicator	11. DMX Code
4. Power Port	12. Fuse
5. Power Switch	13. Foldable Handle
6. Remote Receiver Signal	14. Access Hole
7. Display	15. Dust Net
8. Adjust Buttons	16. Spray Hole

17. Powder Hole

18. Pads

19. Cleaning Hole

Package Contents

Included in delivery:

1 x cold spark machine;
1 x power cord;
1 x signal cable;
1 x remote controller

DMX Instruction

The machine adopts 3-pin signal wire connection (5-pin can be customized), with DMX IN and DMX OUT double interfaces, which can be used for multiple connections and is suitable for standard 512 signal control.

Please refer to attached for the channel occupied by DMX and it's description

DMX address code adjustment.



△ : Increases DMX address code; long press helps increase fast.

▽ : decreases DMX address code; long press helps decrease fast.

Note: When used DMX 512 signal control mode, each device is connected through DMX signal socket INPUT and OUTPUT of the device. The 3-pin XLRXL plug terminals of the connected device must correspond to each other. It is recommended to use DMX signal terminators when connecting device signals, and use double stranded shielded cables can avoid signal interference.

Indicator Description



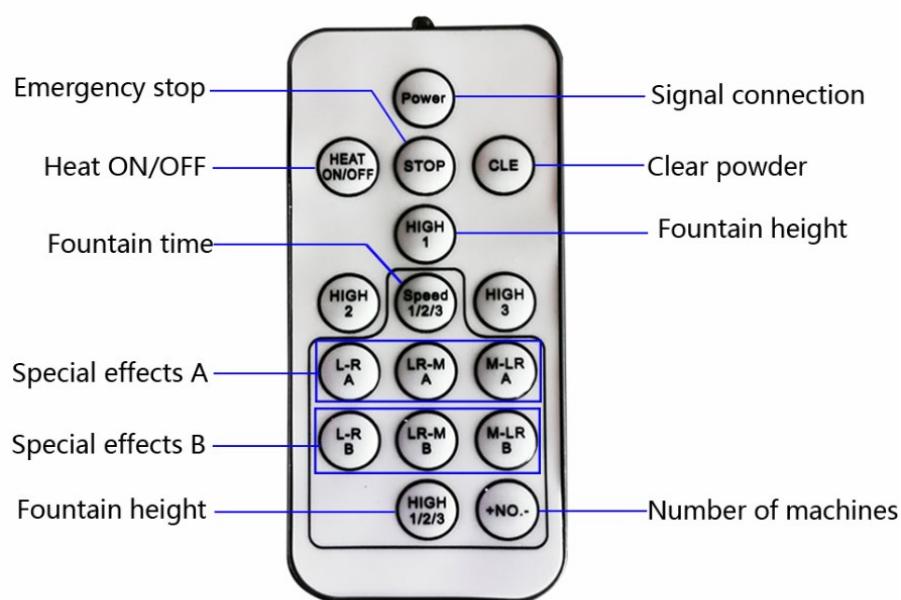
READY: Green light when the "READY" green light turns from flashing into light on, it indicates that the machine is ready to work.

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

FAULT: Yellow light indicates the light is on with any malfunction.

HEAT : Red light indicates when the machine is heating, signal light is on.

REMOTE CONTROLLER



①Power : (signal connection) Press 1 second onto the machine to connect the machine, the display will show "FHH" once connected, then "FHH" will change to the special effects address as shown below, that's connected successful. To disconnect, hold the button for 3 seconds, the display will show "OFF", then change to "001" as shown below:

Signal connected successful : →

Signal Disconnected : →



②HEAT ON/OFF: (Heat ON/OFF) press button START to heat, red indicator light will light up, the display will show a heating temperature; Hold 3 seconds to stop heating, the heat indicator is off, show the address code of the special effects.

③STOP: (Emergency stop) stop the fountain.

④CLE: (Clear powder) the machine will clear the powder 30seconds automatically.(pour out the rest powder from powder box of machine before using this function)

⑤HIGH1/HIGH2/HIGH3: (Fountain height) high 1 - fountain lowest, high 3- fountain highest

⑥Speed: (Fountain time adjustment) multi-machines do fountain effects, the fountain time of each machine is 1-3 seconds, can be adjusted by short press before using the fountain.

⑦L-R A: from left to right each machine do fountain on sequence.

⑧LR-M A: from left & right side to middle, there have two machines fire fountain at the same time.

⑨M-LR A: from middle to left & right side, there have two machines fire fountain at the same time.

⑩L-R B: from left to right increase one machine do fountain, till all the machines in fountain.

⑪LR-M B: from left & right side to middle increase two machines do fountain, till all the machines in fountain.

⑫M-LR B: from middle to left & right side increase two machines do fountain,till all the machines in fountain.

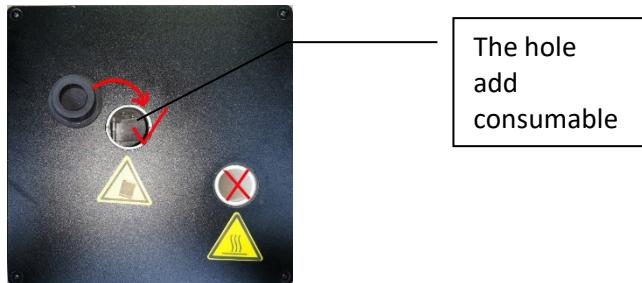
⑬HIGH1/2/3: The special effects can adjust fountain height, will show different fountain height press every-time.

⑭+NO.-: the number of machines be adjusted, how many machines you need used, then adjust the same number as used, the maximum add to fifteen machine

OPERATION INSTRUCTION

There have two operate modes: DMX 512 console, Remote controller.

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

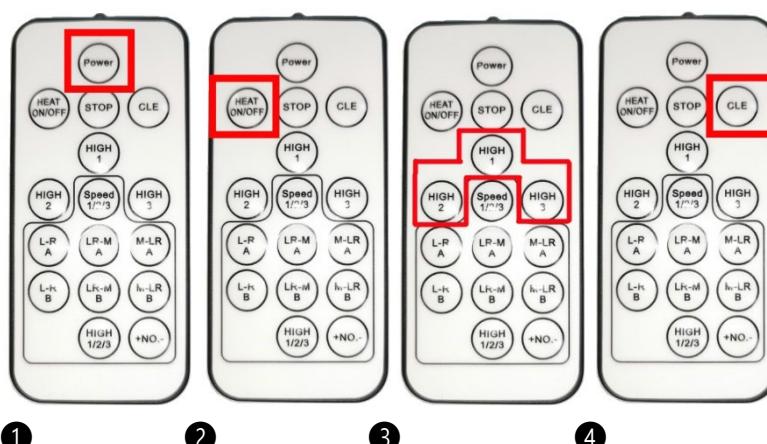


The hole
add
consumable

1) How to use remote for the fountain:

- ① Press power for a short second to connect the machine, the display will show "FHH" when connected successful.
- ② Press "HEAT ON/OFF" start to heat till green indicator lights up. (The display will show real-time temperature)
- ③ Press "HIGH1/HIGH2/HIGH3" for fountain.
- ④ At the end of the event -- Press "CLE" to clean powder (cleaning operation refer to point 7)

The diagram as follows:



2) Use remote do special effects fountain:

- ① Press "Power" to connect the machine, the display show "FHH" that be connected successful.



- ② To adjust each machine special effects address code by each machine address code button as picture show; The display will show number or letter(A、B、C、D、E、F are correspond number 10 to 15 respectively), like below picture show "3" means this is the third machine.



- ③ Press "+NO.-" adjust the number of machines be used, the display will show number or letter(A、B、C、D、E、F are correspond number 10 to 15 respectively), as below picture show the right number "4" means total machines qty, number must be adjusted to meet you need used machines qty.



- ④ Press "Heat ON/OFF" button start to heat, till green indicator light always in lighting, then can do fountain, the display will show heating temperature.

- ⑤ Press special effects A or B buttons will have related special effects.

- ⑥ End of event -- Press "CLE" do clean powder (cleaning operation refer to point 7)

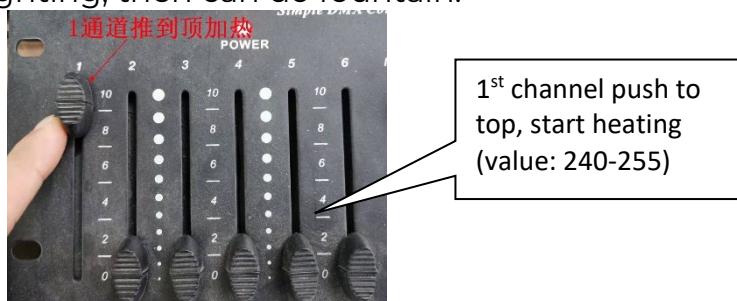
Eg: We have eight machines who can do special effects, as shown in the program below:

F18 F28 F38 F48 F58 F68 F78 F88

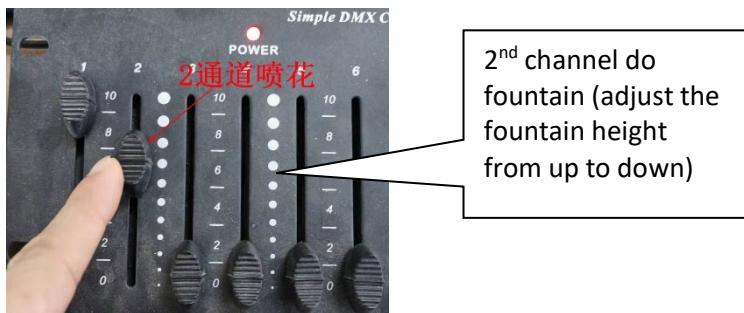
3) Console operation(Occupied 2 channels):

- 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.



- ③ Push the second channel do fountain.



④ At the end of the event -- Clean powder (cleaning operation refer to point 7)

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)

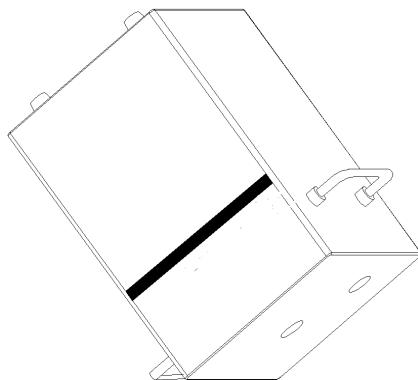
1) **Consumables add:** Pls stop running the machines before add the consumables, to avoid accidental injury.

Cleaning and Maintenance

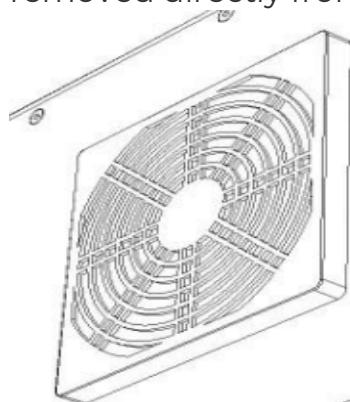
Clear powder: Owner must clear powder after each events used, avoid it being stuck by next use. The series of products designed two automatic modes of cleaning remaining consumables.

Operation step: When the machine is 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, U can also stop the cleaning in advance by manually (remote controller press HEAT button, the console to stop the cleaning, push number between 1-221 in 1st 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.



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



External cleaning: Please wipe the machine gently with soft cotton, to avoid scratches on the machine housing.

After-sales

- 1) Warranty: 2 years (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.
It's possible to provide some videos or pictures to confirm the problems.

Fault light (yellow) display and processing method

Display content	Fault causes	Solution
E2	Heating is not controlled / The internal temperature of the machine is extremely high	1. Check the cooling fan 2. Check if the heat dissipation plate is normal. 3. Replace the heat dissipation plate or heating board.
E3	The heating electronic control panel has no power supply	Replace the electronic master control board
E5	The sensor is faulty	1: Check sensor socket. 2: replace the sensor.
E6	Anti-tilt safety function is enabled	1: Restart the machine, don't tilt machine again after power turned on. 2: Disable the protection function
E7/E8	Safety protection of blower motor	Shut down the machine to check whether the blower motor is working properly

The display error code will be accompanied by a yellow fault indicator light, and the machine will stop working

Note : A brief display of E57 indicates that you acted on the stop key, not an error code

Warnings and Cautions

	Warning: High temperature 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.
	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.
Cleaning	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.

- 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 4 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.

DECLARATION OF CONFORMITY

Manufacturer:

The Confetti Maker

Product:

TCMFX Cold Sparks Machine

We declare that the above products meet the following European directives and standards:

- NEN-EN-ISO 12100:2010, Safety of machinery - General principles for design - Risk assessment and risk reduction.
- NEN-EN-IEC 60204:2010, Safety of machinery - Electrical equipment of machines - Part 1: General

requirements.

- NEN-EN-IEC 61000-6-3:2007/A1:2011, Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and lightindustrial environments.
- NEN-EN-ISO 13732-3:2008, Ergonomics of the thermal environment - Methods for the assessment of human responses to contact with surfaces - Part 3: Cold surfaces

- Low Voltage Directive 2006/42/EC
- EMC Directive 2004/108/EC
- RoHS Directive 2002/95/EC



Year of Manufacturing:

On product

Name:

The Confetti Maker

Place:

Rotterdam

Date:

11-07-2017

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