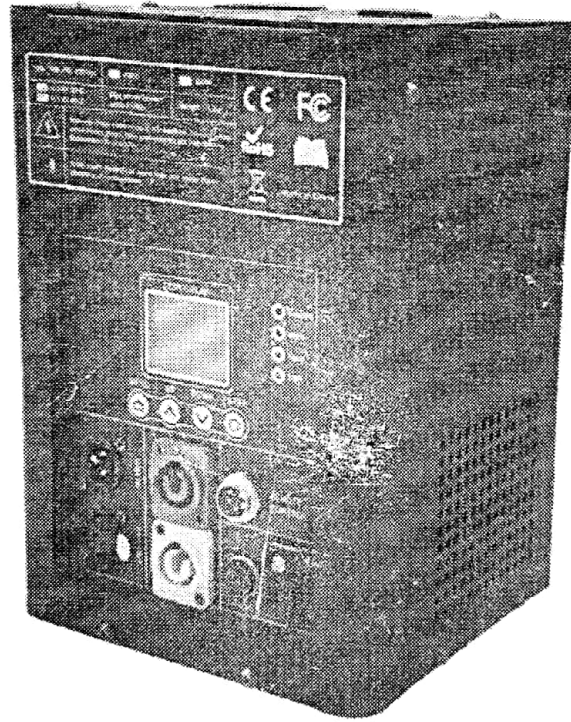


# High-end Stage Special Effects



**CE RoHS FCC**

**Cold Spark Machine**

**ML-CS01**

# List

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## **1.Pre-use instructions for products.**

Thanks for your choosing our spark machine. We recommend that you carefully read these operating instructions before commissioning the unit. Please follow the instructions in this manual.

### **1.1 Safety Instruction**

- > Be very careful during the installation: touching live wires can cause life-threatening electric shocks.
- > Keep this device in a dry area at all times.
- > Disconnect all power before opening the housing for any reason.
- > Keep the device away from children and unauthorized users.
- > Damage caused from not following the guidelines in manual are not covered by the warranty and the we will not accept responsibility for any resulting defects or problems.
- > Make sure that the available voltage does not exceed the voltage stated in the specification section of this manual.
- > Disconnect the device from all power to clean it or when it is not in use . Handle the power cord by the plug only.
- > Note the damage caused by user modification to the device is not covered by the product warranty.
- > Do not switch the device on immediately after it has been exposed to extreme changes in temperature. Protect the device against damage by leaving it switched off until it has reached room temperature.
- > Do not touch the device during operation as the housing heats up.

### **1.2 Installation**

- 1) Allow qualified personnel to install equipment and comply with EN60598-2-17 and any other electrical equipment specifications.
- 2) Ensure that there is no flammable material within the radius of 1M of the machine.
- 3) Connect the device to the power supply with a power plug.

## **2.Description of the product**

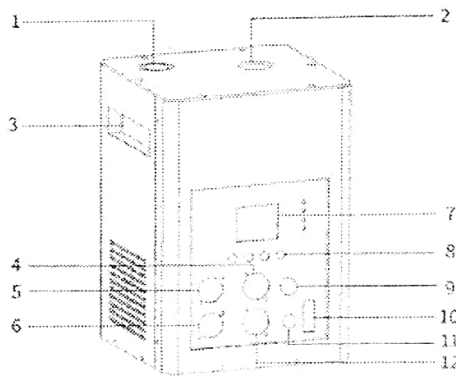
### **2.1 Features:**

- ※ eco-friendly, safety, no gunpowder.
- ※ Support wireless control, LCD and DMX, easy to operate.

## 2.2 Maintenance precautions:

- ※ Please clean the sparking machine regularly, that will reduce the replacement frequency and repair cost of spare parts.
- ※ The sparking machine should use our powder, which can prolong the life of the machine!
- ※ Please keep the remote control parts of sparking machine, please contact us if lost
- ※ Our sparking machine accessories are not suitable for other brands of sparking machine, otherwise it will burn out!

## 2.3 Appearance of the machine :



1	2	3	4	5	6
Spark output	Powder entrance	Handle	Power in	DMX in	DMX out
7	8	9	10	11	12
LCD display	Function keys	Remote Control	Switch	Fuse	Power out

## 3. Machine parameter and controller instruction

### 3.1 Machine parameter:

Rated voltage	AC220V/50Hz or AC120V/60Hz
Rated power	600 W
fuse	10A or 15 A
Pre-heating time	3 mins
Spark height	2-5M adjustable
Control mode	Remote control/DMX512
Display screen board	LCD
DMX channel	2CH
Net weight	6.2Kg
Machine size	175*175*255 mm

### 3.2 Remote controller instruction

button	Function Description	Detailed description
1	open	spray
2	turn off	Stop spraying
3	5 seconds	Stop after spraying for 5 seconds
4	10 seconds	Stop after spraying for 10 seconds
5	20 seconds	Stop after spraying for 20 seconds
6	30 seconds	Stop after spraying for 30 seconds
7	Code	Pair machine with remote control (no need operate by default)
8	Clearing	Clear consumables 5 seconds
9	Single auto effect	Effect 1, Need to set ID and number of subordinates in the setting interface
10	Round auto effect	Effect 2, same as above
11	Double direction auto effect	Effect 3, same as above
12	Flowing effect	Effect 4, same as above
13	Refresh effect	Effect 5, same as above
14	Double direction refresh effect	Effect 6, same as above
15	Speed+	Turn on the effect to adjust the speed of the effect, and turn off the effect to adjust the spray amount.
16	Speed-	

### 3.2 DMX Channel Description :

When using the DMX mode, 2 channels are occupied:

Channel 1	Function
0-9	Spark effect off
10-255	Spark effect on
Channel 2	Function
0-49	Pre-heat off, And the first channel is invalid
50-100	Pre-heat on, And the first channel is valid
150-200	Clear material, And the first channel is invalid

## 4. Menu control panel operation:

### 4.1 Regular Setting: Select setting, press "ENTER" to enter.

Content	Options	Function Descriptions
DMX address	001-511	Address code 001-511 optional
Wireless switch	ON/OFF	Turn on/off connection to the remote control
Master	ON/OFF	When multiple machines are connected, set one as the master, Only the master can be controlled by remote control. Control to achieve synchronization effect (under the horse racing effect, The master needs to be turned on)
ID code	001-030	For example: 8 machines are connected in series with the horse racing effect, the identification code is set to 001 in turn, 002...008.
PaoMa Num	001-030	The maximum value is 30. Set according to the number of serial machines. For example: 8 machines are connected in series, the master and slave are all set to 008.
Class switch	ON/OFF	The default is maximum when closed, and the spray height can be set in low level 1 or high level 2.
Class	1/2	
Manual Spray	ON/OFF	Used when testing the machine.
Display	ON/OFF	Automatically black screen after 30 seconds after opening.

### 4.2 Advanced settings: Long press ENTER for 3s to enter advanced settings.

Content	Options	Function Descriptions
Set temp		Factory set
Set temp		Factory set
Auto preheat	ON/OFF	Factory set
Current code	0 or 4-5 digits (Factory set)	Enter the advanced settings, select the "RemoteCtc code" and press ENTER, long press the "7" on the remote control, Display show "RemoteCtc Code---OFF", "Current Code" displays 4 or 5 digits, which means the code is successfully matched.
RemoteCtc Code	OFF/ON	
Sensor	ON/OFF	Factory Set
Load Default	ON/OFF	

### **4.3 Notes before use :**

1. Place the spark machine horizontally, and inspect for damaged at each use . If damaged, please contact us for service.
2. Before power on, please verify that the supply voltage is in conformity with the rated voltage of the sparking machine. At power on, the machine will begin to heat for use .Connect the machine to your selected controller.
- 3.The machine must be used only in a well ventilated place but not where is air flow if limited or the machine' s thermal protection system may cause a shutdown.
4. The spark machine can be used on the ground horizontally only. The machine should have 1M clearance all around. Keep away from children, flames, flammable and explosive materials. Keep a minimum of 1M away from the output nozzle to prevent scalding.
5. Don't allow machine to run out of powder. If the machine is allowed to run empty,it may cause the motor and heater to be damaged ,Turn off the power before adding powder and do not allow powder to enter the inside of the housing ,as internal electrical damage may result.
- 6.If spark output is low ,or there is noise from motor,or the machine stops creating spark altogether.Do not modify or repair the machine by yourself.please contact the dealer.

## **5.Operational details and instructions**

### **5.1 Basic Operational Prerequisites**

- 1.In order to better protect the machine, if the machine continues to work and consumes a whole package of powder, please cut off the power and make the machine stop working for more than 10 minutes.
2. When the machine is not used for a long time, please do not keep the powder, and be sure to spray out the powder to prevent the machine from being blocked by moisture.
3. When working, be sure to tighten the Injection port with cap, otherwise it may cause the powder to catch fire.
- 4.The power supply can connect up to 6 machines in series, and the horse race can connect up to 30 machines in series.
5. After the machine is overturned, it will automatically alarm, turn off the power line and check whether the signal line is abnormal, and it can be used normally after restarting.

## **5.2 Remote control operation instructions:**

- 1) Plug in the power cord and power on, turn on the switch and wait for the machine to warm up for 3-5 minutes, the 'heating' indicator will flash during warm up.
- 2) The indicator light stops flashing to indicate that the machine has finished preheating. Pour the powder into the injection port (be careful not to pour the powder into the spray output, recommend to pour half a bag of powder at a time)
- 3) Use the remote control to press " 1" to spray, press "2" to stop.

### **Horse racing function settings:**

1. Enter the setting interface first, and set the "Master" to the "ON" state.
2. Select "PaoMa Num" to set the number of connected machines. For example, if 4 machines are connected in series, the value is set to 004.
3. The host "ID code" is set to 001 by default.
4. Slave machines enter the setting interface, set the second "ID code" to "002" in turn, and the third to "003", and so on...
5. After the setting is completed, use the remote control to press the "8/9/10" button to test the horse racing effect and check whether the setting is successful.

### **Instructions for remote control code matching:**

(Default no need to operate, only use when remote not match with machine)

1. Long press "ENTER" for 3s to enter the advanced settings, select "RemoteCtc code", set "OFF" to "ON" and press "ENTER" to confirm.
2. After long pressing "7" on the remote control, the screen of the machine displays "RemoteCtc Code---Off", "Current Code" shows 4-5 digits, which means the code is successfully matched.

## **5.3 DMX console operation instructions:**

1. Plug in the machine and connect the console.
2. Push channel 2 to any value between 50-100 for preheating function. At this time, preheating starts and the heating indicator light will flash. When the preheating is completed, the heating indicator light stops flashing.
3. After the warm-up is completed, push channel 1, which is the function of adjusting the amount/height of the firework.

Note: Please keep channel 2 DMX value at 50-100 for continuous heating.



## **5.4 Set Spray Height**

Select the "setting" and press "ENTER" to confirm to enter the setting interface, select the gear switch to "On". Gear selection 1 is lower gear means lower spray height , and 2 means higher spray height for high gear.

## **5.5 Important Operational instructions!**

1.This machine can be put upright only , not sideways, flat. Please keep it upright. Otherwise, the sparks will not be vertical and the machine will be damaged.

2.Add powder and tighten the cap .

3.NEVER POUR SPARK POWDER INTO THE SPARK DISCHARGE OPENING! THIS CAN BE DANGEROUS! SPARK POWDER MUST ONLY BE ADDED TO THE STORAGE TANK THAT REQUIRES THE REMOVAL OF THE PROTECTIVE CAP. DO NOT OVERFILL! AFTER FILLING PUT CAP AND TIGHTEN.

4.Please don't test the machine for a long time, which will reduce the use time of the machine sparking .

5.After each time use before packing ,please spray out the powder, and allow machine to cool.

6.The powder should not be exposed to the air. If a bag of powder is not used up, it should be kept in a sealed condition and not exposed to open fire. Store or dispose of properly!

7.Damages caused by the disregard of this user manual are not subject to warranty. The dealer will not accept liability for any consequent secondary failures. Only skilled workers are allowed to carry out the electrical connections.

8.Outdoor powder cannot be used indoors! When using outdoor powder, there should be no carpet around the spark machine, and other inflammable articles!

## **6.Warranty Instructions**

- ◆Warranty period: one year(the date of purchase)
- ◆IF the buyers do not use the same supplier' s powder,the machine warranty period will be 3 month. The buyer will pay for the expenses if there are any components changes.
- ◆In such In the following cases, the product will not be guaranteed:
  - A: the product has been incorrectly operated and used inadvertently, for example, over load, over pressure, and firing;
  - B: the product was broken because of careless handling;
  - C: Problems caused by improper use of environmental factors, such as humidity, voltage instability, etc;
  - D: products have been modified by non factory personnel.
- ◆ products comply with the warranty provisions, the factory will not charge maintenance fees and accessories costs, for more than the warranty period of the product, only the corresponding parts, finished goods costs.
- ◆the contents of this warranty card, the company has the right to interpret, if the user is unknown, please contact the local distributors.
- ◆not covered by the warranty include: packing box, packaging, product shell and hanger, remote control transmitter battery.