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Betopper LF2405-1

Betopper LF2405-1 Moving Head DJ Light Instruction Manual

Model: LF2405-1 | Brand: Betopper

1. Introduction

Thank you for choosing the Betopper LF2405-1 Moving Head DJ Light. This professional stage lighting fixture is designed to deliver vibrant and dynamic lighting effects for various events, including parties, live shows, discos, and concerts. Featuring a powerful 120W COB LED and RGBW 4-in-1 lamp beads, it offers a wide range of colors and effects, including wash, beam, and strobe. This manual provides detailed instructions for safe operation, setup, and maintenance to ensure optimal performance and longevity of your device.



Figure 1.1: The Betopper LF2405-1 Moving Head DJ Light, showcasing its compact and robust design.

Key Features:

- **Colorful Stage Effects:** Combines a 120W dual color temperature COB light bead and 26 RGB 4-in-1 LED light beads for maximized brightness and strong beam penetration.
- **High Brightness & Versatile Control:** Engineered for superior illumination with 540° pan and 240° tilt rotating moving heads. Supports DMX512, Master-Slave, Auto, and Sound activated control modes.
- **Equipped with 120W RGBW LED & Unique Lens Design:** Offers endless color possibilities with RGBW mixing and a wider color temperature range (2800K - 8500K). Unique lens technology enhances brightness and color richness.
- **Long Lifespan:** Features a high-efficiency cooling system that intelligently adjusts temperature, extending the lifetime to up to 100,000 hours.
- **Widely Applicable:** Suitable for both indoor and outdoor parties, stage lighting, discos, bars, clubs, banquets, concerts, KTV, weddings, birthdays, and holiday events.

2. Safety Information

Please read and understand all safety instructions before installing, operating, or maintaining this product. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Electrical Safety:** Always connect the fixture to a grounded power outlet. Ensure the power supply voltage matches the specified voltage on the device. Disconnect power before any service or maintenance.
- **Heat and Ventilation:** This fixture generates heat. Ensure adequate ventilation around the unit. Do not block ventilation openings. Maintain a minimum distance of 0.5 meters (1.6 feet) from flammable materials.
- **Light Exposure:** Avoid direct eye exposure to the light source. The intense light output can cause eye damage.
- **Installation:** Install the fixture in a stable and secure location. Use appropriate mounting hardware and safety cables when suspending the unit. Ensure the mounting surface can support the weight of the fixture.
- **Moisture:** Do not expose the fixture to rain or moisture. This product is designed for dry locations unless otherwise specified.
- **Servicing:** Refer all servicing to qualified personnel. Do not attempt to repair the unit yourself.

3. Package Contents

Verify that all items listed below are included in your package. If any items are missing or damaged, please contact your retailer.

- Moving Stage Light x 1
- Power Cord x 1
- User's Manual x 1
- Installation Brackets x 1 (Quick Lock Pendant)



Figure 3.1: Illustration of the items included in the product package, including the light fixture, power cord, manual, and mounting brackets.

4. Setup

4.1 Physical Installation

The Betopper LF2405-1 can be installed in various orientations: floor-mounted, truss-mounted, or wall-mounted. Always ensure the fixture is securely fastened and use a safety cable when suspending it.

1. **Choose a Location:** Select a location that provides adequate ventilation and is away from heat sources or flammable materials.
2. **Mounting:** Attach the provided installation brackets to the fixture using the designated screw points. Securely mount the fixture to a truss, wall, or place it on a stable flat surface. If suspending, always attach a safety cable to the designated safety cable attachment point on the fixture and to the truss or mounting structure.

4.2 Connections

Connect the power and DMX cables as described below.



Figure 4.1: Rear panel of the Betopper LF2405-1, showing DMX input/output, power input/output, and fuse.

- **Power Connection:** Connect the supplied power cord to the POWER IN socket on the rear of the fixture. Plug the other end into a suitable grounded power outlet. The fixture also features a POWER OUT socket for daisy-chaining power to other compatible units.
- **DMX Connection (Optional):** For DMX control, connect a DMX cable from your DMX controller's output to the DMX IN socket on the fixture. If daisy-chaining multiple fixtures, connect the DMX OUT of the first fixture to the DMX IN of the next, and so on.

5. Operating Instructions

The Betopper LF2405-1 offers multiple control modes to suit various applications.

5.1 Control Modes

- **DMX512 Mode:** Allows precise control over all functions using a DMX controller. The fixture supports 23 DMX channels.
- **Master-Slave Mode:** Connect multiple fixtures, and one unit acts as the master, controlling the others.
- **Auto Mode:** The fixture runs through pre-programmed light shows automatically.
- **Sound Activated Mode:** The light effects react to sound and music detected by the built-in microphone.

5.2 Menu Operation

Use the MENU, ENTER, UP, and DOWN buttons on the control panel to navigate and select settings.



Figure 5.1: Front panel of the Betopper LF2405-1, showing the LED display and control buttons (MENU, ENTER, UP, DOWN).

- **MENU:** Press to cycle through main menu options.
- **UP/DOWN:** Use to adjust values or navigate sub-menus.
- **ENTER:** Confirm selection or enter a sub-menu.

5.3 Light Effects and Color Mixing

The LF2405-1 can produce a variety of dynamic lighting effects:

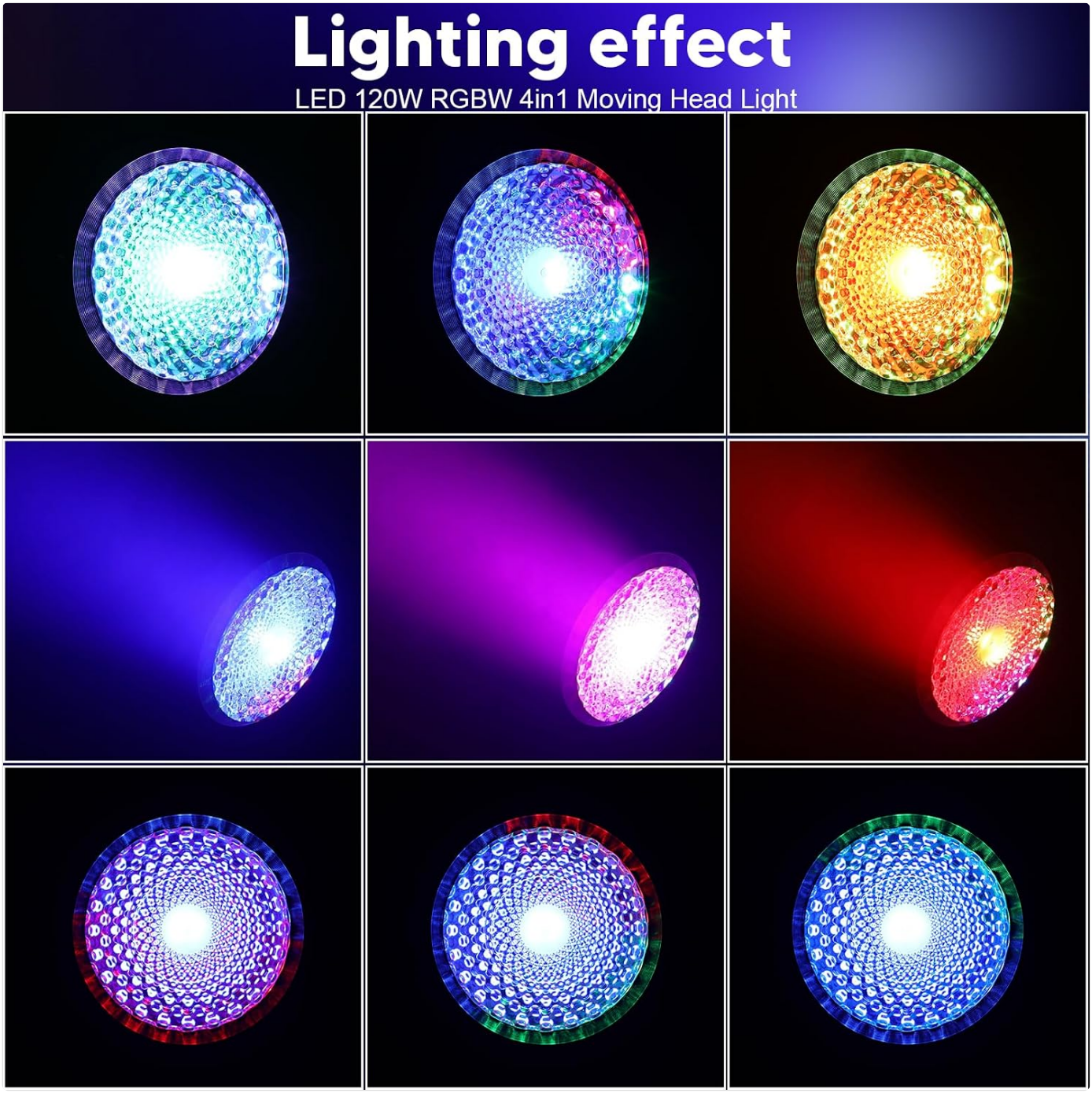


Figure 5.2: Examples of diverse lighting effects and color mixing capabilities of the fixture.

- **RGBW Color Mixing:** Achieve a full spectrum of colors by mixing Red, Green, Blue, and White LEDs.
- **Wash Effect:** Creates a soft, wide beam of light to illuminate a large area.
- **Beam Effect:** Produces sharp, concentrated light beams for dramatic aerial effects.
- **Strobe Effect:** Rapid flashing of light for energetic and dynamic visual impact.
- **Dimming:** Smooth 0-100% linear dimming for precise brightness control.



Figure 5.3: The fixture showcasing individual RGBW colors and their combinations.



Figure 5.4: Visual representation of different beam and wash effects produced by the light.

6. Maintenance

Regular maintenance ensures the longevity and optimal performance of your Betopper LF2405-1.

- **Cleaning:** Periodically clean the lens and exterior casing with a soft, lint-free cloth. Do not use abrasive cleaners or solvents. Ensure the fixture is powered off and cool before cleaning.
- **Ventilation:** Keep the ventilation openings clear of dust and debris to ensure proper airflow and heat dissipation. The intelligent speed control fan helps maintain optimal operating temperature.



Figure 6.1: The intelligent speed control fan system, designed for efficient heat dissipation and extended product life.

- **Storage:** When not in use for extended periods, store the fixture in a dry, dust-free environment, preferably in its original packaging or a protective case.
- **Inspection:** Regularly inspect power cords, DMX cables, and mounting hardware for any signs of wear or damage. Replace damaged components immediately.

7. Troubleshooting

This section addresses common issues you might encounter with your Betopper LF2405-1. If the problem persists, please contact customer support.

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
No power	Power cord not connected; No power from outlet; Blown fuse	Ensure power cord is securely connected; Check power outlet with another device; Replace fuse (refer to specifications for fuse type).
No light output	Fixture in blackout mode; DMX signal issue; Internal fault	Check menu settings to ensure not in blackout; Verify DMX connection and address; Contact support if problem persists.
Fixture not responding to DMX	Incorrect DMX address; Faulty DMX cable; DMX controller issue; Incorrect DMX mode selected	Set correct DMX address on fixture; Test DMX cable; Check DMX controller output; Ensure fixture is in DMX mode.
Movement erratic or limited	Mechanical obstruction; DMX signal interference; Calibration issue	Check for physical obstructions; Ensure DMX signal is clean; Perform a factory reset or calibration if available in menu.

8. Specifications

Technical specifications for the Betopper LF2405-1 Moving Head DJ Light.

Feature	Detail
Model Number	LF2405-1
Light Source	120W COB LED (Warm White/Cool White) + 26 RGBW 4-in-1 LEDs
Brightness	120 lumen (COB)
Color Temperature Range	2800K - 8500K
Control Modes	DMX512, Master-Slave, Auto, Sound Activated
DMX Channels	23 Channels
Pan Movement	540°
Tilt Movement	240°
Dimming	0-100% Linear (16bit)
Power Source	Corded Electric
Product Dimensions	9.15"L x 8.26"W x 11.81"H (23.24cm L x 20.98cm W x 29.99cm H)
Item Weight	8.68 pounds (3.94 kg)
Material	Powder Coated (Finish Type)
Lifespan	Up to 100,000 hours

9. Warranty and Support

Betopper products are designed for reliability and performance. For specific warranty details, please refer to the warranty card included with your product or visit the official Betopper website. Keep your purchase receipt as proof of purchase.

For technical support, troubleshooting assistance, or inquiries about replacement parts, please contact Betopper customer service through their official channels. You can also refer to the official User Manual (PDF) available online for more detailed information.

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