

USER MANUAL

Host Controller ZK6200/ZK6300

V2.0
2022/03/09



Thanks for choosing HOST CONTROLLER, we wish it will sparks up your show. Please read the following manual carefully before operating this product.

Δ **Description**

The Host Controller is an intelligent system specially designed for the multi-effects and remote control of SPARKULAR series products, so as to realize the simulation and demonstration of multi dynamic effects. The Host Controller has multiple interface types and control mode adapting to modern stage, except DMX communication, it can also be triggered by Audio and MIDI time code to achieve music synchronization, and use LAN to achieve collaboration and communication between multiple host controllers.

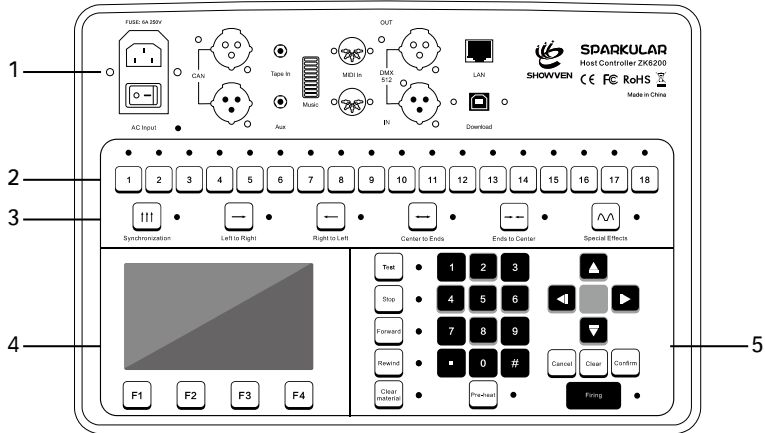
Δ **Technical Specifications**

- \ **MODEL:** ZK6200/ZK6300
- \ **DIMENSION:** 390×300×110mm
- \ **WEIGHT:** 3.5kg
- \ **VOLTAGE:** 100-240V, 50/60Hz
- \ **POWER:** 15W
- \ **MAX CASCADE OF SPARKULAR:** 18units (ZK6200)/ 54units (ZK6300)
- \ **SUPPORT MACHINES:** SPARKULAR series, CIRCLE FLAMER series, SONICBOOM series

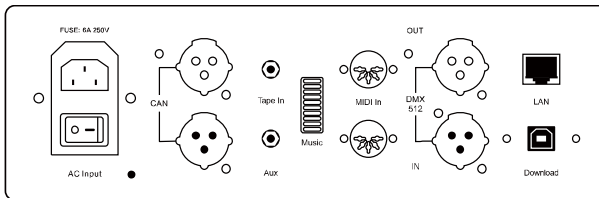
Δ **Host Controller Introduction – Standard or Pro Version**

- \ Standard DMX512 signal output
- \ Support 18 / 54 units SPARKULAR or equivalent device at the same time.
- \ Five standard dynamic effect modes: Synchronization, Center to Ends, Ends to Center, Left to right, Right To Left, Special Effects and one user-definable special effect mode (together with SPARKULAR Edit 200 software from SHOWVEN)
- \ Supports 8 files and each file supports 36000 lines at maximum (special effects last for 30 minutes)
- \ There are multiple optional trigger sources.
- \ Support simulation function and LED display.
- \ Monitoring function: Host controller with RDMX function, can feedback status information such as Temp., error message etc. of each machine.
- \ Emergency stop function

▲ Controller Operation Panel



1. Cable Connection Area:



AC Input: AC Power Input.

CAN: CAN Communication Input / Output Ports.

Tape In: Audio Signal Input Port of Main Channel

Aux: Audio Signal Socket of Side Channel.

Music: Displaying the Electrical Level of Audio Signal.

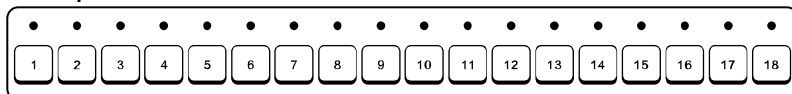
MIDI In: Time Synchronous Signal Input of MIDI thru output.

DMX 512: DMX Signal port

LAN: Network port

Download: SparkularEdit200 software port

2. Manual Operation Area:



No.1 to No.18 corresponding to related SPARKULAR.

Press key 1-18 can check (firing/stop) related SPARKULAR unit.

The indicator light will switch from flash green to always on when finished heat up.

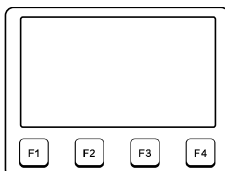
When firing activated the indicator light will change to Red.

3. Mode Selection Area:



There are five standard dynamic modes and one special effects mode which use together with SPARKULAR Edit 200 software from SHOWVEN

4. LCD Area:



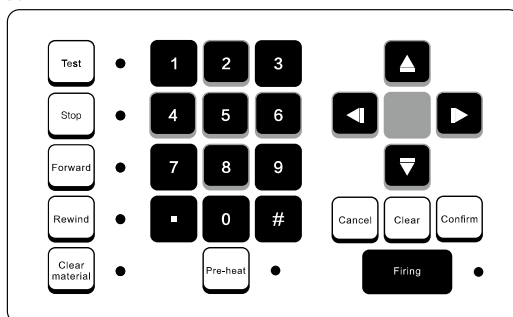
F1: Main Menu

F2: File Selection Menu

F3: Configuration Menu

F4: About host controller

5. Edit / Control Area:



Test: Test / demonstration of edit effects. After press Test, program runs and LED will display relatively, but no actual output.

Stop: Emergency stop. Pre-heat also shuts off.

Forward: Put forward designed operating time under special effect mode.

Rewind: Rewind designed operating time under special effect mode.

Clear Material: Clean the remaining consumable in the heating chamber.

Pre-heat: Heating up SPARKULAR, it takes around 5min. For long time not use the machine, suggest to turn off the "Pre-heat" function and allow SPARKULAR to return to room temperature.

Firing: Activate / stop programming.

Left / Right key: Move through different parameters.

Up / Down key: Edit parameters.

Number Keys: Edit parameters.

Cancel / Confirm: Cancel / Confirm parameter change

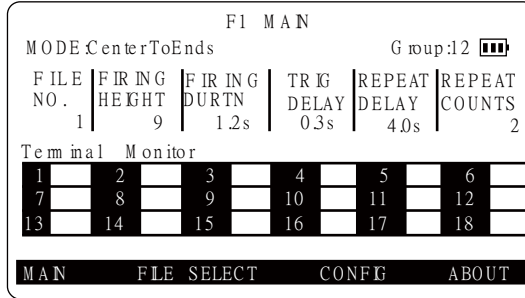
Δ Interface

1. Main Menu:

MODE: Effect Mode

GROUP: Device quantity.

Battery logo shows battery capacity and when it decrease to one grid, please charge it.



Option	Value	Explanation
FILE NO.	1-8	File number
FIRING HEIGHT	1-10	Height gear. "." button can change to gear 10.
FIRING DURATION	0.1-30.0s	Firing duration
TRIGGER DELAY	0.1-30.0s	Trigger delay between two machines
REPEAT PERIOD	0.1-30.0s	Time to start of next sequence/period
REPEAT COUNTS	1-5	Repeated times

Note:

Please note the setting of "repeat counts" to avoid multi repeat of effects.

The working status of SPARKULAR will show on the LCD screen of host controller. Normally it shows the core temperature of SPARKULAR, when there is error information it will also show here.

2. Error Information

Please refer to the error information of the machine.

3. File Select: F2

F2 displays the parameters list of 8 preset files.

FILE No.	FIRING HEIGHT	FIRING DURATION	TRIG DELAY	REPEAT DELAY	REPEAT COUNTS
1	3	5.0s	0.0s	5.0s	1
2	9	0.8s	0.0s	1.0s	1
3	3	5.0s	0.0s	7.0s	2
4	9	0.4s	0.0s	1.0s	1
5	9	0.5s	0.0s	5.0s	2
6	9	1.0s	0.0s	3.0s	3
7	9	1.0s	0.0s	2.0s	2
8	9	1.0s	0.0s	1.0s	1

4. Configuration Menu: F3

F3 CONFIG	
SPARKULAR Start No.	: 1
SPARKULAR End No.	: 6
Trigger Source	: HAND
Audio Level	: 2
Audio Filter Delay	: 20ms
Audio Stop	: Firing Stop
Mode Selection	: Factory Mode
LAN	: OFF
Language	: English
Repeat Time Mode	: Repeat Delay Mode

Option	Scope	Description
SPARKULAR Start No.	1-18	Select range
SPARKULAR End No.	1-18	Select range
Trigger Source	HAND, AUDIO, MIDI	Trigger Sources options under special effect mode
Audio Level	1, 2, 3, 4	Voltage classes 1-4 after choosing Audio Trigger Mode
Audio Filter Delay	10-100ms	Time to The filtering time of trigger signals after choosing Audio Trigger Mode start of next sequence/period
Mode Selection	User Mode Factory Mode	Factory Mode only used for the factory test
LANGUAGE	ENGLISH/CHINESE	Language switch
REPEAT TIME MODE	Repeat period Repeat Delay	Repeat period: Cycle timing start when first machine start to firing. (chasing effects can realize with this mode) Repeat delay: Cycle timing start when the first firing cycle terminate.
DMX IN	ON/OFF	On: DMX in activated, when there is DMX in signal, host controller will be locked, and DMX signal will transfer to SPARKULAR. Off: DMX in disabled.
DMX Address	1-512	When use DMX IN function of Host controller, the DMX address of host controller.
LAN		Reserve for future use. Default value is OFF.

Trigger Source

HAND:

Firing manually by press "Firing" on panel.

AUDIO:

Firing activated by audio signal. There are audio signal light on the Music window, and Audio Level 1-4 corresponding to bottom to top. When Audio Level is 1 and Audio Filter Delay is 50ms, when audio signal appear, first light of Music is on and lasts for 50ms, and the file was activated.

In order to prevent the mistake trigger, before use AUDIO trigger function, please set Trigger Source at HAND, connect audio signal to normal audio signal source, and select AUDIO. According to the level of audio signal select proper Audio Level, Audio Filter Delay. Audio Trigger interfered easily, and it can be triggered only one time.

MIDI:

When Trigger Source is set as MIDI, the operation of the device can be started and stopped synchronously by MIDI Time Code (MTC).

No matter which mode the Trigger Source selected, the operation of the device can be started and stopped synchronously by SparkularEdit200 connected computer.

5. Special Effect Mode:

Special effects are edit on SparkularEdit200 software with computer, effects file can download to host controller with USB cable. For more information please refer to SparkularEdit200 manual.

Δ 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:

- \ Damage caused by improper transportation, usage, management, and maintenance, or damage caused by human factors;
- \ Disassemble, modify or repair products without permission;
- \ Damage caused by external reasons (lightning strike, power supply etc.)
- \ Damage caused by improper installation or use;

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

Invoice is necessary when applying for maintenance service from SHOWVEN.

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