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Boulder 43237-2

Boulder 18x15W RGBWA 5-in-1 DMX512 LED Par Light User Manual

Model: 43237-2

1. Introduction

This manual provides essential information for the safe and effective operation of your Boulder 18x15W RGBWA 5-in-1 DMX512 LED Par Light. This high-power indoor LED par can is designed for professional stage lighting applications, offering excellent color mixing, quiet operation, and flicker-free control. It is suitable for large-scale concerts, TV studios, indoor architectural lighting, nightclubs, parties, churches, and theaters.

Please read this manual thoroughly before installation and use to ensure proper functionality and to prevent damage or injury.



Figure 1: Boulder 18x15W RGBWA 5-in-1 DMX512 LED Par Light. This image displays the front view of the LED par light, showcasing its 18 individual LED lenses and the robust dual mounting bracket.

2. Safety Instructions

To reduce the risk of electrical shock, fire, or injury, always follow these basic safety precautions:

- **Electrical Safety:** Ensure the power supply voltage matches the specified requirements (AC90-260V 50/60Hz). Always disconnect the power before cleaning, servicing, or moving the fixture.
- **Grounding:** The fixture must be properly grounded to prevent electrical shock.
- **Installation:** Install the fixture in a well-ventilated area, away from flammable materials. Ensure the mounting surface or structure can support the weight of the fixture. Use safety cables when hanging the unit.
- **Temperature:** Do not operate the fixture in ambient temperatures outside the range of -20°C to 45°C. Ensure adequate airflow around the unit to prevent overheating.

- **Moisture:** This fixture has an IP20 protection rating, meaning it is not protected against water. Do not expose it to rain or moisture.
- **Direct Eye Exposure:** Avoid looking directly into the LED light source when the fixture is operating, as it can cause eye strain or damage.
- **Servicing:** Refer all servicing to qualified personnel. Do not attempt to repair the unit yourself.

3. Product Features

The Boulder LED Par Light is engineered with advanced features for superior performance:

- **Powerful LEDs:** Equipped with 18x15W 5-in-1 RGBWA (Red, Green, Blue, White, Amber) LEDs for a broad spectrum of colors.
- **Long Lifespan:** LEDs boast a 50,000-hour life span, ensuring long-term reliability and low maintenance.
- **Optimal Cooling:** Features an aluminum die-casting structure design with an integrated, highly effective heat sink system for efficient thermal management.
- **Beam Angle:** A precise 25° projection beam angle for focused and impactful lighting.
- **Color Mixing:** Infinite color mixing system with 16.7 million additive colors and full saturation control, plus rainbow effects.
- **Control Modes:** Supports DMX512, Master-Slave, Sound Activated, and Auto operation modes.
- **DMX Channels:** Selectable 5 or 9 DMX channels (USITT DMX-512) for versatile control.
- **Built-in Programs:** Includes pre-programmed macros and effects with variable speed, accessible via DMX or standalone modes.
- **Dimming & Strobe:** 0-100% electronic dimming and blackout for all LEDs, along with high-speed LED strobe and pulse strobe effects.
- **User Interface:** LED display with 4 control buttons for easy navigation and setting adjustments.
- **Connectivity:** Power connector IN and 3-Pin XLR connectors IN/OUT for DMX signal.
- **Mounting:** Dual mounting brackets allow for ground placement or hanging applications.



Figure 2: Examples of color mixing and individual LED colors. This image illustrates the vibrant range of colors achievable with the RGBWA 5-in-1 LEDs, showing various single colors and mixed hues.

4. Setup

4.1 Unpacking

Carefully unpack the fixture and check for any damage during transportation. Ensure all components are present: the LED Par Light unit and this user manual. If any damage is found or parts are missing, contact your supplier immediately.

4.2 Mounting

The fixture comes with dual mounting brackets, allowing for flexible installation:

- **Ground Application:** Place the fixture on a stable, level surface. The brackets can be adjusted to angle the light as desired.

- **Hanging Application:** Securely attach the brackets to a truss or suitable overhead structure using appropriate clamps (not included). Always use a safety cable (not included) that can hold at least 10 times the weight of the fixture. Ensure all connections are tight and secure.

4.3 Power Connection

Connect the power cable to the power connector IN on the rear of the fixture. Ensure the power source is within the specified voltage range (AC90-260V 50/60Hz). Do not overload the circuit.

4.4 DMX Connection

For DMX control, connect a DMX controller to the DMX IN port of the first fixture using a 3-pin XLR cable. For multiple fixtures, daisy-chain them by connecting the DMX OUT of the first fixture to the DMX IN of the next, and so on. Ensure the last fixture in the chain has a DMX terminator (120 Ohm resistor between pins 2 and 3) to prevent signal reflection.



Figure 3: Rear view of the control panel and connection ports. This image shows the LED display, control buttons (MENU, UP, DOWN, ENTER), power input, and 3-pin XLR DMX IN/OUT ports.

5. Operating Modes

The Boulder LED Par Light offers several operating modes, selectable via the LED display and control buttons on the rear panel.

5.1 DMX512 Control

This mode allows external control via a DMX controller. Set the DMX address for each fixture using the control panel. Each fixture requires a unique starting address. Refer to the DMX Channel Configuration section for channel assignments.

5.2 Master-Slave Mode

In this mode, one fixture acts as the 'Master' and controls other 'Slave' fixtures. Connect the DMX OUT of the Master unit to the DMX IN of the first Slave unit, and continue daisy-chaining. Set the Master unit to a desired auto or sound-activated program, and set the Slave units to 'Slave' mode. All Slave units will then synchronize with the Master.

5.3 Sound Activated Mode

The fixture will react to ambient sound, changing patterns and colors according to the beat. Sensitivity can often be adjusted through the menu settings.

5.4 Auto Operation Mode

The fixture runs through a series of pre-programmed internal shows and effects automatically. Various built-in programs can be selected and their speed adjusted via the control panel.

5.5 Using the Control Panel

The LED display and four buttons (MENU, UP, DOWN, ENTER) allow you to navigate through the fixture's settings and select operating modes, DMX addresses, and program parameters. Press MENU to cycle through main options, UP/DOWN to adjust values, and ENTER to confirm selections.

6. DMX Channel Configuration

The Boulder LED Par Light supports 5-channel and 9-channel DMX modes. The specific functions assigned to each channel depend on the selected mode. Consult the fixture's internal menu or a detailed DMX chart (often provided separately or available from the manufacturer) for precise channel assignments and values. Typically, channels control parameters such as:

- Dimmer (overall intensity)
- Red, Green, Blue, White, Amber intensity
- Strobe speed
- Color macros/pre-programmed effects
- Sound active mode activation

Ensure your DMX controller is configured to match the selected DMX channel mode of the fixture.

7. Maintenance

Regular maintenance ensures optimal performance and extends the lifespan of your LED Par Light.

7.1 Cleaning

Clean the exterior casing and lenses periodically with a soft, lint-free cloth. For stubborn dirt, use a mild glass cleaner. Ensure the fixture is powered off and cool before cleaning. Do not use abrasive cleaners or solvents.

7.2 Inspection

Periodically inspect power cables, DMX cables, and mounting hardware for any signs of wear, damage, or loose connections. Replace damaged cables immediately. Ensure all screws and bolts are tight.

7.3 Storage

When not in use, store the fixture in a dry, dust-free environment, preferably in its original packaging or a protective case.

8. Troubleshooting

If you encounter issues with your Boulder LED Par Light, refer to the following common problems and solutions:

- **No Power:**
  - Check if the power cable is securely connected to both the fixture and the power outlet.
  - Verify the power outlet is functional.
  - Ensure the input voltage is within the specified range.
- **No DMX Control:**
  - Check DMX cable connections (IN/OUT).
  - Verify the DMX address on the fixture matches the address set on your controller.
  - Ensure the DMX channel mode on the fixture matches your controller's settings.
  - Confirm a DMX terminator is used on the last fixture in the chain.
  - Test with a different DMX cable or controller.
- **Incorrect Color Output/Flickering:**
  - If using DMX, check DMX channel values for color and dimmer.
  - Ensure the fixture is not overheating; check for proper ventilation.
  - Reset the fixture to factory defaults if available in the menu.
- **Fixture Overheating:**
  - Ensure there is adequate space around the fixture for airflow.
  - Verify ambient temperature is within the operating range.
  - Clean any dust or debris from cooling vents.

If problems persist, contact customer support.

9. Specifications

Feature	Specification
Input Voltage	AC90-260V 50/60Hz
LED Quantities	18 * 15W 5-in-1 LEDs (RGBWA)
LED Lifespan	50,000 hours
Power Consumption	270W
Projection Beam Angle	25°
Control Signal	DMX512, Master-Slave, Sound Activated, Auto Operation

Feature	Specification
Control Channels	5/9 DMX channels (USITT DMX-512)
Dimming	0-100% electronic dimming
Strobe Effect	High speed LED strobe and pulse strobe
Protection Rating	IP20
Ambient Temperature	-20℃ to 45℃
Housing Material	Aluminum die-casting
Dimensions (L x W x H)	324mm (D) x 220mm (W) x 262.4mm (H) (approx. 12.76"L x 8.66"W x 10.33"H)
Gross Weight	2.75.7 kg (Note: The original data '2.75.7kg' appears to be a typo, likely 2.7kg or 5.7kg. Assuming it refers to the unit's weight.)
Model Number	43237-2
UPC	636946383220

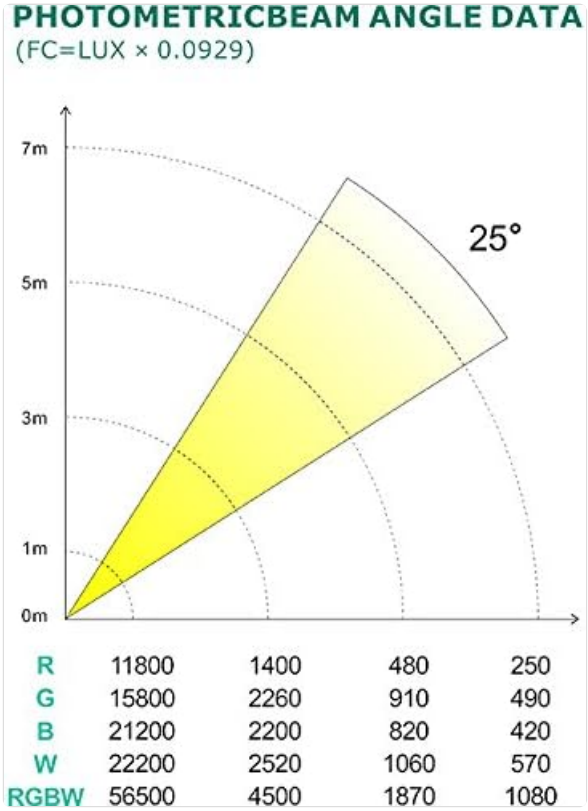


Figure 4: Photometric beam angle data. This chart illustrates the light intensity (FC=LUX x 0.0929) at various distances (in meters) for different color combinations (RGB, G, B, W, RGBW) with a 25-degree beam angle.

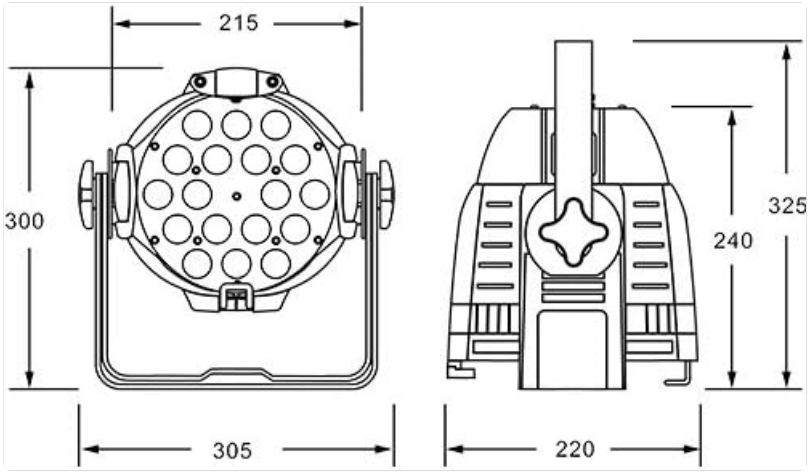


Figure 5: Dimensional drawing of the Boulder LED Par Light. This diagram provides key measurements in millimeters for the front and side views of the fixture, including width, depth, and height.

10. Warranty and Support

This product is covered by a manufacturer's warranty against defects in materials and workmanship. The specific terms and duration of the warranty may vary. Please retain your proof of purchase for warranty claims.

For technical support, warranty inquiries, or service, please contact your retailer or the manufacturer directly. Provide your product model number (43237-2) and purchase date when contacting support.

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