Boulder 36x10W RGBW LED Moving Head Wash Beam Stage Light

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Instruction Manual

INTRODUCTION

This manual provides essential information for the safe and effective operation of your Boulder Pro 36x10W RGBW LED Moving Head Wash Beam Stage Light. Please read these instructions thoroughly before installation, operation, or maintenance to ensure proper use and to prevent damage to the unit or injury to personnel. Keep this manual for future reference.

SAFETY INFORMATION

- **Electrical Safety:** Always connect the unit to a grounded power outlet. Disconnect power before any service or maintenance. Ensure the power supply voltage matches the unit's requirements (AC90-260V 50/60Hz).
- **Installation:** This device is designed for indoor use only. Ensure proper ventilation around the unit. Do not expose to rain or moisture.
- **Handling:** Avoid direct eye exposure to the light source. Do not operate the unit if the housing is damaged.
- **Temperature:** Operate within an ambient temperature range of -20°C to 45°C.

PRODUCT OVERVIEW

The Boulder Pro 36x10W RGBW LED Moving Head Wash Beam Stage Light is a versatile lighting fixture featuring 36 high-power 10W 4-in-1 RGBW LEDs. It offers a motorized zoom function, allowing for beam angles from 8° to 60°, and provides various control options for dynamic lighting effects.

Key Features:

- 36 x 10W 4-in-1 RGBW LEDs for rich color mixing.
- Motorized linear zoom from 8° to 60°.
- High light output: 1130 LUX (8°) and 320 LUX (50°) at 5 meters (full RGBW).
- Multiple control modes: DMX512, master-slave, sound activated, and auto operation.

- 14 DMX channels (USITT DMX-512).
- Individual LED ring control for complex color sections and mixing.
- Effects include LED shutter, variable speed strobe, pulse, smooth LED dimmer, and rainbow effects.
- Efficient fan cooling system and blue LCD display.

Figure 1: The Boulder Pro 36x10W RGBW LED Moving Head Wash Beam Stage Light from the front, showcasing its compact design and the array of 36 RGBW LEDs.

SETUP

Unpacking

Carefully remove the fixture from its packaging. Inspect the unit for any damage that may have occurred during transit. Ensure all components listed in the packing list are present. If any damage or missing parts are found, contact your supplier immediately.

Mounting

The Boulder Pro stage light is designed for floor mounting. Ensure the mounting surface is stable and capable of supporting the unit's weight (9.18 kg net weight). Use the provided 1/4 turn fastening Omega clamp and safety attachment point for secure installation if suspending the unit (professional installation

recommended for suspended setups).

Connections

Figure 2: The rear panel of the stage light, highlighting the Powercon IN/OUT and 3-pin DMX IN/OUT connectors, along with the power switch and fuse.

- **Power Connection:** Connect the Powercon IN cable to a suitable AC90-260V 50/60Hz power source. The Powercon OUT port allows for daisy-chaining power to other compatible units.
- **DMX Connection:** Use a 3-pin DMX cable to connect the DMX OUT of your DMX controller to the DMX IN of the first fixture. For multiple fixtures, connect the DMX OUT of the first fixture to the DMX IN of the next, and so on.

OPERATING MODES

The Boulder Pro stage light offers several operating modes, selectable via the blue LCD display on the unit's base.

DMX512 Control

This mode allows for precise control over all fixture functions using a DMX controller. The unit utilizes 14 DMX channels (USITT DMX-512). Refer to the DMX channel chart (typically found in a separate DMX protocol document or appendix) for specific channel assignments and values.

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 an auto or sound-activated mode, and set slave units to slave mode.

Sound Activated Mode

The fixture can react to ambient sound, changing patterns and colors in sync with music or audio input. Select this mode via the LCD display.

Auto Operation Mode

The fixture can run pre-programmed internal sequences and patterns without external control. Various auto programs can be selected via the LCD display.

Specific Effects

- **Color Mixing:** The 4-in-1 RGBW LEDs allow for a wide spectrum of colors.
- **Zoom:** Motorized zoom adjusts the beam angle from 8° (narrow spot) to 60° (wide wash).
- **Strobe:** Variable speed strobe effect, up to 25 flashes per second, including pulse effects.
- **Dimmer:** Smooth LED dimmer for all four colors (RGBW) from 0-100%.
- **Ring Control:** The LEDs are divided into three controllable rings (inner, middle, outer), allowing for complex multi-color patterns and chases.
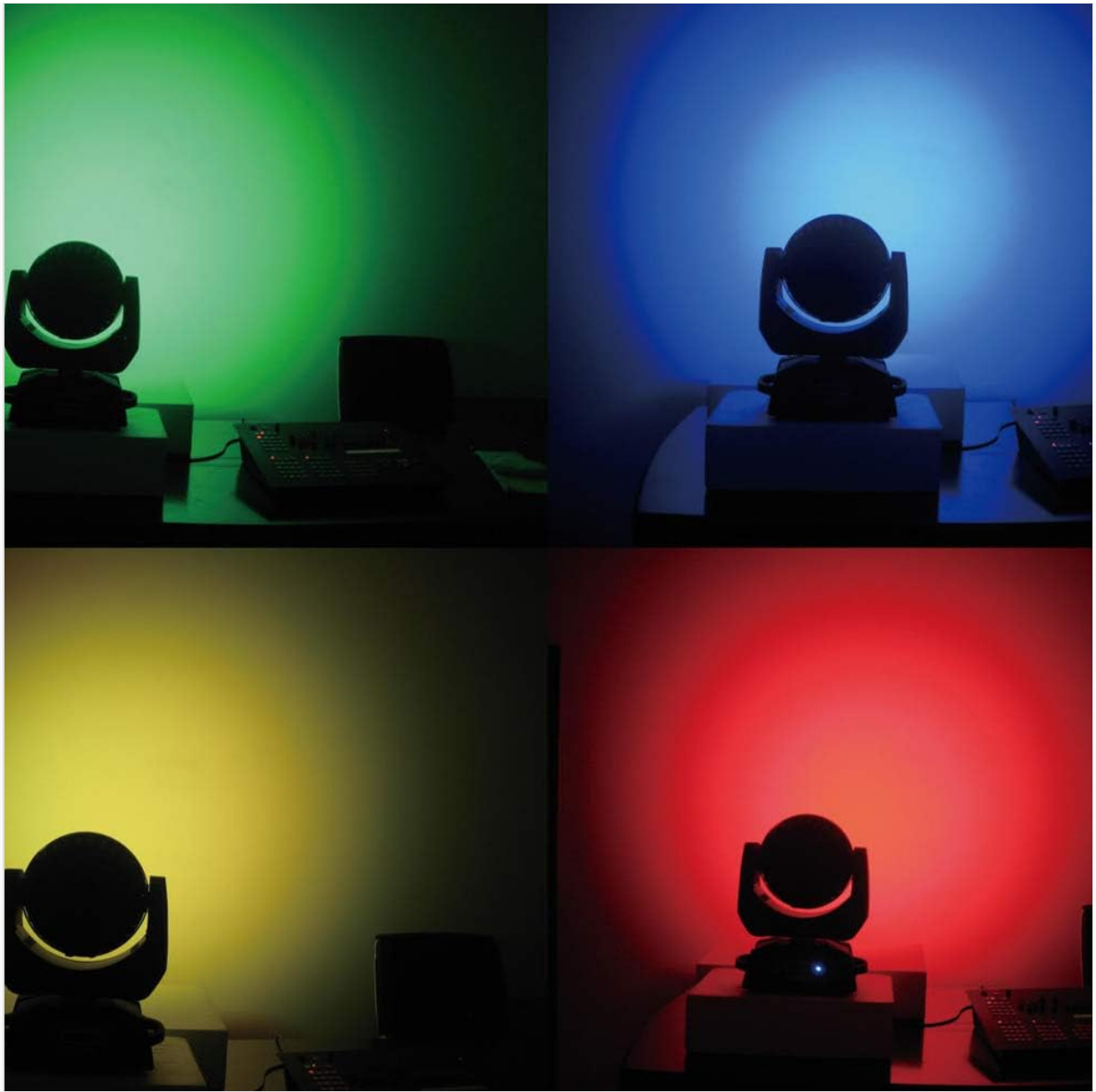
Figure 3: This image illustrates the versatile color output of the stage light, showing examples of green, blue, yellow, and red light beams projected onto a surface.

Figure 4: A detailed view of the LED array, demonstrating the individual RGBW LEDs illuminated in different color combinations, showcasing the ring control capability.

MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your stage light.

- **Cleaning:** Periodically clean the lenses and exterior housing with a soft, lint-free cloth. Do not use abrasive cleaners or solvents. Ensure the unit is powered off and cooled down before cleaning.
- **Cooling System:** The unit features an efficient fan cooling system. Ensure the fan vents are clear of dust and debris to prevent overheating. Regular inspection and cleaning of the vents are recommended.
- **Cable Inspection:** Regularly check power and DMX cables for any signs of wear or damage. Replace damaged cables immediately.

TROUBLESHOOTING

This section addresses common issues you might encounter with your Boulder Pro stage light.

- **No Power:**

- Check if the power cable is securely connected to both the unit and the power outlet.
- Verify the power switch on the unit is in the 'ON' position.
- Check the fuse on the rear panel and replace if blown (refer to specifications for fuse type).

- **No DMX Control / Incorrect Behavior:**

  - Ensure DMX cables are correctly connected (DMX OUT to DMX IN).
  - Verify the DMX address of the fixture matches the address set on your controller.
  - Check for proper DMX termination at the end of the DMX chain.
  - Confirm the DMX controller is functioning correctly.

- **Only White Light / Incorrect Colors:**

  - In DMX mode, ensure the DMX values for RGBW channels are being sent correctly by your controller.
  - If using ring control, verify that all ring color attributes are correctly assigned and controlled.
  - Reset the fixture to factory defaults via the LCD menu, then reconfigure.

- **Excessive Fan Noise:**

  - While some fan noise is normal for cooling, ensure the unit is not overheating due to blocked vents.
  - Clean any dust or debris from the fan vents.
 - If noise persists and is unusually loud, contact support.

SPECIFICATIONS

Feature	Specification
Input Voltage	AC90-260V 50/60Hz
LED Quantities	36 x 10W 4-IN-1 RGBW LEDs
Power Consumption	370W
Control Signal	DMX512, master-slave, sound activated, auto operation
Control Channels	14 DMX Channels (USITT DMX-512)
Zoom Angle	Motorized 8° - 60°
Light Output (RGBW @ 5M)	1130 LUX (8°), 320 LUX (50°)
Lifespan	50,000 hours (LEDs)
Strobe Effect	25 flashes per second, pulse effect
Ambient Temperature	-20°C ~ 45°C max
IP Rating	IP20
Connectors	Powercon IN/OUT, 3-Pin DMX IN/OUT
Dimensions (D*W*H)	229mm * 330mm * 437mm (9.02"L x 12.99"W x 17.2"H)

Net Weight	9.18 kg (21.4 pounds)

PHOTOMETRICBEAM ANGLE DATA
(FC=LUX × 0.0929)
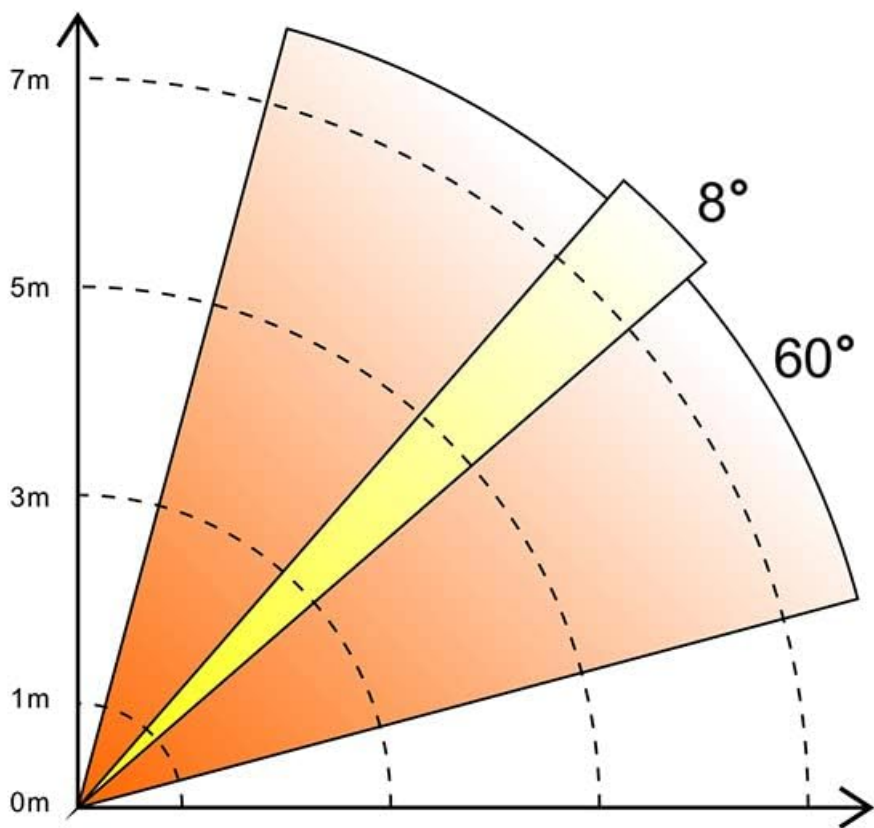
< 8°>

R	2290	440	150	75
G	3240	550	230	120
B	10080	1350	460	210
W	5520	1000	430	205
RGBW	21360	3100	1130	580

< 60°>

R	770	100	80	20
G	1530	210	80	45
B	2760	360	140	70
W	2040	280	110	55
RGBW	2310	810	320	170

Figure 5: This diagram provides photometric data, illustrating the beam angle range from 8 to 60 degrees and corresponding LUX values at various distances for different colors (R, G, B, W, RGBW).
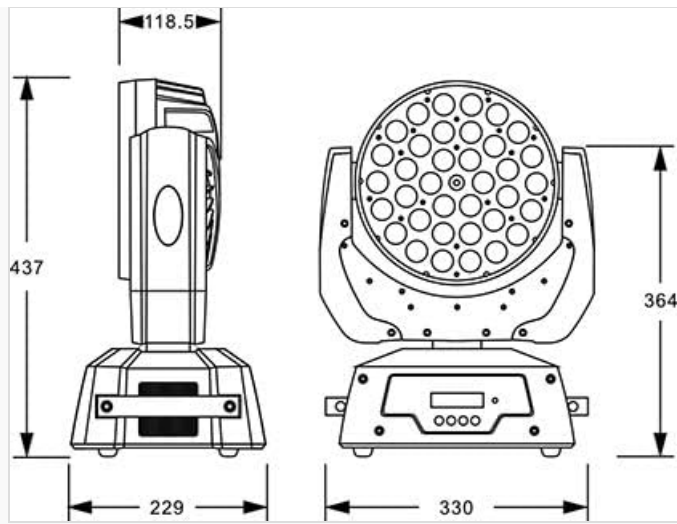
Figure 6: A technical drawing detailing the dimensions of the stage light, including height (437mm), width (330mm), and depth (229mm), crucial for installation planning.

WARRANTY AND SUPPORT

For warranty information, please refer to the terms and conditions provided at the time of purchase or contact your retailer. Boulder offers various protection plans for extended coverage, which can be purchased separately.

For technical support or service inquiries, please contact the manufacturer or your authorized dealer. Ensure you have your product model and purchase details available when seeking assistance.

Related Documents - 36x10W RGBW LED Moving Head Wash Beam Stage Light

2–arm RGB Moving Head Light **USER MANUAL**	[2-arm RGB Moving Head Light User Manual](#) Comprehensive user manual for the 2-arm RGB Moving Head Light, covering setup, safety, operating modes (Automatic, Sound, Console/Master-Slave), DMX control, and technical specifications. Includes detailed instructions for installation and operation.
LED 300W Beam Moving Head User Manual	[SHOWLIGHT LED 300W Beam Moving Head User Manual & Specifications](#) Comprehensive user manual for the SHOWLIGHT LED 300W Beam Moving Head stage lighting fixture. Includes installation, safety, technical specifications, DMX control, and operation details.

[Moving Head Beam User Manual - UKING](#)

Comprehensive user manual for the UKING Moving Head Beam stage light, covering installation, operation, safety, and DMX channel functions.

[LED MOVING WASH 7 RGBW ZOOM PLUS User Manual and Technical Specifications](#)

Comprehensive user manual for the LED MOVING WASH 7 RGBW ZOOM PLUS moving head lighting effect, detailing its features, DMX control, operating procedures, safety guidelines, and technical specifications.

[61X30W WASH ZOOM MOVING HEAD User Manual - YUER Lighting](#)

Comprehensive user manual for the YUER 61X30W RGBW 4in1 Wash Zoom Moving Head stage lighting fixture. Includes setup, safety, DMX configuration, technical specifications, and maintenance.

[WZYBUTA 60W Bee Eye Moving Head Light - Technical Specifications and DMX Control](#)

Detailed technical specifications, product parameters, and DMX channel functions for the WZYBUTA 60W Bee Eye Moving Head stage light, including operating modes, menu instructions, and control settings.