

Acue[®]Lighting

PROFESSIONAL STAGE LIGHTING



SPARKIE



USER MANUAL

1. INTRODUCTION

Thank you for choosing the Acue Lighting Sparkie. To use this product correctly and safely, please read the instructions carefully before installing and using this product. This manual contains important installation and operation information. Make sure to strictly follow the instructions when installing and operating this product. Retain this manual in a safe place for future reference.

The Sparkie uses a high temperature resistant aluminum & metal body and is designed for indoor use only with an IP rating of IP19. This product is designed and produced in strict accordance with CE standards and conforms to the international standard of DMX512 signal protocol. It can be controlled manually from the display or by DMX using the built in 3-pin DMX/XLR in & out connectors. It is suitable for various types of indoor concerts, indoor events, indoor installations, and other like environments.

2. SAFETY INSTRUCTIONS

- Please keep this User Manual for future reference. All users of this fixture must read the user manual thoroughly.
- Unpack and check contents carefully to make sure there is no damage caused by shipping before using the unit.
- Before operating, ensure that the voltage and frequency of power supply match the power requirements of the unit.
- It's important to properly ground the fixture to avoid electric shock.
- The unit is designed for indoor use. Do not use in outdoor or moist environments. Keep away from liquids and flammable items. Do not point fixture directly at people or anything flammable. Make sure main power connector is connected to an outlet that is not near water or moisture.
- The unit must be installed in a location with adequate ventilation, at least 50cm from adjacent surfaces. Be sure that no ventilation slots are blocked.
- Disconnect main power before moving fixture.
- Make sure there are no flammable materials close to the unit while operating, as it is fire hazard.
- Do not connect this product to high voltage dimmers. This product is rated only for 110/120V use. DO NOT PLUG INTO 220/240V OUTLETS.
- Maximum ambient operating temperature is 40°C. Do not operate in temperatures higher than this.
- Unit surface temperature may reach up to 85°C. Do not touch the housing bare-handed during its operation. Turn off the power and allow about 15 minutes for the unit to cool down before

replacing or serving.

- In the event of serious operating problem, stop using the unit immediately. Never try to repair the unit by yourself. Repairs carried out by unskilled individuals can lead to further damage or malfunction. Please contact the nearest authorized technical assistance center. Always use the same type of parts.

3. Maintenance and Installation

3.1 Maintenance

- To reduce the risk of electrical shock or fire, do not expose the power connector of this unit to rain, liquids, or moisture.
- Intermittent usage will extend this fixtures service life.
- Please clear the fan, fan net, and optical lens of any dust or obstructions in order to keep the fixture in a proper working state.
- Do not use alcohol or any other organic solvent to wipe the shell.
- The machine must be cleared of all powder after every use before storing. If stored with powder inside the machine the powder will oxidize and jam the motors and feeders.
- You must dump out all powder from the machine after every use and run the machine until no more sparks are visible. This will assure proper functionality the next time you will need to use the machine.

3.2 Statement

All fixtures have been tested thoroughly before leaving the factory. In order to keep the product in good condition and ensure safe operation, users should follow the safety precautions and warnings in this manual.

Important: Damages caused by not following the guidelines in this user manual are not covered under warranty. The manufacturer is not responsible for product issues caused by misuse.

3.3 Safety Precaution

- In order to guarantee the product's life expectancy, do not store or use in environments over 60°C.
- Always use this unit in a safe and stable manner. Mounting system must be able to withstand 10x

that of the fixture's weight.

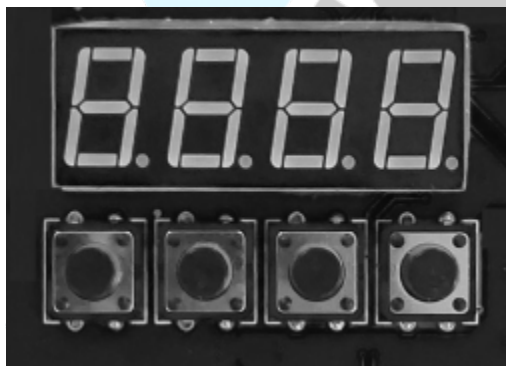
- Installation & use of this fixture may only be carried out by skilled individuals.
- **This product can ONLY be used in the voltage range of 110-120V and is an indoor rated product. Please make sure that the power mains voltage used is not higher or lower than what the product is rated for! The power plug must be inserted into a protected Class I socket and must be grounded properly.**
- In order to make sure the product is used properly, please read this manual carefully.

3.4 Cable Connection (DMX)

Make sure to use a DMX cable that is conforming to specifications EIA RS-485: 2-pole twisted, shielded, 120Ohm characteristic impedance, 22-24 AWG, Low capacity. Do not use microphone cable or other cable with characteristics differing from those specified. The end connections must be made using an XLR type 3 pin male/female connectors. A terminating plug must be inserted into the last fixture with a resistance of 120 Ohm (minimum 1/4 W) between terminals 2 and 3.

IMPORTANT: The wires must not make contact with each other or with the metal casing of the connectors. The casing itself must be connected to the ground of the connector plugs to insure proper grounding of the signal.

4. Display Operation



4.1 Key Description

The order of keys from left to right: Menu -> Up -> Down -> Enter

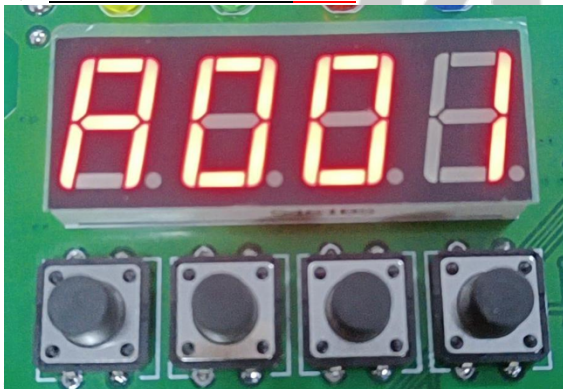
- 1) **Menu:** switch menu interface, next menu.
- 2) **Up:** It can be used for menu switching, the previous menu; when the confirmation key is pressed, it will go up and up, under the DMX address code interface, the address code will go up; under the working temperature setting interface, the working temperature will go up.
- 3) **Down:** When the confirmation key is pressed down, the address code will be decreased downward in the DMX address code interface; in the working temperature setting interface, the working temperature will be decreased downward.
- 4) **Enter:** The interface enters the setting state, and the current interface can add and subtract values. (Only valid under address code and working temperature)

4.2 Indicator Light Description

- 1) **Yellow light:** Blinking means that the working temperature has not been reached yet. Constant on means that the heater is heating properly and has reached the working temperature.
- 2) **Green light:** When it is constant on, it means that there is a DMX signal coming into the fixture, and when it is off, it means that the DMX signal is disconnected or not present.
- 3) **Red light:** Lights up when there is an error, such as a problem with temperature control monitor or a problem with heating system.
- 4) **Blue light:** always on when heating.

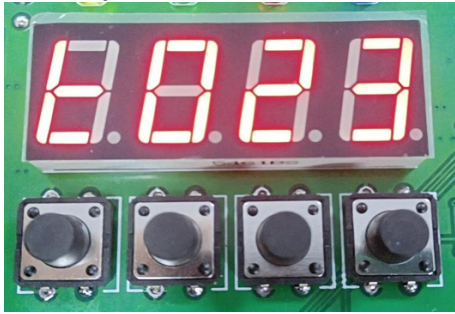
4.3 Interface Description (press the menu key or the up key to switch the interface)

- 1) **DMX Address code: A001**



Operation instructions: Press the enter key to enter the DMX address editing screen, you can select a DMX address between 001-511, and then press the enter key to exit the DMX address editing screen. (The fixture will not work on DMX address of 512 as it requires 2 channels to operate fully)

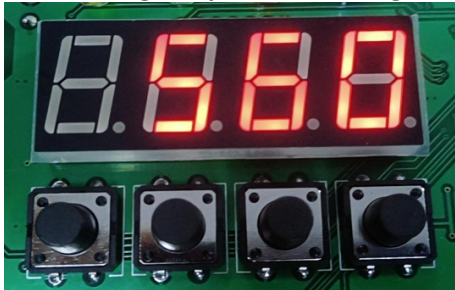
2) Temperature interface: **T023**



Operation instructions:

The current interface cannot be edited. It is available for real-time monitoring of the current temperature of the heater.

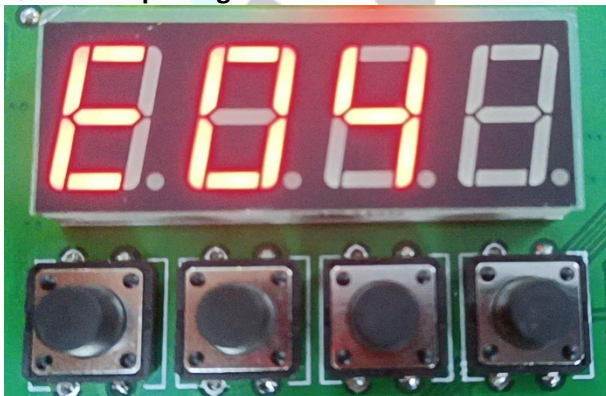
3) Working temperature setting interface: **560**



Operation instructions:

This settings screen is for setting the working temperature of the fixture. Operation of the fixture can start only when the temperature reaches the currently set in this screen. Press the enter key to enter editing mode. The temperature range can be selected from 560° - 620°. Press the enter key to exit the editing state and save the current setting.

4) Error reporting interface:



Operation instructions:

The current interface cannot be edited, and it only appears when an error is detected.

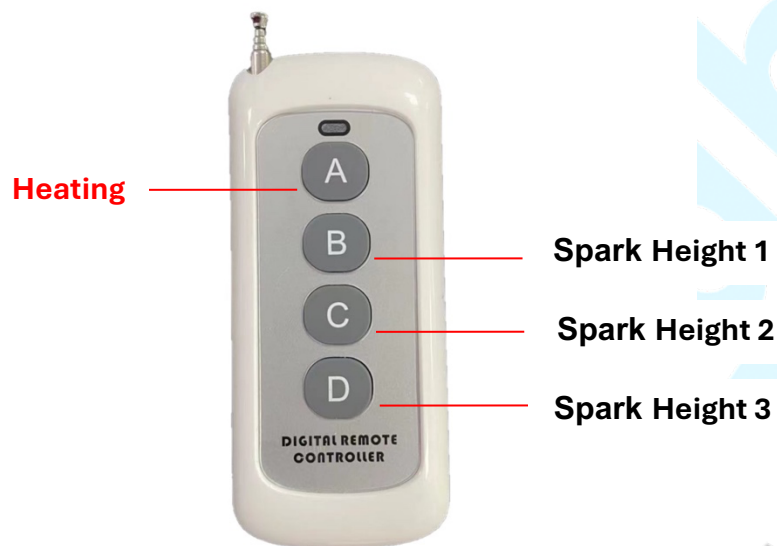
E01: An error is reported when the temperature is lower than 10 degrees after heating for 2 minutes.

E02: An error is reported when the temperature does not reach the working temperature after heating for half an hour without operating.

E03: The temperature is too high and an error is reported.

E04: An error is reported when the temperature control is abnormal.

4.4 Remote Control Operation



1) Button A: Press it once to start heating, observe that the blue indicator light is on and adjust to the temperature display interface to indicate that heating is in progress, the heating state increases, and press button A again to stop heating.

2) Button B: After reaching the heating temperature, press button B to select output height 1; during output, press button B to stop output.

3) Button C: After reaching the heating temperature, press button C to select output height 2; during output, press button C to stop output.

4) Button D: After reaching the heating temperature, press button D to select output height 3; during output, press button D to stop output.

5. DMX Channel Chart

Channel	Control Function	Value	Value Description
1	Close	000~009	Off
	Spark height 1	010~019	
	Spark height 2	020~029	
	Spark height 3	030~039	
	Spark height 4	040~049	
	Spark height 5	050~059	
	Spark height 6	060~069	
	Spark height 7	070~079	
	Spark height 8	080~089	
	Spark height 9	090~099	
	Spark height 10	100~255	
2	Heating off	000~009	Off
	Heating on	010~239	Display current temperature value
	Emergency stop	240~255	STOP

6. Technical Specifications

- **Input Voltage:** AC110-120V, 60Hz
- **Max Power Draw:** 700W
- **Operating Modes:** DMX or wireless remote control
- **DMX Channels:** 2CH
- **Effect Height:** Adjustable via DMX 10 levels
- **Waterproof Grade:** IP19 indoor use only
- **Powder:** We suggest using Acue Lighting Sparkie powder for best results and operation
- **Weight (Net):** 11.5 Lb
- **Size:** 8" x 9" x 10" (LxWxH)

7. Warranty

This product carries a 1-year manufacturer's warranty which covers factory defects or internal issues not caused by the owner/operator of the fixture. Misuse, physical damage, or any other issues caused by misuse by the customer are not covered under manufacturer's warranty. All warranty claims must be handled directly through the manufacturer and not the dealer. Original sales receipt required for all warranty claims. Submit all claims to Info@Acuelighting.com.

For more information about this product as well as all our other products please visit:

www.AcueLighting.com

Or contact us directly:

Email: Info@AcueLighting.com

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