

USER MANUAL SPARKULAR JET

V2.0

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Showven Technologies Co., Ltd

USER MANUAL

SPARKULAR JET

★Please read this manual carefully before operating this product.

★Warranty card attached in the manual, please keep it well.

▲SAFETY CONSIDERATIONS

- \ Unauthorized repair are prohibited, it may cause serious incident
- \ Keep the device dry, do NOT use in rain or snow
- \ Make sure lid of feeding hopper are well covered when use SPARKULAR JET. Accidentally burning of Composite Ti can only use sands to extinguish. Composite Ti should keep away from moisture and stored in a dry sealed environment
- \ Keep audience, animals or flammable objects at a minimum distance of 3m from SPARKULAR JET. Make sure sparks shoot out from SPARKULAR JET can NOT touch any objects in the air
- \ Please be noted that there may sparks or remains fall to the ground. Make sure there is no flammable objects such as carpet on the ground (with a radius of 3m close to the machine)
- \ Never touch the nozzle of SPARKULAR JET, danger of getting burnt
- \ Never touch the sparks which shooting out from the nozzle
- \ Cover of nozzle of SPARKULAR JET is prohibited
- \ For better heat dissipation, block the air intake and air outlet is prohibited

▲Description

SPARKULAR JET is another brand new effect originally invented by SHOWVEN. It generates a flashing SPARKULAR effect up to 10m. Built-in automatic air compressor, no external pressure tank needed, makes it easier for setup and fewer usage restrictions. It is perfect effects solution for stadium, concerts etc. medium to large events

▲Technical Specifications

- \ Dimension: 320×280×300mm
- \ Weight: 16.5kg
- \ Housing material: 304 Stainless steel
- \ Input: AC 100V-120V,50/60Hz, Max.cascade:3PCS
AC 200V-240V,50/60Hz, Max.cascade:6PCS
- \ Work power: 350W
- \ Work Temp.: -10 °C~50 °C
- \ Effect height: HC8200 LARGE(8-10m) / HC8200 MEDIUM(6-8m) / SMALL(4-5m)
- \ Hopper capacity: 450g
- \ HC8200 consumption: HC8200 LARGE/MEDIUM 10-15g/shot; HC8200 SMALL 4-6g/shot
- \ Interface: 3-pin and 5-pin DMX IN/OUT, NEUTRIK POWERCON TURE 1
- \ Control: Standard DMX, 2 Channels

▲ Operation Panel

1. LED display area:



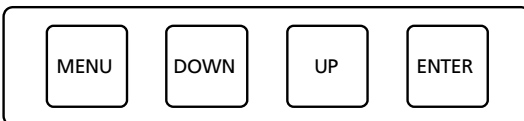
READY: Green light flashing means heating up. Turns from flashing into long on, indicates that the machine is ready to work

DMX: Flashing shows that DMX signal is connected, light OFF means there is no DMX signal

FAULT: Light ON when error occurs

HEAT: Light ON when system is heating up

2. Control button area:



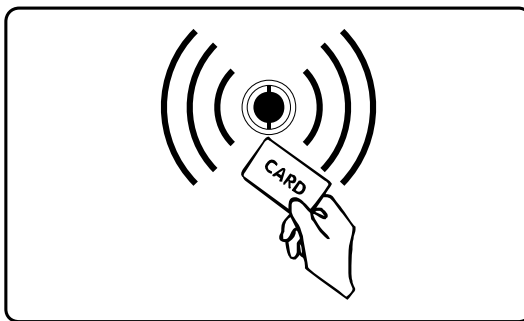
MENU: switch through setup menu. Press 3s switch to advanced interface

DOWN: parameter down

UP: parameter up

ENTER: confirm and save parameters

3. RFID area:



RFID card comes together with HC8200. It is a safety design, allows machine to identify the parameter and types of consumable

Please note that granules RFID card can increase the single machine specific working time. The card is disposable, can only use once

▲ Interface

1. Main Interface:

DMX:	11	P:	0
T:	19	Delay:	1.0s

First Line: DMX address, current pressure value

Second Line: inner core temp. delayed firing time

The working principle of the machine is when the firing is triggered, it takes some time (jet delay) for the system to transfer and stimulate the consumables. When it reached the delayed firing time, the valve will open automatically and firing activated

2. Error information:

Error information	Explanation
E0 System IC	1. Emergency stop was executed when firing was triggered, and firing stops. E0 disappear automatically 1min later 2. Too frequent firing in a short period of time, E0 disappear 100s later
E1 Pump Protect	It happens when continuous pressurization fail, probably the pump was malfunction
E2 Temp. Sensor	Temperature sensor is not connected or damage
E3 P Temp. Over	Chassis over-temperature
E4 Time Remain	Activated time for machine is not enough, need to swap RFID card
E5 K Temp. Over	Inner core over-temperature
E6 Heat Fail	Heating fail, if recover automatically, please pay attention to the power supply

3. Setting Menu:

Press "MENU" switch through setup menu.

Options	Range	Explanation
Set DMX Address	1-512	Set DMX address. If controlled by Host Controller, please set DMX address as 1, 3, 5, 7,...2n-1, otherwise it may leads to signal interference
Set Pressure	15-45	Adjust the pressure value, the higher the pressure, the higher the effect; After change the pressure please make a manual clear to reset the pressure inside machine.
Manual Clear	On/Off	Manual clear material. Please be careful, do NOT close to the nozzle

4. Advanced Menu:

Press "MENU" switch through setup menu.

Options	Range	Explanation
Set Temperature	580-620	Set inner core temp
Auto Heat	On/Off	Auto heat ON/OFF when switch on machine
Jet Delay	0.5-2.0s	Firing delay set, time delay between press firing on DMX/controller (firing trigger) and actual sparks out from the nozzle
Mode Selection	Factory Mode/ User Mode	Factory mode is for engineer only. When in Factory mode machine can't controlled by DMX console/host controller
Standby Switch	On/Off	Standby function. When ON, the machine can firing only when heating up was finished
Ext. Ignite	On/Off	When use fireworks firing system to firing the machine. Customized design for fireworks customer
Feeding Test	On/Off	Test the feeding structure and feeding motor
Fan Test	On/Off	Test the blowing fan
Feeding1 Time	0.1-0.3s	Feeding time of the HC8200 from the hopper
Feeding2 Time	0.5-3.0	Working time of shaft motor, Feeding2 time should shorter than Jet Delay time

***Please don't change default value without engineer's suggestion from SHOWVEN**

5. DMX channel – 2 channel mode:

First channel	Function
0-111	no function
112-255	Firing. To avoid false triggering, the trigger time should maintain above 0.2s
Second channel	Function
60-80	Clear material, the valve will open when clear material, and clear the consumable remains in the pipeline. Please DO remember to clear material after each show
20-40	Emergency stop, when firing was triggered, operator can stop the firing during this jet delay period. And machine will prompt E0 error
0-10	Pre-heat OFF (disabled when auto-heat ON)
240-255	Pre-heat ON (disabled when auto-heat ON)

6. When use SHOWVEN original host controller. Please follow bellowing rules to set DMX address, otherwise it may leads to signal interference. The firing duration set on host controller should be larger than 0.2s, and effect height set 5-10

Sparkular Jet No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
DMX Address	1	3	5	7	9	11	13	15	17	19	21	23	25	27	29	31	33	35

Warranty Instructions

▲Sincere thanks for your choosing our products, you will receive quality service from us

▲The product warranty period is one year. If there are any quality problems within 7 days after shipping out from our factory, we can exchange a brand new same model machine for you

▲We will offer free of charge maintenance service for machines which with hardware malfunction (except for the instrument damage caused by human factors)in warranty period. Please don't repair machine without factory permission

★Below situations NOT included in warranty service:

1. Damage caused by improper transportation, usage, management, and maintenance, or damage caused by human factors;
2. Disassemble, modify or repair products without Showven's permission;
3. Damage caused by external reasons (lightning strike, power supply etc)
4. Damage caused by improper installation or use;

For product damage not included in warranty range, we can provide paid service.

★Invoice and warranty card are necessary when applying for maintenance service from SHOWVEN.

Warranty Card

Product Name:		Serial No.	
Purchase Date:			
Tel:			
Address:			
Info. feedback about the problem:			
Actual problem:			
Maintenance detail:			
Service Engineer:		Service Date:	

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