Betopper LM70S

BETOPPER LM70S RGBW Mini Moving Head Stage Light User Manual

Model: LM70S

1. INTRODUCTION

Thank you for purchasing the BETOPPER LM70S RGBW Mini Moving Head Stage Light. This manual provides essential information for the safe operation, installation, and maintenance of your device. Please read it thoroughly before use and retain it for future reference.

2. SAFETY INFORMATION

- Always connect the device to a grounded power outlet.
- Ensure the voltage matches the device's requirements (230 Volts).
- Do not open the housing; there are no user-serviceable parts inside.
- Avoid direct eye exposure to the light source.
- Keep the device away from moisture, excessive heat, and flammable materials.
- Ensure proper ventilation to prevent overheating.
- Mount the device securely using appropriate hardware.

3. PRODUCT OVERVIEW

The BETOPPER LM70S is a compact and versatile RGBW 4-in-1 LED moving head stage light, designed for various event lighting applications. It features 7x8W LEDs, offering a wide range of colors and dynamic movement.

BETOPPER

LM70S

CONTROL PANEL

8888

DMX SIGNAL

NODEESC   UP   DOWN   ENTER

Figure 3.1: Front view of the BETOPPER LM70S Mini Moving Head Stage Light, showcasing its compact design and LED array.

3.1. Components

- RGBW 4-in-1 LEDs (7 units)

- Moving Head Yoke

- Base with Control Panel

- Power Input/Output

- DMX Input/Output

- Cooling Fan

3.2. What's in the Box

- BETOPPER LM70S Moving Head Light

- User Manual (this document)

- Installation Screws

- Installation Brackets

- Power Cable

Figure 3.2: Package contents including the light fixture, manual, mounting bracket, screws, and power cable.

4. SETUP AND INSTALLATION

4.1. Mounting

The LM70S can be mounted in various positions: floor-standing, truss-mounted, or wall-mounted. Always ensure the mounting surface or truss is capable of supporting the device's weight (approximately 1.93 kg / 4.25 lbs) and that all connections are secure.

1. Attach the provided installation brackets to the base of the light using the included screws.

2. Securely fasten the light to a truss or suitable surface using appropriate clamps (not included) or by screwing the brackets directly to a stable structure.

3. Ensure there is sufficient space around the fixture for ventilation.

Mounting Design

Figure 4.1: Illustration of the mounting design, showing the bracket attachment points on the base of the light.

4.2. Connections

Connect the power cable to the power input on the rear of the unit. For DMX control or Master-Slave operation, connect DMX cables to the DMX IN and DMX OUT ports.

4 Control Modes
DMX512 / Auto / Sound Activated / Master-Slave

CONTROL PANEL

MODE/ESC UP DOWN ENTER

DMX SIGNAL

Digital Display

Mode/Esc

Enter

Up

Down

Q.C. PASSED

Out Put

Fuse

Power

In Put

Figure 4.2: Detailed view of the control panel and rear connections, including Power In, Power Out, Fuse, DMX In, and DMX Out ports.

5. OPERATING MODES

The LM70S offers four primary operating modes, selectable via the control panel on the base of the unit:

- **Auto Mode:** The light runs through pre-programmed sequences automatically.
- **Sound Activated Mode:** The light reacts to ambient sound, changing patterns and movements in sync with music.
- **DMX Mode:** Allows external control of all functions (color, dimming, strobe, movement) via a DMX512 controller.
- **Master-Slave Mode:** Connect multiple LM70S units, where one unit acts as the master, controlling all other slave units to synchronize effects.

Figure 5.1: Visual representation of the four control modes: Auto, Sound Activated, DMX, and Master-Slave.

5.1. Control Panel Operation

The control panel features a digital display and four buttons: MODE/ESC, UP, DOWN, and ENTER. Use these buttons to navigate menus, select modes, and adjust settings.

- **MODE/ESC:** Cycles through menu options or exits the current menu.
- **UP/DOWN:** Navigates through options or adjusts parameter values.
- **ENTER:** Confirms selection or enters a submenu.

6. DMX CONTROL

The LM70S supports DMX512 protocol, allowing precise control over its functions. It operates with either 9 or 14 DMX channels.

6.1. DMX Addressing

Set the DMX start address using the control panel. Each fixture in a DMX chain requires a unique start address to receive its specific control signals.

6.2. DMX Channel Functions (Example for 9-channel mode)

Channel	Function	Value Range	Description
1	Pan Movement	0-255	0-540 degrees horizontal movement
2	Tilt Movement	0-255	0-180 degrees vertical movement
3	Pan/Tilt Speed	0-255	Adjusts speed of movement
4	Dimmer	0-255	0-100% brightness control
5	Strobe	0-255	Adjusts strobe speed (0=no strobe)
6	Red LED Intensity	0-255	0-100% Red output
7	Green LED Intensity	0-255	0-100% Green output
8	Blue LED Intensity	0-255	0-100% Blue output

Channel	Function	Value Range	Description
9	White LED Intensity	0-255	0-100% White output

Note: Refer to the specific DMX chart provided with your product for detailed 9-channel and 14-channel configurations.

Figure 6.1: Illustration of the X-axis (Pan 540°) and Y-axis (Tilt 180°) movement capabilities.

7. MAINTENANCE

7.1. Cleaning

- Regularly clean the lens and exterior with a soft, lint-free cloth.
- Do not use abrasive cleaners or solvents.

- Ensure the cooling fan and vents are free from dust and debris to maintain optimal heat dissipation.

Figure 7.1: View highlighting the built-in cooling fan and overall dimensions of the fixture.

7.2. Storage

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

8. TROUBLESHOOTING

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
No power	Power cable disconnected, blown fuse, no power from outlet.	Check power connections, replace fuse (if applicable), test outlet.
No DMX control	Incorrect DMX address, faulty DMX cable, DMX controller issue.	Verify DMX address, check cable connections, test with another DMX controller.
Light not moving	Motor locked, DMX signal issue, internal fault.	Check DMX settings, power cycle the unit. If problem persists, contact support.
Overheating	Blocked ventilation, prolonged use in high ambient temperature.	Ensure clear airflow around the unit, allow for cooling periods.

9. SPECIFICATIONS

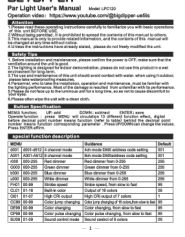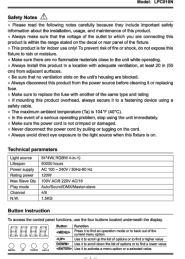| Feature	Detail
Model	LM70S
Light Source	7 x 8W RGBW 4-in-1 LEDs
Power Consumption	56 Watts (Total LED Output)
Voltage	230 Volts
Control Modes	Auto, Sound Activated, DMX512, Master-Slave
DMX Channels	9 / 14 Channels
Pan Movement	540 degrees
Tilt Movement	180 degrees
Beam Angle	36 degrees
Product Dimensions	8.07"L x 8.06"W x 10.63"H (approx. 205 x 205 x 270 mm)
Item Weight	1.93 Kilograms (4.25 pounds)
Material	Acrylonitrile Butadiene Styrene (ABS)
Lifespan	50,000 hours (LEDs)
UPC	761560008751

10. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the contact details provided with your purchase documentation or visit the official Betopper website. Keep your proof of purchase for warranty claims.

Manufacturer: BETOPPER
Brand: Betopper

Related Documents - LM70S

	[BETOPPER LM70SR Mini Moving Head User Manual: Technical Specs, DMX Control, and Operation](#) Official user manual for the BETOPPER LM70SR Mini Moving Head stage light. Details technical parameters, IR remote functions, DMX channel assignments (9-channel and 14-channel modes), and operational notes. Includes troubleshooting and setup guidance.
	[BETOPPER LB295 295W Beam Moving Head Light User Manual](#) Comprehensive user manual for the BETOPPER LB295 295W Beam moving head light, covering installation, operation, technical specifications, channel descriptions, and after-sales service.
	[BETOPPER LM0740 Mini 7x40W RGBW 4-in-1 Bee Eye LED Moving Head Light User Manual](#) User manual for the BETOPPER LM0740 Mini 7x40W RGBW 4-in-1 Bee Eye LED Moving Head Light, covering safety instructions, technical specifications, control panel operation, menu settings, channel modes, troubleshooting, and warranty information.
	[BETOPPER LB150 Moving-head Beam User Manual](#) Comprehensive user manual for the BETOPPER LB150 Moving-head Beam stage light. Learn about safe installation, operation, technical specifications, DMX control, troubleshooting, and maintenance.
	[Betopper LPC120 Par Light User Manual](#) Comprehensive user manual for the Betopper LPC120 Par Light, detailing operation, safety tips, button specifications, technical parameters, and DMX channel functions.
	[BETOPPER LPC010N User Manual: RGBW 4-in-1 PAR Light Operation Guide](#) Comprehensive user manual for the BETOPPER LPC010N 54x4W RGBW 4-in-1 High CRI PAR Light. Learn about safety, technical specifications, button functions, DMX control, and dimmer curves.

Documents - Betopper – LM70S
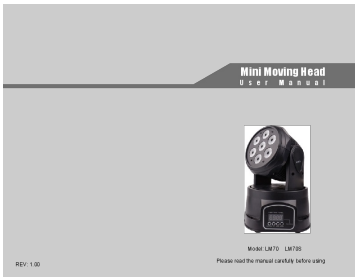
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REV: 1.00 Mini Moving Head User Manual Model: LM70 **LM70S** Please read the manual carefully before using Mini Moving Head User Manual ModelT**LM70S**K T**LM70S**P Attention 1Please read these operating instructions carefully to familiarize you with basic operations of this unit BEFORE USE. 2Without permitt...

lang:en score:32 filesize: 8.5 M page_count: 4 document date: 2019-04-18

Pioneer DJ rekordbox Lighting Mode Available Fixture List

A comprehensive list of available fixtures for Pioneer DJ's rekordbox software, specifically for its lighting mode. This guide details compatible lighting equipment for seamless integration and control.

lang:tl score:26 filesize: 2.81 M page_count: 584 document date: 2023-08-17

[pdf] User Manual Instructions

1 81 sailsoft oem Workgroup Téléchargement du manuel d utilisation Betopper 406 97012 025 LM70 LM70S DS v 1691568065 cdn shopify s files 0084 5230 9047 |||

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[pdf] User Manual

FIXTURE LIBRARY lists rekordbox free to System Requirements Manual lighting available fixtures cdn files 20221209131238 |||

rekordboxTM LIGHTING mode Available Fixture List Contents 1 Support Functions .... 30 2 Available Fixtures ....

lang:tl score:12 filesize: 2.66 M page_count: 543 document date: 2022-12-07

[rekordbox™ LIGHTING mode Available Fixture List - Pioneer DJ](#)
A comprehensive list of lighting fixtures compatible with Pioneer DJ's rekordbox™ software for Lighting mode. This guide details supported fixture types and provides an extensive catalog of available lighting equipment from various manufacturers.
lang:tl score:12 filesize: 2.75 M page_count: 568 document date: 2023-05-10

[Pioneer DJ rekordbox Lighting Fixture Compatibility Guide](#)
A comprehensive guide detailing lighting fixtures compatible with Pioneer DJ's rekordbox software, listing manufacturers and models for DMX-controlled stage and event lighting.
lang:tl score:12 filesize: 2.72 M page_count: 561 document date: 2023-03-24

[Pioneer DJ rekordbox Lighting Mode: Available Fixture List](#)
Discover compatible lighting fixtures for Pioneer DJ's rekordbox software. This guide details numerous brands and models, enabling seamless synchronization of lighting effects with music for enhanced DJ performances and events.
lang:tl score:12 filesize: 2.73 M page_count: 563 document date: 2023-04-05

Pioneer DJ rekordbox Lighting Fixture List
A comprehensive guide detailing lighting fixtures compatible with Pioneer DJ's rekordbox software for enhanced lighting control during DJ performances.
lang:tl score:12 filesize: 2.82 M page_count: 587 document date: 2023-08-30

Pioneer DJ rekordbox LIGHTING Mode Available Fixture List
Explore the comprehensive fixture library for Pioneer DJ's rekordbox software, detailing compatible lighting fixtures for the LIGHTING mode. Find brands and models from A to Z for enhanced DJ performances.
lang:tl score:12 filesize: 2.82 M page_count: 588 document date: 2023-09-06

Strand Lighting Palette OS v10 Fixture Library Release Notes
Strand Lighting's Palette OS v10 Fixture Library Release Notes provide a comprehensive catalog of supported moving light fixtures for their Palette and Light Palette series consoles. This essential document details fixture compatibility, including manufacturer, model name, DMX channels, and fixture IDs, serving as a critical reference for lighting designers and technicians.
lang:en score:10 filesize: 1.13 M page_count: 56 document date: 2023-07-07