

## Boulder 36x10W

# Boulder Pro 36x10W RGBW LED Moving Head Wash Beam Stage Light Instruction Manual

## 1. INTRODUCTION

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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 and use, and retain them for future reference.

## 2. SAFETY INFORMATION

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- **Electrical Safety:** Ensure the power supply matches the voltage requirements (AC90-260V 50/60Hz). Always disconnect power before servicing or cleaning.
- **Installation:** Install the fixture in a well-ventilated area, away from heat sources. Ensure secure mounting using the provided Omega clamp and safety attachment point.
- **Operation:** Do not look directly into the light source. Avoid operating in environments exceeding 45°C (113°F) or below -20°C (-4°F).
- **Maintenance:** Refer to the maintenance section for cleaning and care instructions. Only qualified personnel should perform repairs.

## 3. PRODUCT FEATURES

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- 36PCS 10W 4-IN-1 RGBW LEDs for vibrant color mixing.
- Motorized linear zoom from 8° to 60° for versatile beam control.
- High light output: 1130LUX (8°) and 320LUX (50°) @5M at full RGBW.
- 50,000 hours lifespan and low power consumption (370W).
- High efficiency LED shutter with variable speed, smooth LED dimmer, LED rainbow effect, macros, and strobe effect (25 flashes per second).
- Control via DMX512 (22 channels), master-slave, sound activated, or auto operation.
- Blue LCD display for easy configuration.
- Lower noise and efficient FAN cooling system.
- Powercon IN/OUT and 3-Pin DMX connectors IN/OUT.

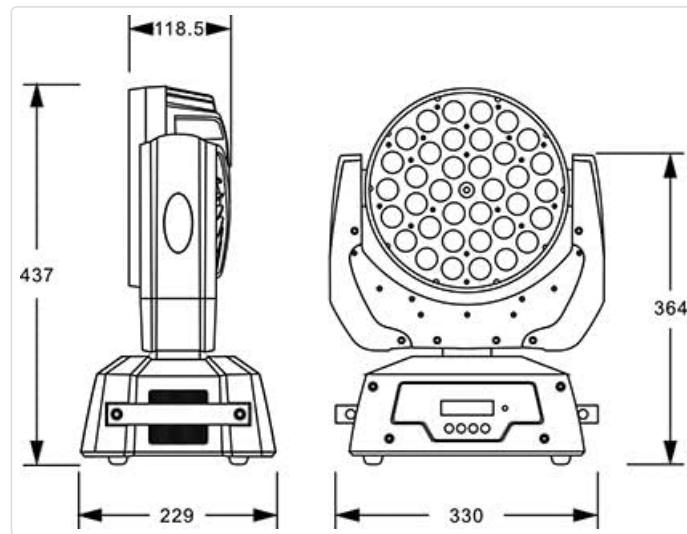
- IP20 protection rating.

## 4. PACKAGE CONTENTS

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Verify that all items are present and in good condition upon unpacking:

- Boulder Pro 36x10W RGBW LED Moving Head Wash Beam Stage Light unit(s)
- 1/4 turn fastening Omega clamp
- Safety attachment point
- Powercon cable
- DMX cable



**Figure 4.1:** Included accessories for the Boulder Pro 36x10W RGBW LED Moving Head Wash Beam Stage Light. This includes an Omega clamp for mounting, a safety attachment cable, a Powercon power cable, and a DMX signal cable.

## 5. SETUP INSTRUCTIONS

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### 5.1. Physical Installation

Mount the light securely using the provided Omega clamp to a truss or suitable overhead structure. Always attach the safety attachment point to prevent accidental falls. Ensure adequate clearance for movement and ventilation.



**Figure 5.1:** Front view of a single Boulder Pro 36x10W RGBW LED Moving Head Wash Beam Stage Light, showing the LED array and moving head mechanism.



**Figure 5.2:** Dimensional drawing of the light fixture, indicating its height, width, and depth in millimeters. The dimensions are approximately 229mm (D) x 330mm (W) x 437mm (H).

## 5.2. Electrical Connections

Connect the power cable to the Powercon IN port on the rear of the unit. For daisy-chaining power to multiple units, use the Powercon OUT port. Connect DMX control cables to the 3-Pin DMX IN/OUT ports for signal transmission.



**Figure 5.3:** Rear view of the light, highlighting the Powercon IN/OUT and 3-Pin DMX IN/OUT connectors, along with the power switch and fuse.

### 5.3. Control Mode Selection

The fixture supports DMX512, master-slave, sound activated, and auto operation modes. Use the blue LCD display on the base of the unit to navigate menus and select your desired control mode and DMX address if applicable.

## 6. OPERATING INSTRUCTIONS

### 6.1. DMX Control

The Boulder Pro 36x10W utilizes 22 DMX channels. Refer to the DMX chart (not provided in this manual, typically found in a separate DMX protocol document) for specific channel assignments for pan, tilt, color (RGBW), zoom, dimmer, strobe, and effects. Ensure your DMX controller is configured correctly to match the fixture's DMX address and channel layout.

### 6.2. Standalone Operation (Auto/Sound Activated)

In auto mode, the fixture will cycle through pre-programmed light shows. In sound-activated mode, the light will react to ambient sound via its built-in microphone. These modes are selected via the LCD display.

### 6.3. Key Features in Operation

- **Color Mixing:** Achieve a wide spectrum of colors through RGBW mixing.
- **Zoom:** Adjust the beam angle from a narrow 8° spot to a wide 60° wash.
- **Dimming:** Smooth 0-100% electronic dimming.
- **Strobe:** Variable speed strobe effect up to 25 flashes per second.
- **Effects:** Utilize LED rainbow effect and pre-programmed macros for dynamic lighting.

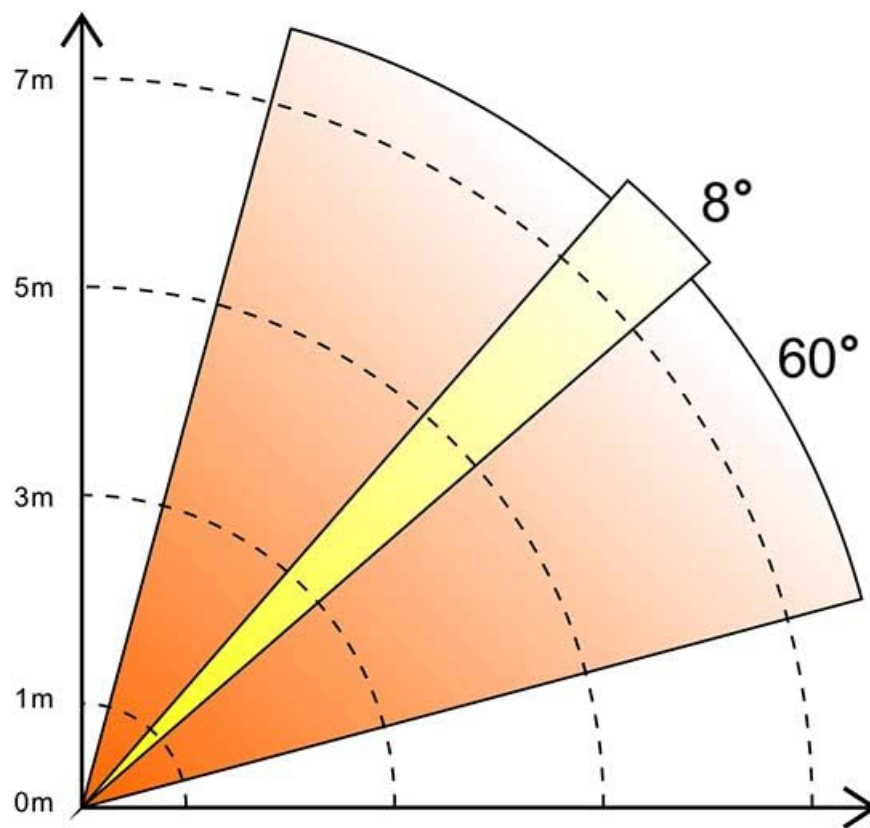


**Figure 6.1:** An array of Boulder Pro 36x10W RGBW LED Moving Head Wash Beam Stage Lights demonstrating their color mixing capabilities, including green, red, blue, and white outputs.



## PHOTOMETRIC BEAM 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 6.2:** Photometric beam angle data illustrating the light's zoom capabilities from 8° to 60°, along with corresponding LUX values for different colors at various distances.

### 6.4. Product Demonstration Video

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**Video 6.1:** This video demonstrates the various color outputs and beam movements of a similar RGBW LED moving head light. It showcases the dynamic capabilities of such fixtures in a stage or event setting.

## 7. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your light fixture.

- **Cleaning:** Periodically clean the lenses and exterior with a soft, lint-free cloth. Avoid abrasive cleaners.
- **Fan and Vents:** Ensure cooling fans and ventilation openings are free from dust and debris to maintain efficient cooling.
- **Inspection:** Regularly check all cables, connections, and mounting hardware for signs of wear or damage.

## 8. TROUBLESHOOTING

If you encounter issues, consult the following common problems and solutions:

Problem	Possible Cause	Solution
No power	Power cable disconnected, no power from outlet, blown fuse.	Check power connections, test outlet, replace fuse (T3.15A, 250V).
No DMX control	Incorrect DMX address, faulty DMX cable, DMX controller issue, incorrect DMX profile.	Verify DMX address on fixture and controller. Test DMX cables. Ensure DMX profile matches fixture's 22-channel layout.
Only white light output	DMX profile misconfiguration, internal fault.	Review DMX channel assignments, especially for R, G, B, W channels. Ensure they are not all set to white or that individual color channels are not stuck. If issue persists, contact support.
Excessive fan noise	Normal operation, dust in fan, fan malfunction.	Some fan noise is normal, especially when LEDs are active. Clean fan and vents. If noise is abnormal, contact support.
No movement (Pan/Tilt)	DMX channel for Pan/Tilt not active, motor fault.	Check DMX channel values for Pan/Tilt. Ensure fixture is not in a static mode.

## 9. SPECIFICATIONS

Feature	Detail
LED Quantities	36PCS 10W 4-IN-1 LEDs
Input Voltage	AC90-260V 50/60Hz
Power Consumption	370W
Control Signal	DMX512, master-slave, sound activated, auto operation
Control Channel	22 DMX Channels USITT DMX-512
Zoom Angle	8° - 60° Motorized
Light Output	1130LUX (8°) and 320LUX (50°) @5M (full RGBW)
Lifespan	50,000 hours (LEDs)



Feature	Detail
Ambient Temperature	-20°C ~ 45°C max
Protection Rating	IP20
Dimensions (D*W*H)	229mm * 330mm * 437mm
Net Weight	9.18kg
Gross Weight	10.72kg

## 10. WARRANTY AND SUPPORT

For warranty information or technical support, please contact Boulder Lighting directly. Keep your purchase receipt as proof of purchase. The manufacturer is Guangzhou Baide Lighting LTD.