

USER MANUAL

SPARKULAR SPIN

V1.0

2021/03/30



Showven Technologies Co., Ltd

USER MANUAL

SPARKULAR SPIN

★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
- \ Never touch the nozzle of SPARKULAR SPIN, danger of getting burnt
- \ Never touch the sparks which shooting out from the nozzle
- \ Cover of nozzle of SPARKULAR SPIN is prohibited
- \ 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 SPIN. Accidentally burning of Composite Ti can only use sands to extinguish. Composite Ti should keep away from moisture and stored in a dry sealed environ mint
- \ Keep audience, animals or flammable objects at a minimum distance of 3m from SPARKULAR SPIN. Make sure sparks shoot out from SPARKULAR SPIN can NOT touch any objects in the air.
- \ Please be noted that there may sparks or remains fall to the ground when use HC8200 LARGE. Suggest to use HC8200 MEDIUM or SMALL when indoor
- \ Clear material is necessary both before and after the show. Please check nozzle of SPARKULAR SPIN after each show, if there are consumable agglomerated in the nozzle, please clear it with screwdriver, otherwise it will affect the spark effects and even damage the machine
- \ For better heat dissipation, block the air intake and air outlet is prohibited

▲ Description

SPARKULAR SPIN is another global pioneering SPARKULAR machine originally from SHOWVEN. With two 20° angled nozzles and bidirectional rotatable structure, it creates the waltz-like lissome and romantic sparks. With adjustable rotation direction, rotational speed and effect height, SPARKULAR SPIN bring a new visual effect to your events.

▲ Technical Specifications

- \ MODEL: BT81/BT82
- \ DIMENSION: 330x305x349mm
- \ WEIGHT: 20kg
- \ CASING MATERIAL: 304 stainless steel
- \ VOLTAGE: 220V(BT81)/110V(BT82), 50/60Hz
- \ WORK POWER: 1000W
- \ WORK TEMP.: -20°C~50°C
- \ EFFECT HEIGHT: HC8200 MEDIUM: 2~4m/LARGE: 2~5m
- \ HEIGHT ADJUSTABLE: YES
- \ EFFECT DIRECTION: two 20° angled nozzles
- \ HOPPER CAPACITY: 200g*2
- \ HC8200 CONSUMPTION RATE: 20g/min*2
- \ INTERFACE: Neutrik@powerCON TRUE1 IN/OUT
Neutrik@3-pin&5-pin XLR IN/OUT
- \ CONTROL: DMX 2/4 channels switchable, wireless remote

▲ Operation Panel

1. LED display area:



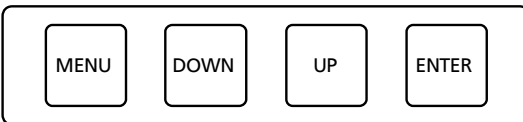
READY: Green light flashing means heating up. Turns from flashing into long on, indicates that the machine is ready to work

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:



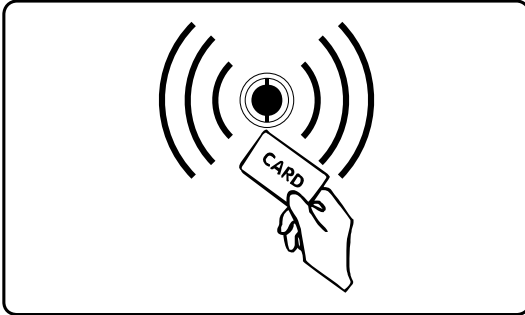
MENU: switch through setup menu. Press 3s switch to advanced interface

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:

593	582	RPM	70
DMX	1		60.00

First Line: Shows inner core temp. of Nozzle 1, inner core temp. of Nozzle 2, Spinning speed respectively

Second Line: DMX address, error info. If available, remain working time

2. Error information:

Error information	Explanation
E0 System IC	Systematic error
E1 Pump Protect	Temperature sensor is not connected or damage
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 swip RFID card
E5 K Temp. Over	Inner core over-temperature
E6 Heat Fail	Heating fail, if it self recovery, please pay attention to the power supply

3. Setting Menu:

Press "MENU" switch through setup menu.

Options	Range	Explanation
Set DMX Address	ON/OFF	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
Wireless Remote	1-512	Wireless function ON/OFF
Manual Fountain	ON/OFF	Manual firing ON/OFF, for test only
Fountain Height	1-10	Manual firing height setup, for test only
Spin Speed	60-100	Spinning speed setup
LCD Backlight	ON/OFF	LCD light ON/OFF

4. Advanced Menu:

Press "MENU" 3 seconds to enter the advanced setup interface, press MENU key to enter different options, wait 3 seconds to return to the main interface.

Options	Range	Explanation
Set Temperature*	580-620	Wireless function ON/OFF
Auto Heat	ON/OFF	Manual firing ON/OFF, for test only
Density	1-10	Manual firing height setup, for test only
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
Mode Selection	On/Off	Factory mode is for engineer only. When in Factory mode machine can't controlled by DMX console/host controller
DMX Channel Mode	2 Channel 4 Channel	Channel mode set. 4 channel is for professional control with lighting console
Standby Switch	ON/OFF	Standby function. When ON, the machine can firing only when heating up was finished

5. DMX channel – 2 channel mode:

First channel	Function
0-15	Fountain OFF
16-39	Height Low, not spin (related firing height on HOST CONTROL is 1)
40-63	Height Middle, not spin (related firing height on HOST CONTROL is 2)
64-87	Height High, not spin (related firing height on HOST CONTROL is 3)
88-111	Height Low, Clockwise spin (related firing

	height on HOST CONTROL is 4)
112-135	Height Middle, Clockwise spin (related firing height on HOST CONTROL is 5)
136-159	Height High, Clockwise spin (related firing height on HOST CONTROL is 6)
160-183	Height Low, anticlockwise spin (related firing height on HOST CONTROL is 7)
184-207	Height Middle, anticlockwise spin (related firing height on HOST CONTROL is 8)
208-231	Height High, anticlockwise spin (related firing height on HOST CONTROL is 9)
232-255	Height High, anticlockwise spin (related firing height on HOST CONTROL is 10)
Second channel	Function
60-80	Clear Material (perform after each show)
20-40	Emergency Stop
0-10	Pre-heat OFF (disabled when auto-heat ON)
240-255	Pre-heat ON (disabled when auto-heat ON)

6. DMX channel – 4 channel mode:

First channel (Nozzle 1)	Function
0-15	Nozzle 1 Fountain OFF
16-39	Nozzle 1 effect height adjust
16-255	Height Middle, not spin (related firing height on HOST CONTROL is 2)
Second channel (Status)	Function
20-40	Emergency Stop
0-10	Pre-heat OFF (disabled when auto-heat ON)
240-255	Pre-heat ON (disabled when auto-heat ON)
Third Channel	Function
0-15	Nozzle 2 Fountain OFF
16-255	Nozzle 2 effect height adjust
Fourth Channel(Spinning Control)	Function
136-255	Anticlockwise spin, spin speed adjust (60-100RPM)
16-135	Clockwise spin, spin speed adjust(60-100RPM)
0-15	Not spin

6. Choose DMX 2 channel mode when use SHOWVEN original host controller. Please follow following rules to set DMX address, otherwise it may leads to signal interference.

Sparkular SPIN 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

7. When control by PROGO remote control, please set the spinning speed on device, it can't change on remote control. Button function on PROGO remote control as below:

First button: FOUNTAIN OFF / Match with device

Second button: Height High

Third button: Height Middle

Fourth button: Height Low

Note: Press the first button to match device with remote control within 5s when turn on the SPARKULAR SPIN. If it is not work after match with machine please check the battery status of remote control.

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:	

SHOWVEN[®]



Showven Technologies Co., Ltd.

Tel: +86-731-83833068

Web: www.showven.cn E-mail: info@showven.cn

Add: Liuyang Economic Development Zone, Changsha, 410300, Hunan Province,
P.R.China