BETOPPER LM0910N

BETOPPER LM0910N LED Spider Moving Head Light User Manual

Model: LM0910N | Brand: BETOPPER

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your BETOPPER LM0910N LED Spider Moving Head Light. Please read this manual thoroughly before installation, operation, or maintenance. Keep this manual for future reference.

2. SAFETY INFORMATION

- Ensure the product is connected to a power supply within the specified voltage range (AC 100–240V; 50–60Hz).

- Always disconnect the power supply before cleaning, maintenance, or when the unit is not in use.

- This product is designed for indoor use only. Avoid exposure to rain, moisture, or extreme temperatures.

- Ensure adequate ventilation around the unit to prevent overheating. Do not block ventilation openings.

- Avoid direct eye exposure to the light source.

- Installation should be performed by qualified personnel, ensuring secure mounting and proper electrical connections.

- Do not attempt to repair the unit yourself. Refer all servicing to qualified service personnel.

3. PACKAGE CONTENTS

Upon unpacking, ensure all items listed below are present and in good condition:

- 1 x LED Spider Moving Head Light (LM0910N)

- 1 x Power Cable

- 1 x Mounting Bracket

- 2 x Screws
- 1 x User Manual (English)

4. PRODUCT OVERVIEW

The BETOPPER LM0910N is a compact and lightweight LED Spider Moving Head Light designed for various entertainment venues. It features a unique triangular design with 9 individual 4-in-1 RGBW LEDs, offering a wide range of color mixing and dynamic beam effects. The unit supports infinite rotation on the X-axis and 90° movement on the Y-axis, allowing for versatile lighting patterns.

Figure 4.1: Various views of the BETOPPER LM0910N LED Spider Moving Head Light, illustrating its compact design and dimensions.

Figure 4.2: Detailed dimensions of the BETOPPER LM0910N LED Spider Moving Head Light.

5. SETUP

The LM0910N can be installed in various positions:

- **Hanging:** Use the provided mounting bracket to securely attach the light to a truss or ceiling. Ensure all clamps and safety cables are properly secured.

- **Wall Mounting:** The bracket can also be used to mount the light on a wall. Ensure the wall material can support the weight of the fixture.

- **Floor Placement:** The unit can be placed directly on a flat, stable surface. Ensure it is not easily knocked over.

After mounting, connect the power cable to a suitable power outlet. For DMX control, connect DMX cables from your DMX controller to the DMX IN port, and from DMX OUT to the next fixture in the chain (if applicable).

6. OPERATING MODES

The LM0910N offers four primary control modes:

1. **Automatic Mode:** The light operates through integrated pre-programmed sequences, changing effects automatically.

2. **Sound Activated Mode:** The light reacts to sound frequencies from music, creating dynamic effects synchronized with the audio.

3. **DMX512 Mode:** Allows professional control over all functions of the light using a DMX console. This mode offers precise control over color, movement, strobe, and dimming.

4. **Master-Slave Mode:** Connect multiple LM0910N units. Designate one unit as the master, and the others will follow its programming, moving and changing effects synchronously.
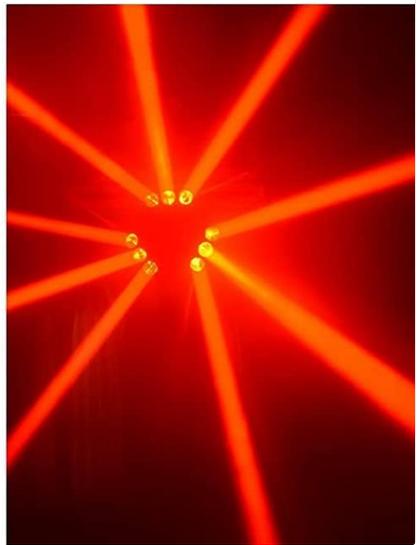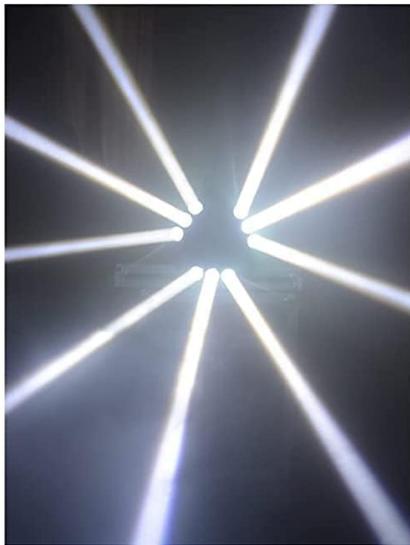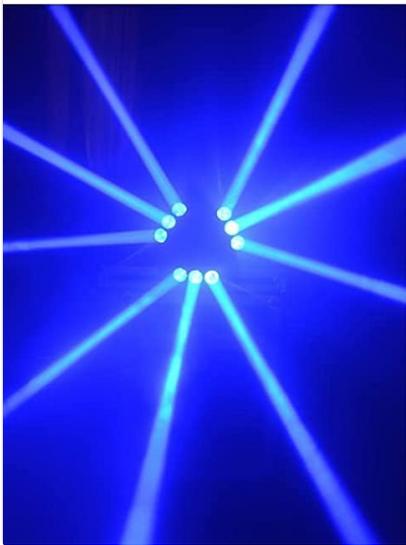
Figure 6.1: The light projecting green beams, demonstrating its dynamic capabilities.

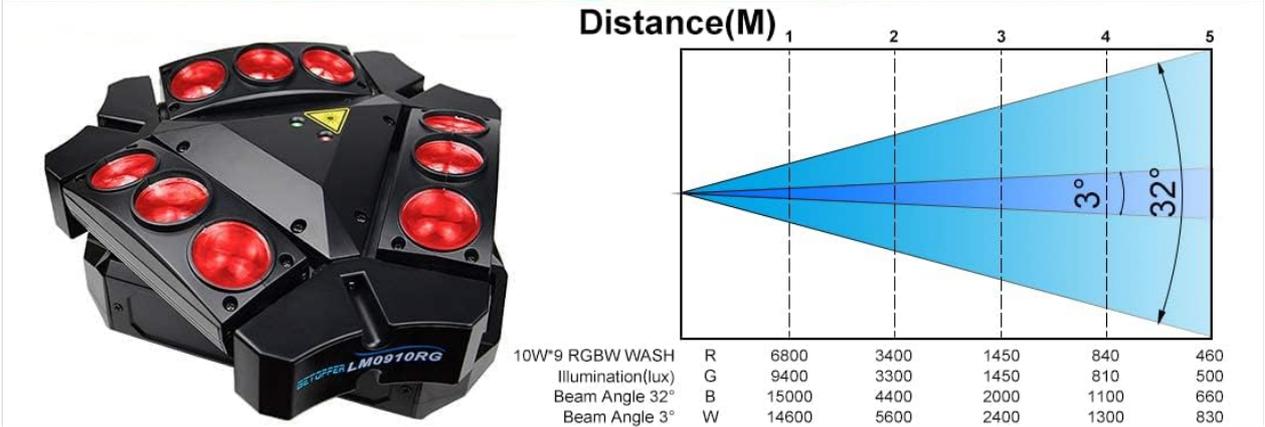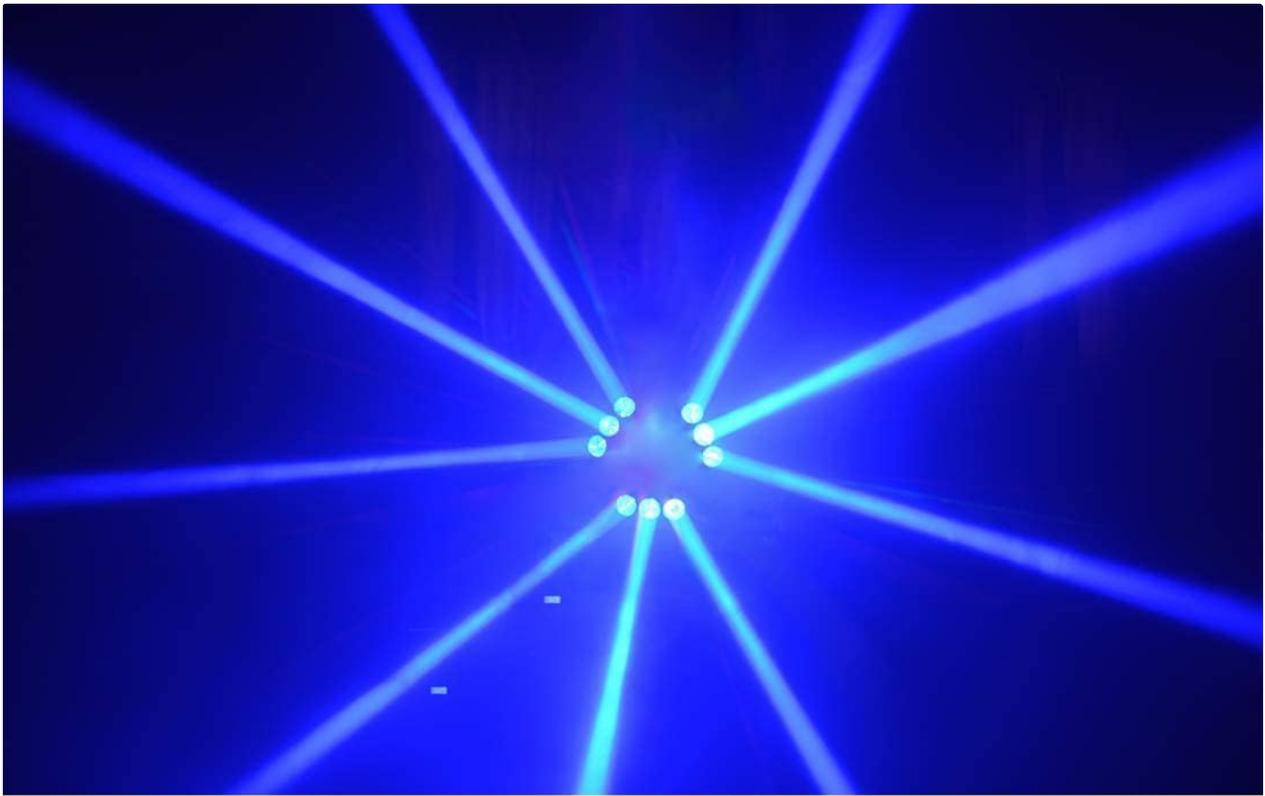| Distance(M)		1	2	3	4	5
10W*9 RGBW WASH	R	6800	3400	1450	840	460
Illumination(lux)	G	9400	3300	1450	810	500
Beam Angle 32°	B	15000	4400	2000	1100	660
Beam Angle 3°	W	14600	5600	2400	1300	830

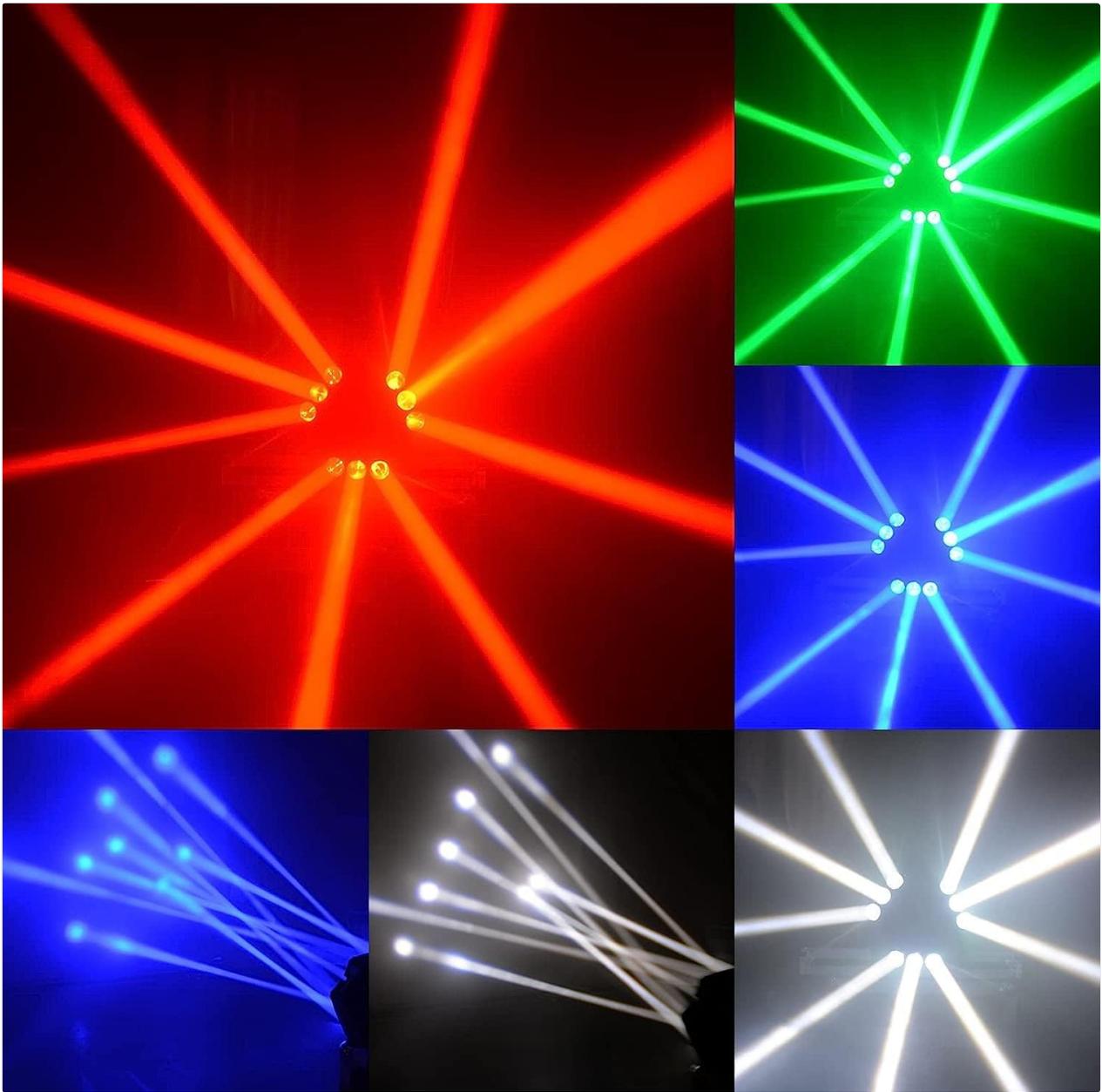Figure 6.2: The light projecting blue beams, showcasing color options.

Figure 6.3: The light projecting various colored beams simultaneously.

7. DMX CHANNEL MODES

The LM0910N supports two DMX channel modes for varying levels of control:

- **9-Channel Mode:** Provides basic control over essential functions.
- **11-Channel Mode:** Offers extended control, allowing for more intricate programming and effects.

Refer to the DMX chart in the separate DMX protocol document (if provided) for detailed channel assignments and values.

8. TECHNICAL SPECIFICATIONS

Feature	Specification
Light Source	9 x 10W RGBW LEDs

Feature	Specification
Rated Power	35W
Input Voltage	AC 100–240V; 50–60Hz
DMX Channel Modes	9/11 Channels
Control Modes	Auto, Sound Activated, DMX512, Master-Slave
X-Axis Scan Angle	Infinite Rotation
Y-Axis Scan Angle	90°
Dimming	0-100% Linear Dimming
Lifespan	5000 ~ 10000 hours
Product Dimensions	17.5 x 14.6 x 28.6 cm (6.9 x 5.7 x 11.3 inches)
Product Weight	3.5 kg (7.7 lbs)
Working Environment	Indoor 10–40 °C (50–105 °F)
Material	Plastic
Certifications	CE, RoHS, FCC

9. MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your light:

- **Cleaning:** Periodically clean the lenses and exterior housing with a soft, lint-free cloth. Do not use abrasive cleaners or solvents.
- **Inspection:** Regularly check power cables, DMX cables, and mounting hardware for any signs of wear, damage, or loose connections.
- **Ventilation:** Ensure ventilation openings are clear of dust and debris to prevent overheating.

10. TROUBLESHOOTING

If you encounter issues, refer to the following common problems and solutions:

- **No Power:**
    - Check if the power cable is securely connected to both the unit and the power outlet.
    - Verify the power outlet is functional.
    - Check the fuse (if accessible and replaceable).
- **No Light Output:**
    - Ensure the unit is receiving power.
    - In DMX mode, check DMX signal and channel settings. Ensure the dimmer channel is not set to 0.
    - In Auto or Sound mode, ensure the mode is correctly selected.
- **No Movement/Incorrect Movement:**

- In DMX mode, verify DMX signal and pan/tilt channel settings.
- Ensure the unit is not physically obstructed.
- Recalibrate the unit by power cycling it.

- **DMX Control Issues:**
  - Check DMX cable connections and ensure they are 3-pin XLR (or 5-pin if applicable).
  - Verify the DMX address of the fixture matches the address set on your controller.
  - Ensure the DMX controller is sending a valid signal.
  - Try a different DMX cable.

If problems persist after attempting these solutions, contact customer support.

11. WARRANTY AND SUPPORT

BETOPPER products are manufactured to high-quality standards. For warranty information, please refer to the warranty card included with your purchase or contact BETOPPER customer support directly. For technical assistance or service inquiries, please visit the official BETOPPER website or contact their customer service department.