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Betopper USLPC008S-4

BETOPPER LED Par Light (Model USLPC008S-4) Instruction Manual

Comprehensive Guide for Setup, Operation, and Maintenance

1. Product Overview

The BETOPPER LED Par Light, Model USLPC008S-4, is a versatile stage lighting fixture equipped with 54 x 1.5W RGB 3-in-1 LEDs. It is designed to produce a wide range of colors and lighting effects suitable for various events and venues.

Key Features:

- **RGB 3-in-1 LED Technology:** Each LED bead combines red, green, and blue elements for seamless color mixing and a broad spectrum of colors.
- **Multiple Control Modes:** Supports Automatic, Sound-controlled, DMX512, and Master-Slave modes for flexible operation.
- **Dynamic Lighting Effects:** Offers changing, pulse, strobe, and fading effects, along with 0-100% dimming capability.
- **Easy Installation:** Includes brackets and screws for floor standing (uplight) or truss hanging (downlight) applications.

Package Contents:

- 1 x Stage Lights Led Par (Note: Product is sold in packs, this manual refers to a single unit's components)
- 2 x Brackets
- 2 x Screws
- 1 x User Manual (this document)



Image 1.1: Four BETOPPER LED Par Lights in operation, displaying blue light. These lights are designed for stage and event illumination.

2. Safety Information

Please read and understand all safety instructions before installing or operating the BETOPPER LED Par Light. Retain this manual for future reference.

- **Electrical Safety:** Ensure the power supply voltage matches the light's requirements (240 Volts). Always connect to a grounded outlet. Disconnect power before any maintenance or cleaning.
- **Heat Management:** The fixture generates heat during operation. Ensure adequate ventilation and do not block cooling vents. Maintain a safe distance from flammable materials.
- **Eye Protection:** Do not look directly into the light source when the fixture is operating, as intense light can cause eye damage.
- **Installation:** Securely mount the fixture using the provided brackets and appropriate hardware. Ensure the mounting surface or truss can support the weight of the light.

- **Environmental Conditions:** Do not expose the fixture to rain, moisture, or extreme temperatures. This product is intended for indoor use unless otherwise specified.
- **Maintenance:** Refer all servicing to qualified personnel. Do not attempt to repair the unit yourself.

3. Setup and Installation

Follow these steps to properly set up your BETOPPER LED Par Light.

3.1 Physical Installation

The fixture comes with two brackets for flexible mounting options:

- **Floor Standing (Uplight):** Attach the brackets to the sides of the light using the provided screws. Position the light on a stable, flat surface and adjust the angle as needed.
- **Truss Hanging (Downlight/Stage Lighting):** Securely attach the brackets to a compatible truss or mounting bar using appropriate clamps (not included). Ensure all connections are tight and secure to prevent accidental falls.



Image 3.1: Illustration of the easy installation process, showing how the brackets attach to the light and the internal components like 54*1.5WRGB LEDs and the cooling fan.

3.2 Electrical and DMX Connections

Locate the control panel on the rear of the fixture (refer to Image 3.2).

- **Power Connection:** Connect the power cable to the **POWER IN** port and then to a suitable electrical outlet.
- **DMX Connection (Optional):** For DMX control, connect a DMX cable from your DMX controller's output to the light's **DMX IN** port. If linking multiple lights, connect the **DMX OUT** of the first light to the **DMX IN** of the next, and so on.



Image 3.2: The rear control panel of the LED Par Light, highlighting the DMX IN/OUT, POWER IN ports, and control buttons (UP, DOWN, MENU, ENTER).

4. Operating Modes

The BETOPPER LED Par Light offers four primary control modes, accessible via the control panel buttons (MENU, UP, DOWN, ENTER).

4.1 Control Panel Navigation

- **MENU:** Press to cycle through the main menu options (e.g., DMX address, operating modes).
- **UP/DOWN:** Use to navigate within menu options or adjust parameter values.
- **ENTER:** Confirm selection or save changes.

4.2 Automatic Mode

In Automatic Mode, the light cycles through pre-programmed patterns and color changes without external input. Select this mode from the menu and press ENTER to activate.

4.3 Sound-Controlled Mode

The light reacts to ambient sound or music, changing patterns and colors in sync with the audio. Select Sound-controlled Mode from the menu and press ENTER. Adjust sensitivity if available in the menu.

4.4 DMX512 Mode

For professional control, connect the light to a DMX controller. Set the DMX address for each fixture using the control panel. Refer to your DMX controller's manual and the light's DMX channel chart (usually found in a separate DMX guide or appendix) for specific channel functions (e.g., Red, Green, Blue intensity, Strobe, Dimmer).

4.5 Master-Slave Mode

This mode allows multiple lights to synchronize their operation. Connect the DMX OUT of the 'Master' light to the DMX IN of the first 'Slave' light, and continue the chain. Set the Master light to any desired operating mode (e.g., Auto, Sound-controlled), and set the Slave lights to 'Slave' mode. The Slave lights will then mimic the Master's behavior.



Image 4.1: A visual representation of how to connect multiple BETOPPER LED Par Lights in a master-slave configuration using DMX

cables.

5. Features and Functions

The BETOPPER LED Par Light offers a range of features to enhance your lighting setup.

5.1 RGB 3-in-1 Color Mixing

Each of the 54 LEDs contains red, green, and blue chips, allowing for smooth and vibrant color blending. This technology enables the creation of a vast palette of colors beyond primary red, green, and blue.

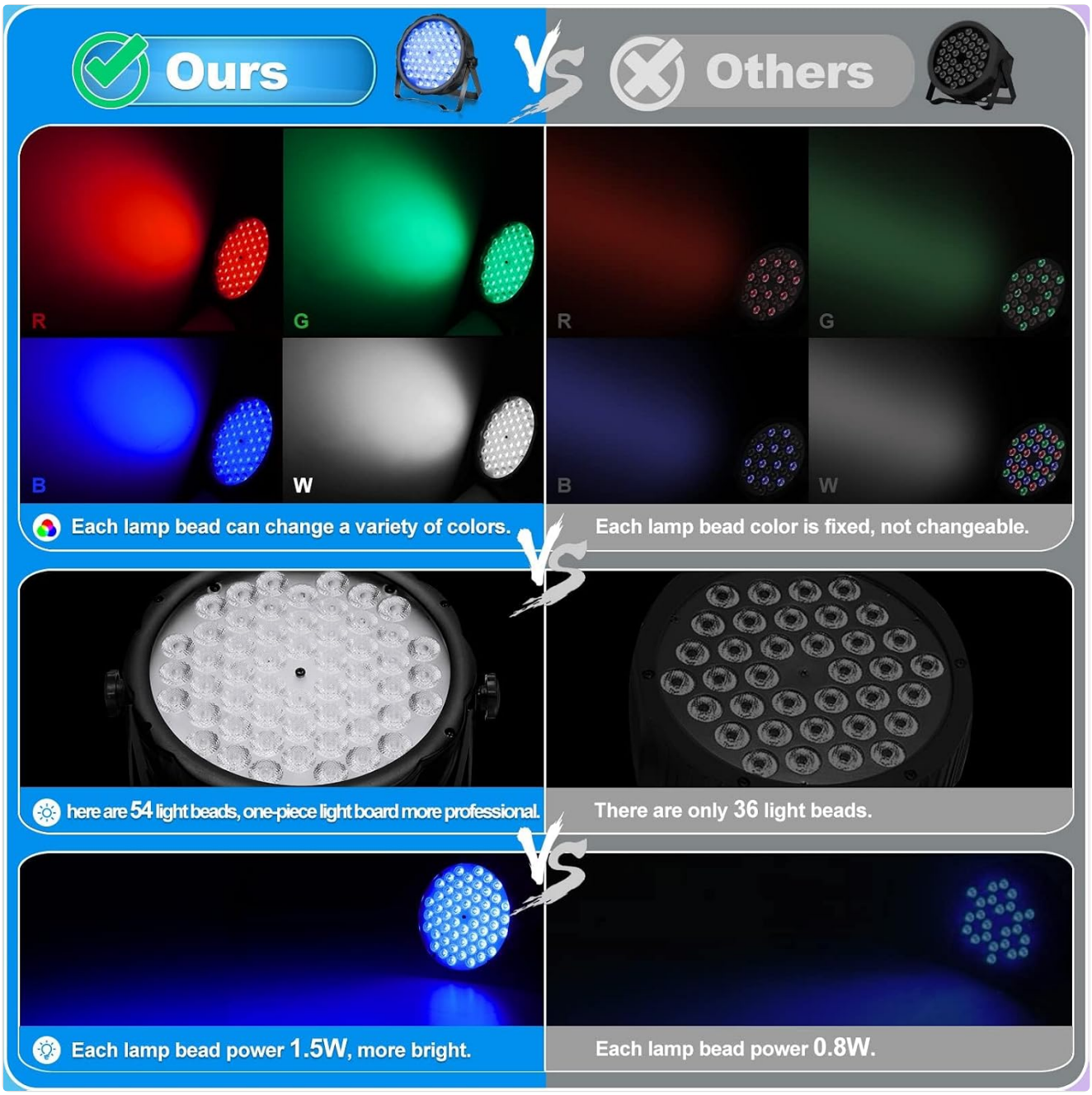


Image 5.1: A comparison illustrating the superior color blending capabilities of RGB 3-in-1 LEDs (left) compared to older single-color LED designs (right).

5.2 Dimming and Strobe Effects

The fixture supports 0-100% electronic dimming for precise brightness control. Various strobe and pulse effects are also available, allowing for dynamic visual accents.

5.3 Beam Angle

The light features a beam angle of 30 degrees, providing focused illumination suitable for washing stages or highlighting specific areas.



Image 5.2: A photometric diagram for the LPC006 model (similar to LPC008S), illustrating the illumination (lux) at different distances for Red, Green, Blue, and RGB colors with a 30-degree beam angle.

6. Maintenance

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

- **Cleaning:** Periodically clean the lens and exterior casing with a soft, lint-free cloth. For stubborn dirt, use a mild, non-abrasive cleaner. Ensure the fixture is unplugged and completely cool before cleaning.
- **Fan and Vents:** Keep the cooling fan and ventilation openings free from dust and debris to prevent overheating. Use compressed air to gently clear any blockages.
- **Cable Inspection:** Regularly inspect power and DMX cables for any signs of damage, fraying, or loose connections. Replace damaged cables immediately.

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

7. Troubleshooting

This section addresses common issues you might encounter with your BETOPPER LED Par Light.

Problem	Possible Cause	Solution
Light does not power on	No power supply; Faulty cable; Internal issue	Check power connection and outlet. Test with a different power cable. If problem persists, contact support.
No DMX control	Incorrect DMX address; Faulty DMX cable; Incorrect DMX mode; DMX controller issue	Verify DMX address setting. Check DMX cable connections. Ensure light is in DMX mode. Test DMX controller.
Light is not responding to sound	Incorrect mode; Low sound sensitivity	Ensure light is set to Sound-controlled Mode. Adjust sound sensitivity settings if available. Increase audio volume.
Fan noise is loud	Normal operation; Dust in fan	Some fan noise is normal for cooling. Clean fan and vents if excessive dust is present. Ensure adequate ventilation.
Colors are not accurate	DMX channel settings; Internal calibration	Check DMX channel values for RGB. If in auto mode, cycle through presets.

8. Specifications

Detailed technical specifications for the BETOPPER LED Par Light, Model USLPC008S-4.

Specification	Value
Model Number	USLPC008S-4
Light Source Type	Light Emitting Diode (LED)
Number of Light Sources	54
LED Wattage	1.5W per LED (RGB 3-in-1)
Total Wattage	81 Watts (Max 90 Watts)
Brightness	2835 lumen
Voltage	240 Volts
Color Temperature	2900 Kelvin
Color Rendering Index (CRI)	95
Beam Angle	30 Degrees
Control Modes	Automatic, Sound-controlled, DMX512, Master-Slave

Specification	Value
Material	Acrylonitrile Butadiene Styrene (ABS)
Product Dimensions	8"L x 3"W x 8"H (216mm diameter, 68mm depth)
Item Weight	8.47 pounds (for 4-pack, individual unit weight not specified)
UPC	788609388353

9. Warranty and Support

BETOPPER products are manufactured to high-quality standards. For information regarding warranty coverage, please refer to the product packaging or the official BETOPPER website. If you encounter any issues or require technical assistance, please contact BETOPPER customer support through their official channels or the retailer from whom the product was purchased.

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