

Sparktacic is a revolutionary special effects system.lt uses a newly designed delivery control system for a fountain style special effects and uses DMX Communication and is compatible with other control equipment. Functions:

The controlling signal of international standard:DMX512

Our fixture uses three channels, Adjustable effect height

Continuous feedback protection for overheating, redundant safeties for heat proteciton.

This instruction contains important information. Please read the instruction before using the machine.

Every time you have finished adding consumables, please cover the lid immediately. It is extremely hazardous to use without the lid. If should you ignite the consumables accidently, please use sand to extinguish them. Do Not Use Water. If the consumables in the bin are not used up, please pour them back into the bag and seal tightly.

Time Warning !!!

The continuous sparking time of the machine can not exceed 30 seconds: Otherwise it will affect the service life of the machine. If you want to continue using, you must to pause for a few seconds before using again.

Eye Protection Warning!!!

Always use eye protection during usage of the machine.

Electrical WamingIll

Please be aware when applying the power supply. Under no circumstances should you try to open the machine or try to remove and adjust any parts installed in the machine. The machine must be repaired and opened by qualified technicians ONLY.

Please use it carefully and do not allow the machine to get wet. Keep the machine and controller dry. Do not use them on rainy or snowy days. Please prevent anything from entering the spark outlet. If it happens, turn off machine immediately and do not continue to operate the machine until obstacles are removed.

When installing, Never drop the machine as damage may occur. Please check the nozzle before using, and confirm whether there is any particle accumulation. If there is, please invert the machine and shake to remove the particles.

Store the consumables in a dry place without direct sunlight, or any source of fire.



# User's Manual of Stage Special Effect Spark Machine

### Safety concerns

- 1. Unauthorized maintenance is prohibited, otherwise serious accidents may occur.
- 2. Keep dry and do not use in rain or snow.
- 3. After adding consumables or using, ensure that the opening lid is well covered. Accidental combustion of composite titanium can only be extinguished with sand. Composite titanium should be stored in a dry and sealed environment.
- 4. Keep the crowds and flammable materials at a safe distance of 3 meters to ensure that no objects will be touched after the sparks burn out.
- 5. Before and after each performances, the residual composite titanium must be cleaned from the nozzle. After each performance, the residual composite titanium must be checked. If need be, please clean it up, otherwise it will affect the effect and even damage the machine.
- 6. Up to six machines are connected in series. Over-connection may cause damage or even fire.
  - 7. For better heat dissipation, do not block the intake and exhaust ports.
  - 8. No object should be used to seal the nozzle.

### Machine parameter

Model number	HW-01
Jetting height	1-5 meters
Operating temperature	-10℃-50℃
	600w 3.8A (110V )/ 600w 1.9A (220V )
Power Outage	110V /10A , 220V /6.3A
Fuse	Remote control/DMX512
Control	5.5kg
Net weight	195mm*165mm*245mm
Dimensions	19511111 10511111 2
Maximum number of tandem stations and number of series	6
and number of series	1 year
Warranty period  Packaging	Packing in showcases 2–4–or 6 units 1 or 2 units packed in carton
1 donaga	

#### Material parameters

Titanium composite article
45 g/200g
I 4-15 minutes.
Vacuum sealed package

### Operation steps:

1. When the machine is not connected to DMX, the machine automatically preheats after starting (when DMX signal is connected, CH1 channel value 240-255 is ready). After preheating is completed, the indicator light READY starts to flicker to indicate that the machine is preheating and the temperature is not up to the preset temperature during the preheating process. The indicator light READY stops flickering to indicate that the temperature has been heated to the preset temperature and can start using. Press the key No.1-6 of the remote control button, the extension device opens for 8 seconds, press again halfway, the machine suspends operation, the machine displays the key No.1 of the remote control corresponding to F01, the key No.2 of the remote control corresponding to F02 on the machine, the key No.3 of the remote control corresponding to F03 on the machine, the key No.4 of the remote control corresponding to F04 on the machine, and the key F05 on the machine corresponding key No.5 of the remote controller, and the corresponding key of F06 is No. 6 on the machine display (the range of the address code of the remote controller is adjustable from 1 to 6).

2.Preheating mode:No. 1 green indicator light READY flickers, No. 4 red indicator HEAT lights up, indicating that it has entered the preheating state, The preheating is completed, No. 1 indicator light READY is always on, No. 4 indicator lights out HEAT.

3.Connect 512 console:No. 2 blue indicator DMX is on, representing 512 communication, when remote control invalid CH1 channel value 240-255 ready, channel value stops when pushed to 0-10 stop.

Fault: When the indicator No. 3 FAULT light flickers, the digital tube shows the corresponding fault code:

ER2 Temperature Sensor Fault

ER3 Box Excessive Temperature

ER4 Body tilt protection

ER5 Core Excessive temperature

ER6 Heating Failure

ER7 Temperature Abnormal Alarm

4.Turn off:Press the button 12 of the remote controller, COL appears and wait for 2 minutes before power off. (If DMX signal is turned on, push CH1 channel value to 0-10 to stop running.)

Remarks:After changing 512 address.Operation 512 console dialing needs to select 3-bit lever according to address



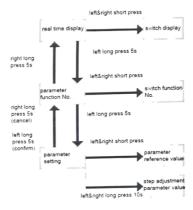
## Instructions for Machine Display and Key Operation

- 1. Contents displayed in the machine display area:
- 1)F01, F02, F03, F04, F05, F06 (when the remote control is in control state. the default display area shows F01-F06 as the address code of the remote control is adjustable).
- 2)DMX512 Address (When connecting to DMX, the default display area shows that DMX512 Address 1-510 is adjustable corresponding to DMX1-510 Address Code)
  - 3)Total running time
  - 4)Case temperature
  - 5)Current temperature
  - 2. Content of Function Number
  - 1). P00 Device parameter setting
  - 2). P01-DMX512 Address Settings
- 3). P02-gear adjustment settings (function number selection parameters 1, 2, 1 represent the indoor gear, 2 represent the outdoor gear. User-friendly for indoor and outdoor two scenarios.
- 4). When the device is powered on and two keys are pressed at the same time, it can enter the temperature setting interface and set the target temperature. After the setting is completed, the device needs to be restarted before it takes effect.

#### Key operation instructions:

- 1. After powering on the machine, the display interface shows:F01 represents the device number and can switch display content by pressing left and right keys.
- 2.Long press left key, you can enter function number, P00, P01, P02. At this time, you can switch function number by pressing left and right key.
- 3.Long press left key to enter the function number parameter setting interface, short press left key to increase the function number parameter, short press right key function number parameter to reduce, after setting is completed, often press left key to confirm.

Display of parameter function number	P88
Normal Digital Display	Up to three decimal–free points
Alarm display	Er0-9
Data Overflow Display	9.9.9.



### 3. DMX512 address parameters

512 channel	value	function
0 - 10 11 - 179 180 - 19 200 - 21	0 – 10	Stop running
	11 – 179	Emergency stop
	180 – 199	Clear material
	200 – 219	Protocol switching
	220 - 239	Wireless machine
		Operation
	240 - 255	
CH2	0-255	Density control increment
	0.055	Height control increment
Ch3	0-255	Troight contact

# IV. Notes for 512 Address Operation

- 1.Each extension occupies three channels
- 2.Set 4, 7, 10 with interval of 3
- 3. Actual Operating Channel 1 goes to the Operating Address Code.
- 4. Channel 2 is a density channel.
- 5.Channel 3 is height channel

9-15 intervals Remote Controller Description

Before using the remote control. the antenna should be pulled out to achieve the best control effect.

1 KEY:No. 1 address number on/off, press No. 1 key, the machine starts, press No. 1 key again, the machine stops; after pressing No. 1 key, the machine runs for 8 seconds by default.

2 KEY: No. 2 address number on/off, press No. 2 key, the machine starts, press No. 2 key again, the machine stops; after pressing No. 2 key, the machine runs for 8 seconds by default.

3 KEY: No. 3 address number on/off, press No. 3 key, start the machine, press No. 3 key again, stop the machine; press No. 3 key, the machine runs for 8 seconds by

4 KEY: No. 4 address number on/off, press No. 4 key, start the machine, press No. 4 key again, the machine stops; press No. 4 key, the machine runs for 8 seconds by default

5 KEY: No. 5 address number on/off, press No. 5 key, machine start, press No. 5 key again, machine stop; press No. 5 key, machine runs for 8 seconds by default.

6 KEY: No. 6 address number on/off, press No. 6 key, the machine starts, press No. 6 key again, the machine stops; after pressing No. 6 key, the machine runs for 8 seconds by default..

7 KEY: Spark 1.5 seconds from 1-6 address once, time interval is 0.5 seconds, cycle is 3 times, 1.5 seconds for extension 1, 0.5 seconds for extension 2, 1.5 seconds for extension 2, and 0.5 seconds for extension 2. Until extension 6 sparks 1.5 seconds, waits 0.5 seconds; Then start on the 1st and cycle three times.

8KEY: Spark 1.5 seconds from 6-1 address once, time interval is 0.5 seconds, cycle is 3 times, spark 1.5 seconds from extension 6, wait 0.5 seconds, spark 1.5 seconds from extension 5, wait 0.5 seconds. Spark 1.5 seconds until Extension 1, wait 0.5 seconds; Then start from No. 6 and cycle three times (notice the commands here, for example, start sparking No. 1, start sparking No. 2 0.5 seconds after No. 1 start, then start No. 3 0.5 seconds, then start No. 4 0, 5 seconds, then No. 1 has sparked 1.5 seconds, closed, and so on). Not required for No. 1 to be sparked until No. 1 runs for 1.5

seconds and then starts No. 2 in 0.5 seconds.

9 KEY: Spark 1.5 seconds, 1 second interval, 3 cycles, 1-6 spark 1.5 seconds, 1 second interval, 3 cycles, 1-6 spark 1.5 seconds, 1 second interval, 3 cycles.

10 KEY: Overall spark 30 seconds, 1-6 spark 30 seconds (no matter which address, can receive sparking).

11KEY: The emergency stop command, all the machines receive the command for stopping the sparking action and return to the standby preheating state.

12 KEY: Cleaning, soft shutdown, press soft shutdown, stop all actions, extinguish all indicators, only the cooling fan in work, the fastest reversal of the first feeding. the fastest speed of the second feeding motor, the fastest speed of the fan, heating stop. start timing, timing time to the extension execution mechanism all stop, No. 1-6 shutdown, stop all actions, extinguish all indicators. Only the cooling fan is working. Please press No. 12 key before cutting off the power supply. Soft shutdown is needed for cooling. The temperature of the display frequency will drop to about 250 degrees for about 6-8 minutes. It is strictly prohibited to pull out the point source without starting No. 12 key. This will damage the machine.



# Operating panel instructions

1: Connect the power input cable, press the ON key of the main switch of the power supply, the preheating indicator HEAT will turn on the red light, READY indicator flashes, indicating that the preheating of the machine takes about 5 minutes. In the process of preheating, the key of the device to start any remote controller is invalid. When the preheating reaches the preset temperature of 550 degrees in about 5 minutes, the machine is in a constant temperature state. At this time, the HEAT indicator lights out. Indicator READY lights green, indicating that heating to the preset temperature can be operated according to the relative keys on the remote control, below the preset temperature system will automatically heat to the preset temperature.

2: DMX indicator and DMX input and output: When the DMX indicator is not on, it indicates that the device is in the remote control mode. When the DMX is turned on, the DMX indicator will turn blue.

3: When in remote control mode (DMX indicator is not on) the system defaults to F01-F06, which shows the address code controlled by the remote controller. Please operate the machine according to the instructions of the remote controller. Short press the minus-key on the left most side to display the DMX address code 1-510 once, then short press the minus-key on the left most side to display the total running time of the device once, and then short press the minus-key on the left most side to display the total running time of the device. - The temperature in the case is about 25-30 degrees at one time, and then short press the minus sign on the left side. The temperature in the core is about 550 degrees at one time. The parameter confirmation needs long pressing the left key, and long press the right key for the return operation.

FOJ

Adress

J. Phoras

Controls

- 4: Long press the minus sign on the left most –, the system will display P00 (P00 represents the address code of the remote controller, the parameter range is 1–6 adjustable). When the display displays P00, then long press the minus sign on the left frequently –, enter the adjustment mode of the address code parameters of the remote controller, adjust the parameters with the left and right keys, confirm the parameters by long pressing the left key, and long press the right key for the return operation.
- 5: Function number P01 parameter adjustment (P01 means DMX address code settings), long press the left key to display P00, then long press the left key to display P01, then long press the left key to enter the DMX address code settings, DMX address code parameter adjustment range is 1–510 adjustable, long press the left key for parameter confirmation, long press the right key for return operation.
- 6: Function number P02 parameter adjustment (P02 means adjusting indoor and outdoor parameters of the spark machine),long press the left key to display P00, then short press the right key to switch to the P02 display state, then long press the left key to enter the parameter adjustment mode, P02 parameter range 1–2 can be adjusted, 1 means indoor use parameters, 2 means outdoor use parameters, parameter confirmation needs long press the left key, long press right key for return operation.

### Warranty Notes

- 1. Thank you sincerely for purchasing our products. As our valued customers, you will receive the high quality after-sales service provided by our company.
- 2. This product is warranted for one year. For example, within one week, due to quality problems, the company can replace the same type of products.
- 3. During the warranty period, our company will provide free maintenance service for customers due to hardware failure caused by the product itself. Please do not disassemble and repair the machine by yourself. Simply return back to us.

# Il warrenties denied it any one of the following circumstances

- 1. Damage caused by external reasons or failure to operate in accordance with the instructions;
  - 2. The product has been disassembled, modified or repaired without authorization;
- 3. Damage caused by improper handling, management, use and maintenance or man-made damage by users;
  - 4. Damage caused by incorrect installation or use of users;

Products not covered by the warranty will provide fee-based maintenance services.