



TCMFX
SPARKS X

User Manual
English

TCM706
Version I

Januari 2025

Disclaimer

Thank you for purchasing the TCMFX Sparks X.

WARNING

Read this manual carefully before installing and/or using this the TCMFX CO² LED.

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

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Please contact your supplier for additional information regarding maintenance and repair. Please be aware that The Confetti Maker® shall not be held liable by the user for any damages, losses or third party claims arising from any uses of this product.

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The Confetti Maker® accepts no liability for claims from third parties arising from unauthorized use, use other than stated in this manual, or use that does not comply with the General Terms and Conditions, as registered with the Chamber of Commerce.

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 TCMFX Sparks X.

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®.

TCMFX Sparks X 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

Weight	23 KG
Size	46 x 37 x 30 cm (L x W x H)
Voltage	110V/12A, 220V/6A
Power	1700w 16A (110V) 900w 8A (220V)
Working height	4 - 10m
Interface	Double DMX & Power Port
Powder box capacity	550g
Spray direction	Up
Control mode	DMX
Heating method	Electromagnetic heating
Housing material	Aluminium

IDEAL ENVIRONMENTAL VALUES

Temperature	0 – 45 °C
Humidity	max. 90%

Keep away from:

- Dust
- Corrosive gasses
- High concentrations of organic gasses

Using the Sparks X

The Sparks X is designed to be activated by a control panel at a distance. The smoke plumes can reach between 4 to 10 meters, depending on the environment. When transporting the Sparks X preferably use a flight case.

WARNING!

- Do NOT aim the Sparks X at people or animals.
- Always keep a safe distance between the Sparks X and the crowd of at least 3 meters

Package Contains

- 1x Sparks X Machine
- 1x Power cord
- 1x Signal cable
- 1x Hex key

Parts

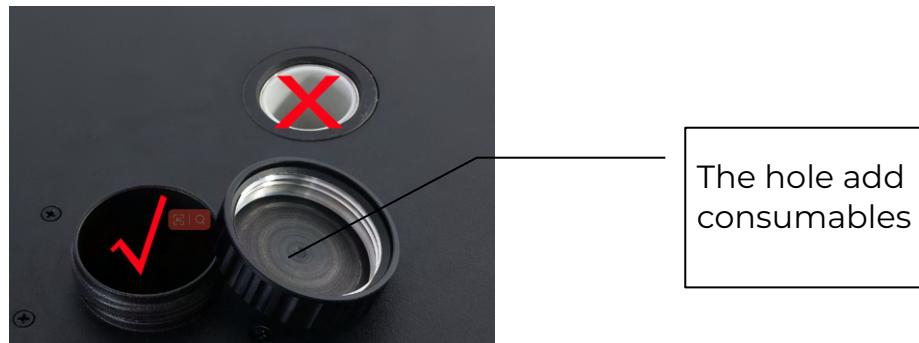


1. Powder hole
2. Spray hole
3. Display
4. Power switch
5. Fuse
6. Power port
7. 3 PIN / 5 PIN DMX port
8. Safety ring
9. Acces hole

Installation

This device only support DMX control mode, with 3PIN and 5PIN dual interfaces.

Please ensure pour into enough consumables before use; close the box lid after adding consumables (**DON'T TO ADD THE WRONG HOLE**).



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

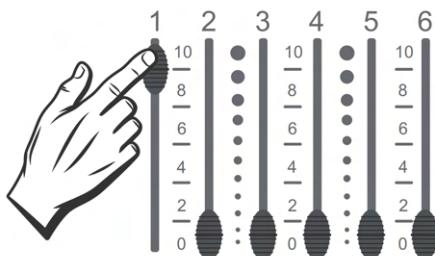
DMX CHANNEL (2CH)

1 st 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

2 nd Channel Value	0 - 15	16 - 63	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

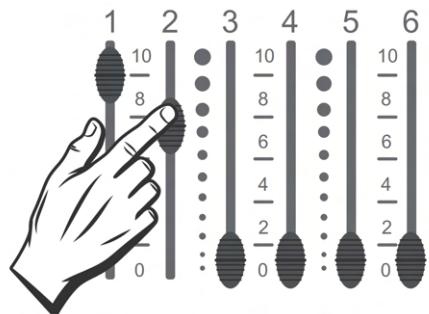
DMX OPERATION

1. Connect DMX signal cable, the DMX blue indicator light keep in flashing means DMX signal connected successful.
2. 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.



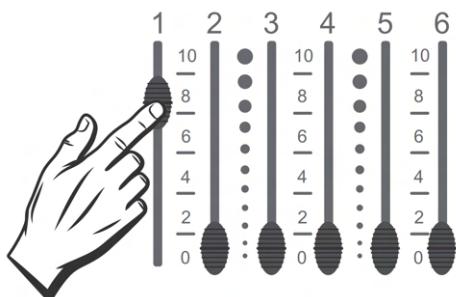
*1st channel push to top, start heating.
(value 240-255)*

3. Push to 2nd channel do fountain.



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

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



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

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)

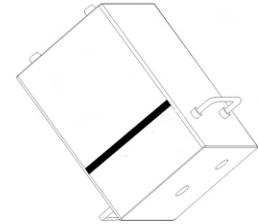


Note: Each selection all need press **ENTER** to do confirmation, then can slip to next step.

Clean & Maintenance

CLEAR POWDER

After each event finished, must do clear powder operation to avoid be stuck of next time use.



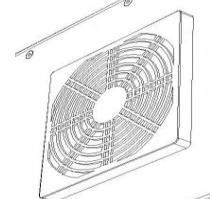
Operating steps

1. The machine still in readiness state after event finished, direct operate clear powder, the console 1st channel push to value 221-339;
2. Automatic cleaning time is 30s, also can stop cleaning in advance by manual, use console 1st channel push to value 1-221;
3. 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.

DUST NET CLEANING

Please clean the dust net regularly, to avoid block the dust net and influence heat dissipation of machine.



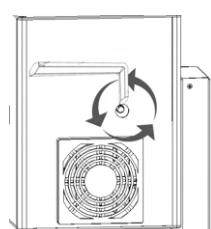
The dust screen can be removed directly from the outside.

EXTERNAL CLEANING

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

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.



After Sales

- 1 Year warranty (Subject to the date of manufacture);
- Each machine is affixed with the factory code. The factory code shall be provided when enjoying the warranty service. It is invalid if torn.
- 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	<ol style="list-style-type: none"> Check the cooling fan if working normal Check the heating panel with sink heat contact if normal Replace heating panel.
E3	Heating panel no supply power	Replace the mainboard
E5	The sensor is faulty	<ol style="list-style-type: none"> Check sensor socket Replace the sensor.
E6	The anti-tilt safety function is activated	<ol style="list-style-type: none"> Restart power button, please do not tilt the machine after turning on the power to activate the anti-tilt function. Disable the protection function manually.
E7	Blower starts with overcurrent protection	<ol style="list-style-type: none"> Check whether any sundries has fallen into the blower motor. Check the connector of 110/220V in mainboard if dropped. Replace the blower motor.
E8	Blower starts without current protection	<ol style="list-style-type: none"> Manually turn off the protection function and check whether it will still be protected in cleaning state. 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.

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.

Warnings

Icon	Warning
	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 3 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 sand to extinguish, do not use water.
7. Damage caused by improper use or human factors is not covered by the warranty.

Warranty

The Sparks X has a 1 year warranty which will be void if the Sparks X is handled differently than described in this manual.

The warranty is void when the Sparks X has been opened by anyone other than The Confetti Maker.

The Confetti Maker is not responsible for any paint or hardware damaged as a result of rough handling.



CAUTION! Always contact your supplier in case of malfunctions.
Never try to repair the Sparks X yourself.



WARNING!

READ THIS DOCUMENT BEFORE INSTALLING OR USING Sparks X.

IMPROPER SELECTION, IMPROPER USE, USE BY ANYONE OTHER THAN TRAINED USERS HAVING APPROPRIATE TECHNICAL EXPERTISE OF THE Sparks X CAN CAUSE DAMAGE TO EQUIPMENT OR PROPERTY.

This document and other information from the Sparks X, its subsidiaries and authorised distributors together only provide product installation guidelines and product or system usage options, each of which are intended to operate in conjunction with further investigation by trained users having appropriate technical expertise to facilitate the safe handling and use of the Sparks X.

The Sparks X is not intended to be used or handled by any users other than trained users having appropriate technical expertise. The information and documentation contained in our catalog and on the website, www.theconfettimaker.com, is only provided for technical illustration purposes only and may not be used or relied upon as a statement of suitability for use in any particular application. Users, through their own analysis and testing, are solely responsible for assuring that the Sparks X is used in a safe and intended manner with all performance, endurance, maintenance, safety and warning requirements necessary for safe application being met.

DECLARATION OF CONFORMITY

Manufacturer: The Confetti Maker
Product: TCMFX Sparks X

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

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



Year of Manufacturing: On the product
Name: The Confetti Maker
Place: Rotterdam
Date: 11-07-2017
Director: H. S. Maikoe

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A handwritten signature in black ink, appearing to read 'H. S. Maikoe', is placed over the company address.



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