

SHOWVEN®

SPARKULAR TRIPLE USER MANUAL

V1.0



Showven Technologies Co.,Ltd.

User Manual

SPARKULAR TRIPLE


★ Please read this manual carefully before operating the product.

★ This manual contains the warranty card, please keep it well.

Safety Considerations

- » Never touch the nozzle of SPARKULAR TRIPLE, danger of getting burnt.
- » Never touch the sparks which shooting out from the nozzle.
- » Cover of nozzle of SPARKULAR TRIPLE is prohibited.
- » Keep audience, animals or flammable objects at a minimum distance of 3m (for front and rear side) and 5m (for left and right side) from SPARKULAR TRIPLE. Make sure sparks shoot out from SPARKULAR TRIPLE can NOT touch any objects in the air.
- » Ensure that children, animals and unauthorized persons don't have access to the SPARKULAR TRIPLE!
- » Unauthorized repair are prohibited, it may cause serious incident.
- » Keep SPARKULAR TRIPLE dry and do NOT use in rain or snow.
- » Make sure lid of feeding hopper are well covered when use SPARKULAR TRIPLE. 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.
- » Clear material is necessary both before and after the show. Please check nozzle of SPARKULAR TRIPLE after each show, if there are consumable agglomerated in the nozzle, please clear it with screwdriver, otherwise it will affect the sparks effects and even damage the machine.
- » Maximum cascade of SPARKULAR TRIPLE is 2 units with one standard power cable. Otherwise it may damage the machine and even cause fire.
- » For better heat dissipation, block the air intake and air outlet is prohibited.

Model: BT51/BT52

|  | Parameters | |
|---|---------------------|---|
| | Dimension | 400×290×270mm |
| | Weight | 20kg |
| | Input | BT51:AC200-240V, 50/60Hz BT52:AC100-120V, 50/60Hz |
| | Work power | 1500w |
| | Working Temperature | -10 °C ~ 50 °C |
| | Casing | Metal |
| | Effect height | 2.0-4.0m adjustable (HC8200 MEDIUM) 2.0-5.0m adjustable (HC8200 LARGE) |
| | Hopper capacity | 160g * 3 |
| | HC8200 consumption | 17g/min * 3 |

Feature:

- » Triple heads, multi effect
- » Each nozzle can be controlled separately
- » Faster response, stronger bursts
- » RDMX function, status can be monitored by original host controller

Operation Panel

LED display area:



READY1, READY2, READY3 shows the status of 3 heads respectively;

After turn on, the machine pre-heating automatically, pre-heating time is around 5min. When "READY" turns from flashing into long on, indicates that the machine is ready to work.

DMX: Flashing shows that DMX signal is connected, otherwise is without signal

Control button area:



MENU: Short press to switch interface, press for 3 seconds can switch to the advanced setup interface.

DOWN: Parameters down

UP: Parameters up

ENTER: Confirm and save parameters

Radio frequency identification area:



Composite Ti with RFID card, swiping cards to identify parameters and types of granules.

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

Interface

Main Interface:

| | | |
|-----|-----|-------|
| 580 | 580 | 580 |
| DMX | 1 | 10.22 |

First line: temp. and error info. of each nozzle of machine Left shows nozzle 3, middle shows nozzle 2, right show nozzle 1.

Second line: shows DMX address, and remaining working time 10min 22seconds

Error information:

| Error information | Explanation |
|-------------------|---|
| E0 System IC | System error. |
| E2 Temp. Sensor | Temperature sensor was damaged. |
| E3 P Temp. Over | Machine stops working due to the chassis temperature is too high |
| E4 Time Remain | Insufficient granules or remaining time, please swiping RFID card. |
| E5 K Temp. Over | Machine stops working due to the inner core temperature is too high |
| E6 Heat Fail | Heating failed. |

Setting interface:

Press "MENU" to enter the Setting interface, press the "MENU" button to enter different options until you return to the main interface.

| Options | Range | Instructions |
|-----------------|--------|---|
| Set DMX Address | 1-512 | Set the DMX address. |
| Manual Fountain | ON/OFF | Manual fountain switch, for testing purpose only. |
| Fountain Height | 1-10 | Manual fountain, set shooting height, for testing purpose only. |

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 | 500-610 | Setup inner Core temperature. Please don't change default value without engineer's suggestion from SHOWVEN. |
| Auto Heat | ON/OFF | Auto preheat function switch after turning on machine |
| Density | 70-100 | Adjust the sparks density. Please don't change default value without engineer's suggestion from SHOWVEN. |
| Mode Selection | Factory Mode/ User Mode | Factory Mode is factory debugging mode, User Mode is using mode |
| Default Parameter Mode | | Press "ENTER" to restore all parameters to the factory settings. |
| Standby Switch | On/Off | When it's on, the machine can only generate spark when pre-heating finish. |

When using the DMX controller, the system takes 6 channels, each nozzle takes 2 channels.

| First channel (nozzle 1) | Functions |
|---------------------------|-------------------------------------|
| 0-15 | Fountain OFF |
| 16-255 | Fountain ON, Height adjustable |
| Second Channel (nozzle 1) | Functions |
| 60-80 | Clear Material |
| 20-40 | Emergency Stop |
| 0-10 | Pre-heat OFF (Disable in Auto-heat) |
| 240-255 | Pre-heat ON (Disable in Auto-heat) |

| | |
|----------------------------------|-------------------------------------|
| Third Channel (nozzle 2) | Functions |
| 0-15 | Fountain OFF |
| 16-255 | Fountain ON, Height adjustable |
| Fourth Channel (nozzle 2) | Functions |
| 60-80 | Clear Material |
| 20-40 | Emergency Stop |
| 0-10 | Pre-heat OFF (Disable in Auto-heat) |
| 240-255 | Pre-heat ON (Disable in Auto-heat) |
| Fifth Channel (nozzle 3) | Functions |
| 0-15 | Fountain OFF |
| 16-255 | Fountain ON, Height adjustable |
| Sixth Channel (nozzle 3) | Functions |
| 60-80 | Clear Material |
| 20-40 | Emergency Stop |
| 0-10 | Pre-heat OFF (Disable in Auto-heat) |
| 240-255 | Pre-heat ON (Disable in Auto-heat) |

Please set DMX address following below rules when connect with SHOWVEN host controller.

| | | | | | | |
|-----------------------------|----------|----------|-----------|-----------|-----------|-----------|
| SPARKULAR TRIPLE No. | 1 | 2 | 3 | 4 | 5 | 6 |
| DMX Address | 1 | 7 | 13 | 19 | 25 | 31 |

Note: Wrong DMX address setting may cause uncontrolled shooting of SPARKULAR TRIPLE.

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 is any quality problems, we can exchange a brand new same model machine to you within seven days after receive the product.

▲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 situation NOT included in warranty service:

- 1.Damage caused by improper transportation, using, management, and maintenance, or damage caused by human factors;
- 2.Disassemble, modified or maintenance 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 asking for service from SHOWVEN.

Warranty card

| | | | |
|--------------------------------|--|-------------------|--|
| Product Name: | | Serial NO.: | |
| Purchase Date: | | | |
| Contact Number: | | | |
| Address: | | | |
| Customer Feedback Information: | | | |
| Actual malfunction: | | | |
| Maintenance details: | | | |
| Maintenance person: | | Maintenance Date: | |

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