Betopper LS10

BETOPPER LS10 Stage Lights User Manual

Model: LS10 | Brand: Betopper

Introduction

Thank you for choosing the BETOPPER LS10 Stage Lights. This 36x3W LED Wash RGBW Moving Head light is designed for professional stage, DJ, bar, KTV, disco, and party applications. It offers versatile control options including DMX, Sound Activated, Auto, and Master-Slave modes, providing dynamic lighting effects for various events. Please read this manual thoroughly before operation to ensure safe and optimal performance.

Safety Information

To prevent electric shock or fire, and to ensure safe operation, please observe the following precautions:

- Ensure the power supply voltage matches the specified voltage for the unit.
- Always connect the unit to a grounded circuit to avoid the risk of electrocution.
- Do not open the housing. There are no user-serviceable parts inside. Refer all servicing to qualified personnel.
- Avoid direct eye exposure to the light source.
- Keep the unit away from rain, moisture, and extreme temperatures.
- Ensure proper ventilation around the unit to prevent overheating. Do not block ventilation openings.
- Disconnect power before cleaning or performing any maintenance.
- Mount the fixture securely using appropriate clamps and safety cables.

What's in the Box

Upon opening the package, please verify that all items are present and in good condition:

- BETOPPER LS10 Stage Light Unit
- Power Cable
- Installation Brackets
- Installation Screws

- User Manual (this document)

Product Overview and Features

The BETOPPER LS10 is a powerful moving head light designed for dynamic stage illumination. Key features include:

- **36x3W RGBW LEDs:** Comprising 8 red, 10 green, 10 blue, and 8 white LEDs for vibrant color mixing and bright output.
- **High-Speed Moving Head:** Equipped with super-fast servo motors for precise and rapid 540° pan and 270° tilt movements.
- **Multiple Control Modes:** Supports Auto, Sound Activated, DMX (9/16 channels), and Master-Slave operation.
- **Long Lifespan:** LEDs rated for 50,000 hours, ensuring extended operational life.
- **Efficient Cooling:** Built-in cooling fan for optimal heat dissipation, allowing operation in -20°C to 40°C environments.



Figure 1: Front view of the BETOPPER LS10 Stage Light, showcasing the LED array and control panel.



Figure 2: Diagram illustrating the 540° pan and 180° tilt (note: product description states 270° tilt) movement capabilities of the light head.

Setup

Mounting the Unit

The BETOPPER LS10 can be floor-mounted or truss-mounted using the included brackets. Always ensure the mounting surface or truss is capable of supporting the weight of the fixture and any additional equipment.

1. Attach the provided installation brackets to the sides of the light unit using the included screws. Ensure they are securely fastened.
2. For truss mounting, use appropriate clamps (not included) to secure the brackets to the truss. Always use a safety cable (not included) as a secondary attachment to prevent accidental drops.
3. For floor mounting, ensure the unit is placed on a stable, level surface where it will not be easily knocked over.

Power Connection

Connect the supplied power cable to the "POWER IN" port on the rear of the unit and then to a suitable grounded power outlet (230 Volts). The unit also features a "POWER OUT" port 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" port on the first light unit. For multiple units, daisy-chain them by connecting the "DMX OUT" of the first unit to the "DMX IN" of the next, and so on. Ensure the last unit in the chain has a DMX terminator connected to its "DMX OUT" port for stable signal transmission.



Figure 3: Rear view of the BETOPPER LS10, showing the control panel with display and buttons, along with Power In, Power Out, and DMX In/Out ports.

Operating Modes

The BETOPPER LS10 offers several operating modes, selectable via the control panel on the unit's base.

Control Panel Navigation

Use the following buttons to navigate the menu and select modes:

MENU: Enters the menu or goes back to the previous level.

UP/DOWN (▲/▼): Navigates through menu options or adjusts values.

ENTER: Confirms selection or enters a sub-menu.

Mode Selection

1. **Auto Mode:** The light will run through pre-programmed sequences automatically. Select "Auto" from the main menu.

2. **Sound Activated Mode:** The light will react to ambient sound. Select "Sound" from the main menu. Adjust sensitivity if available.
3. **DMX Mode:** For professional control via a DMX controller.
    - Select "DMX" from the main menu.
    - Set the DMX address for the unit. Each unit in a DMX chain requires a unique address.
    - The LS10 supports 9-channel and 16-channel DMX modes. Refer to the DMX Channel Chart below for specific functions.
4. **Master-Slave Mode:** Connect multiple units where one acts as the master and others as slaves.
    - Set the first unit to "Master" mode (e.g., Auto or Sound mode).
    - Set subsequent units to "Slave" mode.
    - Connect units via DMX cables (DMX Out to DMX In). The slave units will mirror the master unit's behavior.

DMX Channel Chart (Example for 16-Channel Mode)

Channel	Function	Value Range	Description
1	Pan	0-255	0-540° Pan movement
2	Pan Fine	0-255	Fine adjustment for Pan
3	Tilt	0-255	0-270° Tilt movement
4	Tilt Fine	0-255	Fine adjustment for Tilt
5	Pan/Tilt Speed	0-255	Speed of Pan/Tilt movement (Fast to Slow)
6	Dimmer	0-255	Overall intensity (0% to 100%)
7	Strobe	0-255	Strobe effect (Slow to Fast)
8	Red LED	0-255	Red intensity (0% to 100%)
9	Green LED	0-255	Green intensity (0% to 100%)
10	Blue LED	0-255	Blue intensity (0% to 100%)
11	White LED	0-255	White intensity (0% to 100%)
12	Color Macro	0-255	Pre-programmed color combinations
13	Color Speed	0-255	Speed of color changes
14	Program Select	0-255	Select built-in programs
15	Program Speed	0-255	Speed of built-in programs
16	Reset/Special Functions	0-255	Fixture reset or other special functions



Figure 4: The BETOPPER LS10 producing dynamic lighting effects on a stage, demonstrating its versatility.

Maintenance

Regular maintenance ensures the longevity and optimal performance of your BETOPPER LS10 Stage Light.

- **Cleaning:** Periodically clean the lens and housing with a soft, lint-free cloth. For stubborn dirt, use a mild glass cleaner. Ensure the unit is powered off and unplugged before cleaning.
- **Ventilation:** Ensure the ventilation openings are free from dust and debris. Use compressed air to clear any blockages.
- **Cable Inspection:** Regularly inspect power and DMX cables for any signs of damage (fraying, cuts). Replace damaged cables immediately.
- **Storage:** When not in use, store the unit in a dry, dust-free environment, preferably in its original packaging or a padded case.

Troubleshooting

If you encounter issues with your BETOPPER LS10, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No power / Unit does not turn on	No power from outlet; Damaged power cable; Unit fuse blown	Check power outlet; Replace power cable; Consult qualified technician for fuse replacement.
No DMX control / Erratic behavior in DMX mode	Incorrect DMX address; Faulty DMX cable; Missing DMX terminator; Incorrect DMX mode selected	Verify DMX address; Check/replace DMX cables; Add DMX terminator to last unit; Ensure DMX mode is selected on unit.
Light head not moving or moving incorrectly	Motor obstruction; Internal error; Incorrect DMX values	Check for physical obstructions; Power cycle the unit; Verify DMX channel values for Pan/Tilt.
Colors not displaying correctly	LED issue; Incorrect DMX values for RGBW channels	Power cycle the unit; Check DMX channel values for Red, Green, Blue, White.
Unit overheating	Blocked ventilation; Operating in high ambient temperature	Ensure ventilation openings are clear; Operate within specified temperature range (-20~40°C).

If the problem persists after trying these solutions, please contact Betopper customer support.

Specifications

Feature	Detail
Model	LS10
Light Source	36 x 3W RGBW LEDs (8R, 10G, 10B, 8W)
Beam Angle	15 Degrees
Pan Movement	540°
Tilt Movement	270°
Control Modes	Auto, Sound Activated, DMX (9/16 channels), Master-Slave
DMX Channels	9/16 Channels
Input Voltage	230 Volts
Power Source	Corded Electric
Material	Durable ABS
Color	Black
Item Weight	11.51 pounds (5.23 Kilograms)
Product Dimensions	12.5"L x 6.2"W x 9.8"H
Lifespan	50,000 hours (LEDs)

Feature	Detail
Working Environment	-20℃ to 40℃
Certifications	CE, FCC, RoHS

Warranty and Support

BETOPPER provides a manufacturer warranty for 180 days from the date of purchase for the LS10 Stage Light. Additionally, a 1-year warranty and lifetime professional technical support are offered.
For technical assistance, warranty claims, or any questions regarding your product, please contact Betopper customer service through their official channels or the retailer where the product was purchased. Please have your model number (LS10) and purchase date ready when contacting support.
You may also visit the official Betopper store for more information:BetopperDirect Store

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