

Stage Special Effects Equipment Controller User Manual

Product Model: BL1200

Remote Control Distance: 300-500M

Power Supply: 6 × 1.5V batteries (AA type)

Control Zones: 100 zones (0-99)

Groups per Zone: 12 groups (1-12)

Special Function Keys: Raid, ALL Fire

1. Product Introduction

Thank you for choosing this stage special effects equipment controller. Specifically designed for stage performances, events, and celebration decorations, this device supports precise multi-zone and multi-group control with simple operation and rapid response. It is suitable for wireless control of various special effects equipment including LED lights, effect lights, and color wash lights.

Powered by batteries, the device is portable and easy to deploy on site without relying on fixed power sources, making it ideal for outdoor performances, mobile stages, and temporary setups.

2. Product Structure Description

The controller consists of two main areas:

2.1 Upper Section: Remote Zone Display Area

- Displays the current operating zone number (0-99)
- Each zone can independently control 12 groups of lighting equipment
- Supports quick zone switching for independent operation of different areas

2.2 Lower Section: Keypad Control Area

- **Numeric Keys (1-12):** Control the 1st to 12th groups of equipment in the current zone
 - Press any key to turn on/off the corresponding group or trigger preset effects
- **Function Keys:**
 - **Raid Key:** Triggers “Assault Mode” - rapid flashing, high-intensity combinations suitable for intense rhythm and passionate performance scenes
 - **ALL Fire Key:** Triggers “All On Mode” - activates all 12 groups of equipment in the current zone simultaneously, achieving synchronized lighting or explosive effects

3. Operation Instructions

3.1 Power On/Off

Battery Installation: Open the back battery compartment and insert 6 × 1.5V AA batteries, paying attention to the correct polarity.

Power On: Press and hold any key or dedicated power key (if equipped) for 3 seconds until the screen lights up and the system performs self-check.

Power Off: Press and hold the power key for 3 seconds, or the device will automatically enter sleep mode after prolonged inactivity (optional feature depending on firmware).

3.2 Zone Selection and Switching

- The controller supports 100 independent zones (0-99)
- Use the “▲/▼” or “Previous Zone/Next Zone” buttons on the panel to switch zones
- The screen displays the current zone number in real-time, e.g., “Zone: 05”
- **Tip:** Different zones can control different configurations, facilitating multi-zone stage equipment setup

3.3 Group Control (1-12 Keys)

- In each zone, the 12 keys control 12 groups of equipment respectively
- **Operation Method:**
 - Short press: Turn on the corresponding group equipment
 - Release: Turn off the corresponding equipment
- **Example:**
 - In “Zone 03”, press “5” key → Activate group 5 equipment
 - Release “5” key → Deactivate group 5 equipment

3.4 Special Function Key Usage

Raid Key

- **Function:** Activate “Raid Mode” - a high-rhythm combination effect
- **Applicable Scenes:** Climax sections, drum beats, audience interaction segments
- **Operation:** Press the “Raid” key to make the current zone equipment change rapidly according to preset programs; release the “ALL Fire” key to exit

ALL Fire Key

- **Function:** Trigger “All On” command, simultaneously activating all 12 groups of equipment in the current zone
- **Applicable Scenes:** Program climax, 全场 lighting, final freeze frame
- **Operation:** Press the “ALL Fire” key to instantly execute explosive effects on all group equipment

4. Application Scenario Examples

Scenario	Zone Setting	Operation Suggestions
Stage Sides	Zone 01 (Left), Zone 02 (Right)	Control separately for alternating left-right lighting
Audience Area	Zone 10	Use “ALL Fire” to instantly light up the entire audience area
Rhythmic Climax	Zone 05	Press “Raid” key in sync with music rhythm
Progressive Effect	Zone 00	Press keys 1→6 sequentially to simulate wave effect

5. Precautions

Battery Usage:

- Recommend using alkaline batteries to ensure stable power supply

- Remove batteries when not in use for extended periods to prevent leakage and equipment damage

Operating Environment:

- Use in dry, ventilated environments, avoiding moisture and high temperatures
- Keep away from strong magnetic fields and high-voltage equipment to prevent signal interference

Signal Transmission:

- If using wireless modules (e.g., RF), ensure proper connection of receiving ends
- Avoid obstacles that may block signals to maintain stable transmission

Equipment Maintenance:

- Regularly clean the keypad surface to prevent dust from affecting touch sensitivity
- Avoid severe impacts or drops

6. Troubleshooting

Problem Phenomenon	Possible Causes	Solutions
Keys unresponsive	Dead batteries or poor contact	Replace with new batteries, check battery compartment springs
Some groups not responding	Equipment not connected or address error	Check equipment connections and address settings
Screen not lighting	Incorrect battery installation or power failure	Reinstall batteries, confirm polarity
ALL Fire not working	Function locked or program conflict	Restart controller, reset zone settings

7. Technical Specifications

- **Power Input:** 6 × 1.5V AA batteries (DC 9V)
- **Control Zones:** 100 zones (0-99)
- **Groups per Zone:** 12 groups
- **Output Interface:** Wireless RF
- **Operating Temperature:** -10°C ~ +50°C
- **Storage Temperature:** -20°C ~ +60°C
- **Housing Material:** High-strength ABS engineering plastic
- **Product Dimensions:** Approximately 250 × 220 × 150 mm
- **Weight:** Approximately 2050g (without batteries)

8. After-Sales Service

This product comes with a one-year limited warranty from the date of purchase. The warranty does not cover man-made damage, battery leakage, or Unauthorized disassembly.

For technical issues or accessory needs, please contact your supplier or manufacturer customer service.

Let light and shadow move with your heart, illuminating every wonderful performance!

FCC Caution:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.