Boulder B07Q98FTK8

Boulder LED Moving Head Wash Light 108x3W RGBW User Manual

Model: B07Q98FTK8

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your Boulder LED Moving Head Wash Light. This professional stage lighting fixture features 108x3W RGBW LEDs, offering versatile color mixing and dynamic movement for various event settings. Please read this manual thoroughly before installation and operation.

2. SAFETY INFORMATION

- Ensure the product is installed by qualified personnel.
- Always connect the product to a grounded power outlet.
- Do not operate the fixture if the power cord is damaged.
- Avoid direct eye exposure to the light source.
- Maintain adequate ventilation around the fixture to prevent overheating.
- Disconnect power before any cleaning or maintenance.
- This fixture is rated IP20 for indoor use only. Avoid exposure to moisture.

3. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- Boulder LED Moving Head Wash Light (1 unit)
- Powercon Power Cable
- DMX Cable (3-pin)
- Omega Clamp (1/4 turn fastening)

- Safety Attachment Cable
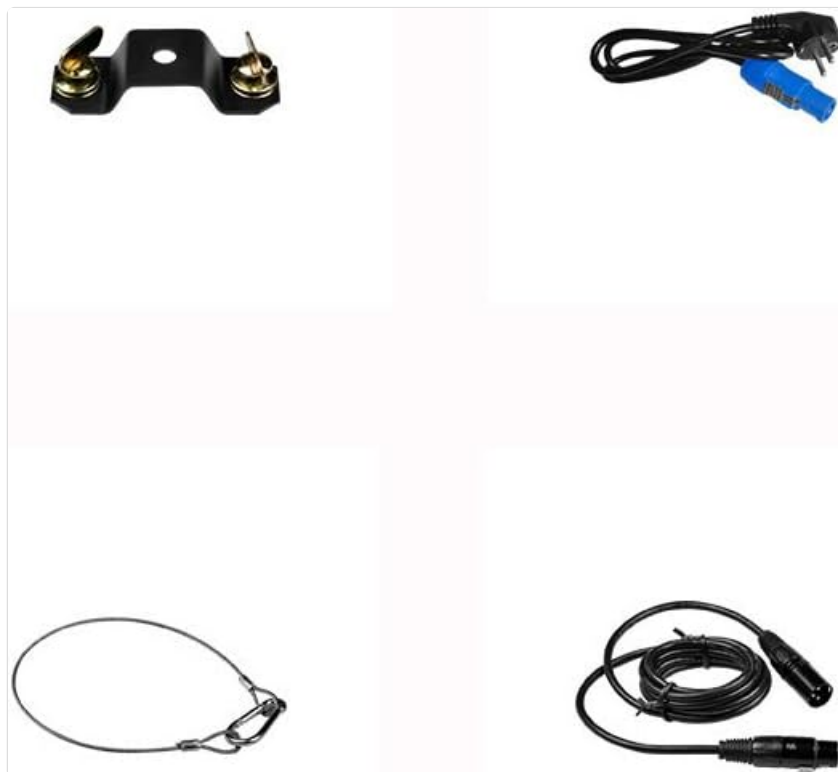- User Manual (this document)

Figure 3.1: Included accessories for the Boulder LED Moving Head Wash Light. This image displays an Omega clamp, a power cable, a DMX cable, and a safety attachment cable, which are essential for installation and operation.

4. PRODUCT OVERVIEW

The Boulder LED Moving Head Wash Light is designed for professional stage and event lighting, featuring robust construction and advanced control options.

4.1 Front View

Figure 4.1: Front view of the Boulder LED Moving Head Wash Light. The fixture features a circular array of 108 RGBW LEDs and a control panel with an LCD display and four buttons at its base. The brand name "Pakduk" is visible on the front.

4.2 Rear View and Connections

Figure 4.2: Rear view of the Boulder LED Moving Head Wash Light. This view highlights the cooling fan, Powercon IN/OUT connectors, 3-pin DMX IN/OUT connectors, a fuse holder, and the main power switch.

4.3 Side View

Figure 4.3: Side view of the Boulder LED Moving Head Wash Light, illustrating its compact profile and the articulation of the moving head mechanism.

4.4 Control Panel

The control panel, located at the base of the fixture, features a blue background LCD display and four control buttons: MENU, ENTER, UP, and DOWN. These buttons are used to navigate through the fixture's settings and select operating modes.

5. SETUP

5.1 Mounting

The fixture can be mounted in various orientations using the included Omega clamp. Always secure the fixture with the provided safety attachment cable to a suitable support structure, ensuring it can hold at least 10 times the weight of the fixture.

- Attach the Omega clamp to the bottom of the fixture using the 1/4 turn fastening points.
- Secure the safety cable to the designated safety attachment point on the fixture and to the truss or mounting structure.

5.2 Power Connection

Connect the included Powercon power cable to the Powercon IN connector on the rear of the fixture. Ensure the power source matches the specified input voltage (AC90-260V 50/60Hz). Use the Powercon OUT connector to daisy-chain power to other compatible fixtures if needed.

5.3 DMX Connection

For DMX control, connect a 3-pin DMX cable from your DMX controller's output to the DMX IN connector on the fixture. To control multiple fixtures, connect the DMX OUT of the first fixture to the DMX IN of the next, forming a daisy chain. A DMX terminator is recommended for the last fixture in a long chain.

6. OPERATING INSTRUCTIONS

6.1 Control Modes

The Boulder LED Moving Head Wash Light supports several operating modes:

- **DMX512 Mode:** Allows precise control over all fixture functions via an external DMX controller. The fixture uses 14 DMX channels.
- **Master-Slave Mode:** Link multiple fixtures where one acts as the master, controlling the others (slaves).
- **Sound Activated Mode:** The fixture reacts to ambient sound, creating dynamic light shows.
- **Auto Operation Mode:** Pre-programmed internal shows run automatically.

6.2 LCD Display and Button Functions

Use the control panel buttons to navigate the menu and select settings:

- **MENU:** Access the main menu or go back to the previous menu level.
- **UP/DOWN:** Navigate through menu options or adjust parameter values.
- **ENTER:** Confirm a selection or save a setting.

6.3 Movement and Effects

- **Pan/Tilt:** The fixture offers 540°/630° pan and 270° tilt movement with 8/16 bit smooth and precise resolution. It includes scan position memory and auto repositioning after unexpected movement.
- **Color Mixing:** RGBW color mixing system allows for a wide spectrum of colors.
- **LED Effects:** Includes LED shutter, LED dimming, LED rainbow effect, macros effect, and strobe effect with 25 flashes per second and pulse effect.
- **Dimming:** General dimming and blackout for all four colors.

7. DMX CHANNEL MAP

The Boulder LED Moving Head Wash Light utilizes 14 DMX channels for comprehensive control. A detailed

DMX channel chart, outlining the function of each channel and its corresponding DMX values, is typically provided in a separate DMX reference guide or can be found on the manufacturer's website. Please refer to that document for specific DMX programming.

8. MAINTENANCE

- **Cleaning:** Regularly clean the lenses and exterior with a soft, lint-free cloth. Do not use abrasive cleaners.
- **Inspection:** Periodically check all cables, connectors, and mounting hardware for signs of wear or damage.
- **Storage:** When not in use, store the fixture in a dry, dust-free environment.
- **Fuse Replacement:** If the fixture does not power on, check and replace the fuse located near the power input if necessary. Always use a fuse of the correct type and rating.

9. TROUBLESHOOTING

Problem	Possible Cause	Solution
Fixture does not power on.	No power supply; Blown fuse; Damaged power cable.	Check power connection; Replace fuse; Inspect/replace power cable.
No DMX control.	Incorrect DMX address; Faulty DMX cable; DMX controller issue; No DMX terminator.	Verify DMX address; Test DMX cable; Check DMX controller; Add DMX terminator.
Fixture movement is erratic.	Interference; Mechanical obstruction; Software glitch.	Ensure clear path for movement; Power cycle the fixture; Check DMX signal quality.
Lights not responding in Master-Slave mode.	Incorrect mode setting; DMX cable issue between units.	Ensure master and slave units are set correctly; Check DMX connections.

10. SPECIFICATIONS

Light Source	108 x 3W RGBW LEDs
Lifespan	50,000 hours
Pan Movement	540° / 630° (8/16 bit)
Tilt Movement	270° (8/16 bit)
DMX Channels	14 Channels
Control Modes	DMX512, Master-Slave, Sound Activated, Auto Operation
Input Voltage	AC90-260V, 50/60Hz

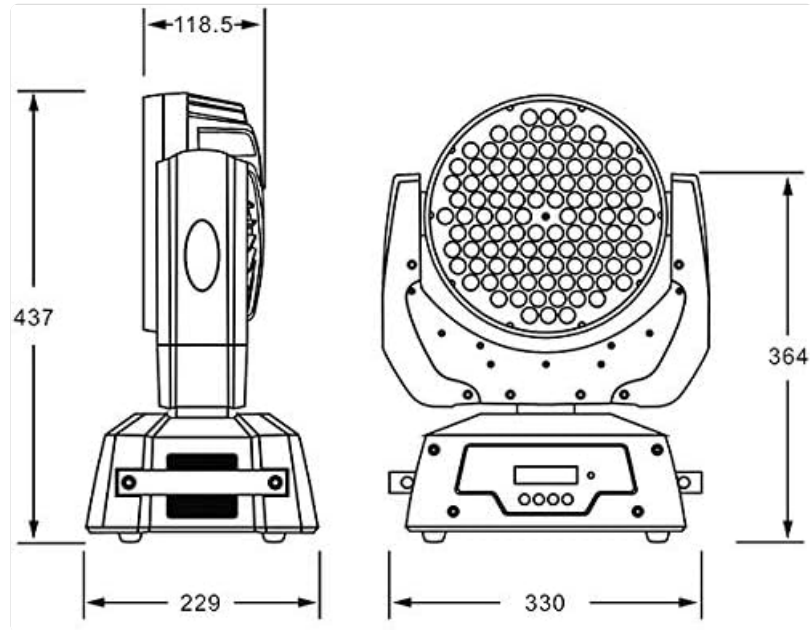| Power Consumption	350W
Ambient Temperature	-20°C ~ 45°C
IP Rating	IP20 (Indoor Use Only)
Connectors	Powercon IN/OUT, 3-Pin DMX IN/OUT
Dimensions (D*W*H)	229mm * 330mm * 437mm
Net Weight	8.86 kg

Figure 10.1: Dimensional drawing of the Boulder LED Moving Head Wash Light, showing height, width, and depth measurements in millimeters.
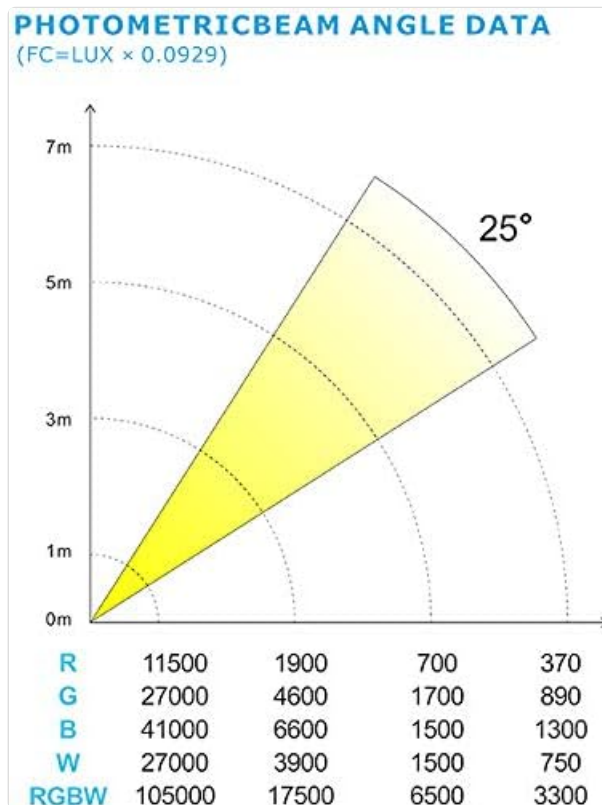

PHOTOMETRICBEAM ANGLE DATA
(FC=LUX × 0.0929)

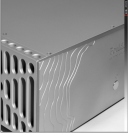|				
R	11500	1900	700	370
G	27000	4600	1700	890
B	41000	6600	1500	1300
W	27000	3900	1500	750
RGBW	105000	17500	6500	3300

11. WARRANTY INFORMATION

This Boulder LED Moving Head Wash Light is covered by a manufacturer's warranty against defects in materials and workmanship. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official Boulder website. Keep your purchase receipt as proof of purchase.

12. CUSTOMER SUPPORT

For technical assistance, troubleshooting, or service inquiries, please contact Boulder customer support. You can find contact information on the official Boulder website or through your retailer. When contacting support, please have your product model number (B07Q98FTK8) and purchase date ready.
Visit the Boulder Store on Amazon for more products and information.

Related Documents - B07Q98FTK8

	Boulder 812 DAC Preamplifier Quick Start Guide Get started quickly with the Boulder 812 DAC Preamplifier. This guide provides essential setup instructions, connection diagrams, and operational tips for your high-fidelity audio device.
	Boulder 1162 Stereo Power Amplifier User Manual and Specifications Comprehensive guide to the Boulder 1162 Stereo Power Amplifier, covering setup, connections, operation, technical specifications, and troubleshooting. Learn about Boulder Amplifiers' high-performance audio equipment.
	Boulder 1163 Stereo Power Amplifier: User Manual and Specifications Comprehensive user manual and technical specifications for the Boulder 1163 Stereo Power Amplifier, detailing setup, operation, troubleshooting, and performance data from Boulder Amplifiers, Inc.

	Boulder 861 Stereo Power Amplifier Owner's Manual Comprehensive owner's manual for the Boulder 861 Stereo Power Amplifier, detailing its features, setup, connections, operation, programming, technical specifications, and troubleshooting. Learn how to optimize your high-performance audio system.
	Boulder 812 DAC Preamplifier - High-Performance Audio Device Explore the versatile Boulder 812 DAC Preamplifier, offering exceptional digital-to-analog conversion, balanced preamplification, and high-fidelity headphone amplification. Features Roon endpoint compatibility and app control.
	Boulder 1151 Mono Power Amplifier: High-Performance Audio Specifications and Overview Explore the Boulder 1151 Mono Power Amplifier, featuring advanced Smart Current Output Stage, exceptional audio performance, and robust build quality. Detailed specifications and product information from Boulder Amplifiers.