**Big Dipper LM30A**

# Big Dipper LM30A Moving Head DJ Light Instruction Manual

Model: LM30A

## 1. Introduction

Thank you for choosing the Big Dipper LM30A Moving Head DJ Light. This manual provides essential information for the safe and efficient operation of your new stage lighting fixture. The LM30A is an 8x3W LED Spider Stage Light featuring RGBW colors, designed to produce dynamic lighting effects for various events.
Key features include:

- **8 Independent Beams:** Each LED moves independently with a 60-150 degree swing motor, creating captivating chase effects.
- **Dual Sweep Effect:** Features 4 monochrome LEDs on each side with 60-150 degree movement angles.
- **Multiple Operating Modes:** Auto Mode, Sound Activated Mode (with adjustable sensitivity), Master-Slave Mode, and DMX512 control.
- **Flexible Installation:** Includes a bracket for versatile placement on floors, T-bars, T-trusses, or ceilings.

## 2. Safety Information

**Please read and understand all safety instructions before installation and operation.**

- This device is for indoor use only. Do not expose to rain or moisture.
- Ensure the power supply matches the voltage requirements of the device (110 Volts AC).
- Always disconnect from the main power supply before performing any service or maintenance.
- Do not operate the device if the power cord is damaged.
- Avoid direct eye exposure to the light source.
- Ensure proper ventilation around the fixture to prevent overheating.
- Mount the device securely using the provided bracket.

## 3. Setup

The Big Dipper LM30A is designed for hassle-free setup. Follow these steps for initial installation:

1. **Unpacking:** Carefully remove the light fixture and all accessories from the packaging. Inspect for any damage

during transit.

2. **Mounting:** Use the included bracket to mount the light. The bracket allows for flexible placement on a floor, T-bar, T-truss, or ceiling. Ensure the mounting surface is stable and can support the weight of the fixture.
3. **Power Connection:** Connect the power cable to the 'Power In' port on the back of the unit. Plug the other end into a suitable power outlet.
4. **DMX Connection (Optional):** If using DMX control, connect a DMX cable from your DMX controller to the 'DMX In' port. For chaining multiple lights, connect from 'DMX Out' of the first unit to 'DMX In' of the next.




Figure 3.1: Rear and front view of the Big Dipper LM30A DJ light, highlighting power input, DMX ports, and the control panel.

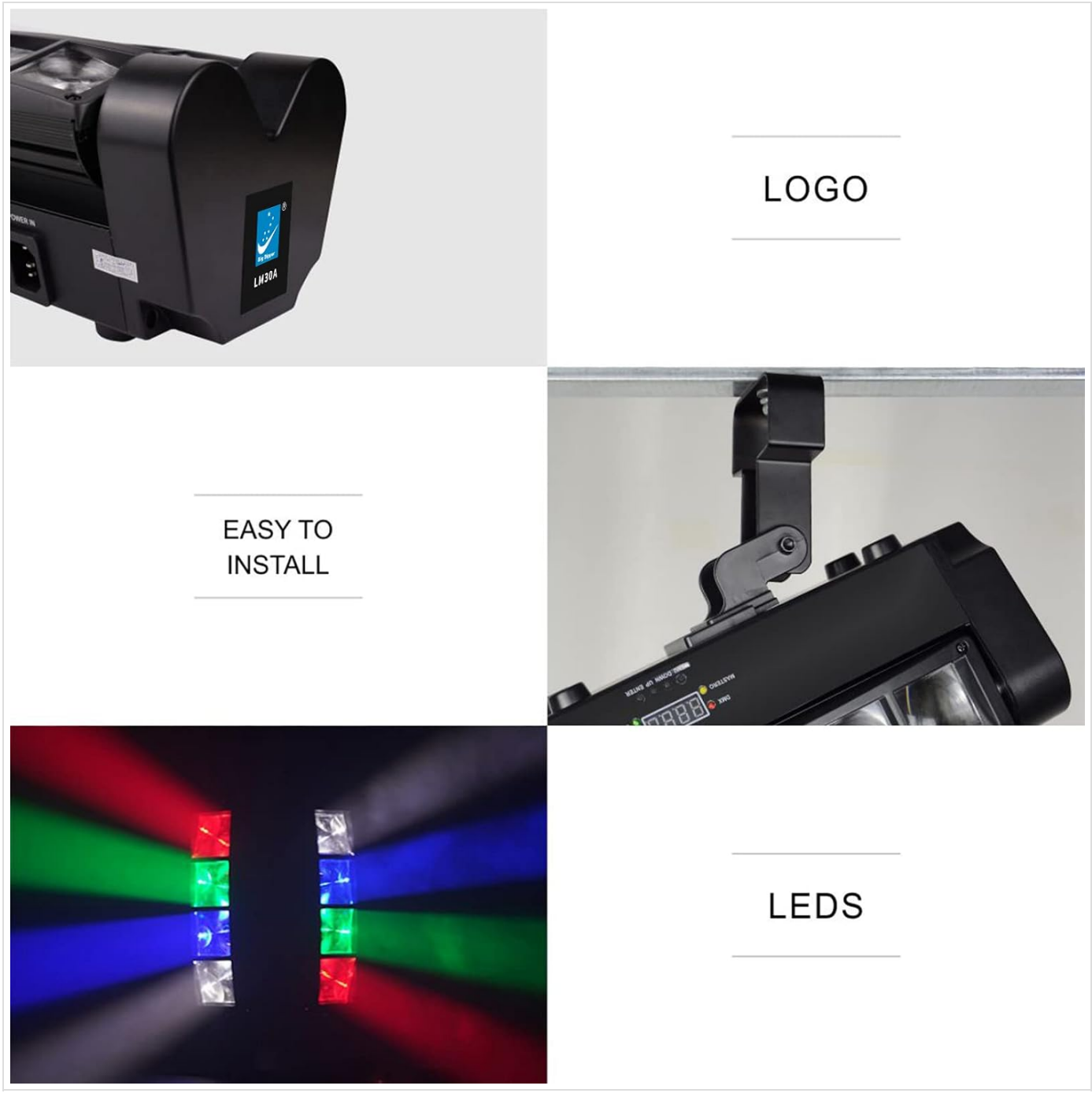



Figure 3.2: Detailed view of the Big Dipper LM30A, illustrating the logo, the versatile mounting bracket, and the individual RGBW LEDs.

## 4. Operating Modes

The LM30A offers four versatile operating modes, selectable via the 4-button control panel on the unit.

### 4.1. Auto Mode

In Auto Mode, the light fixture cycles through pre-programmed patterns and color changes automatically. This mode is ideal for quick setup and continuous light shows without external control.

### 4.2. Sound Activated Mode

The Sound Activated Mode utilizes a built-in HD microphone to synchronize light effects with music. The light will react to the beat and rhythm of the audio environment.
To adjust sensitivity:

1. Navigate to the sensitivity setting on the control panel (often labeled 'SenS').

2. Adjust the voice sensitivity from 0 to 100 using the UP/DOWN buttons.
3. Press ENTER to confirm the value.

### 4.3. Master-Slave Mode

This mode allows multiple LM30A units to operate in synchronization. Connect the 'DMX Out' of the master unit to the 'DMX In' of the first slave unit, and continue chaining for additional slave units. The master unit controls all connected slave units, ensuring a coordinated light show.

### 4.4. DMX512 Control Mode

For advanced control, the LM30A supports DMX512 protocol. This mode allows precise control over individual light parameters such as color, movement, and patterns using an external DMX controller. The fixture supports 7 or 13 DMX channels, depending on the selected DMX profile.
Refer to your DMX controller's manual for specific programming instructions. Ensure the DMX address is correctly set on each fixture.




Figure 4.1: The Big Dipper LM30A DJ light creating dynamic effects in a party environment, showcasing its wide beam movement.

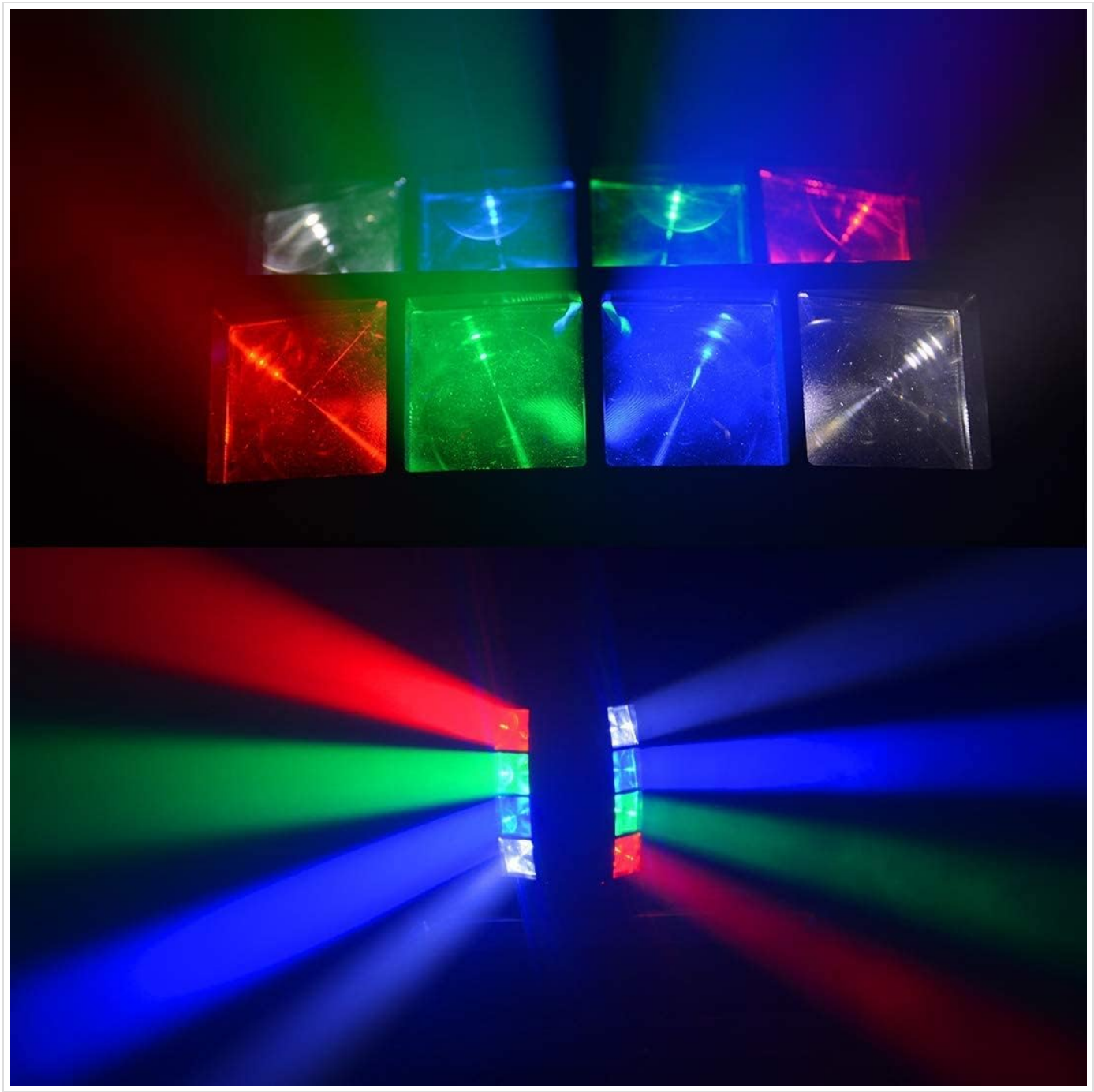


Figure 4.2: Detailed illustration of the LM30A's individual light beams in various colors.

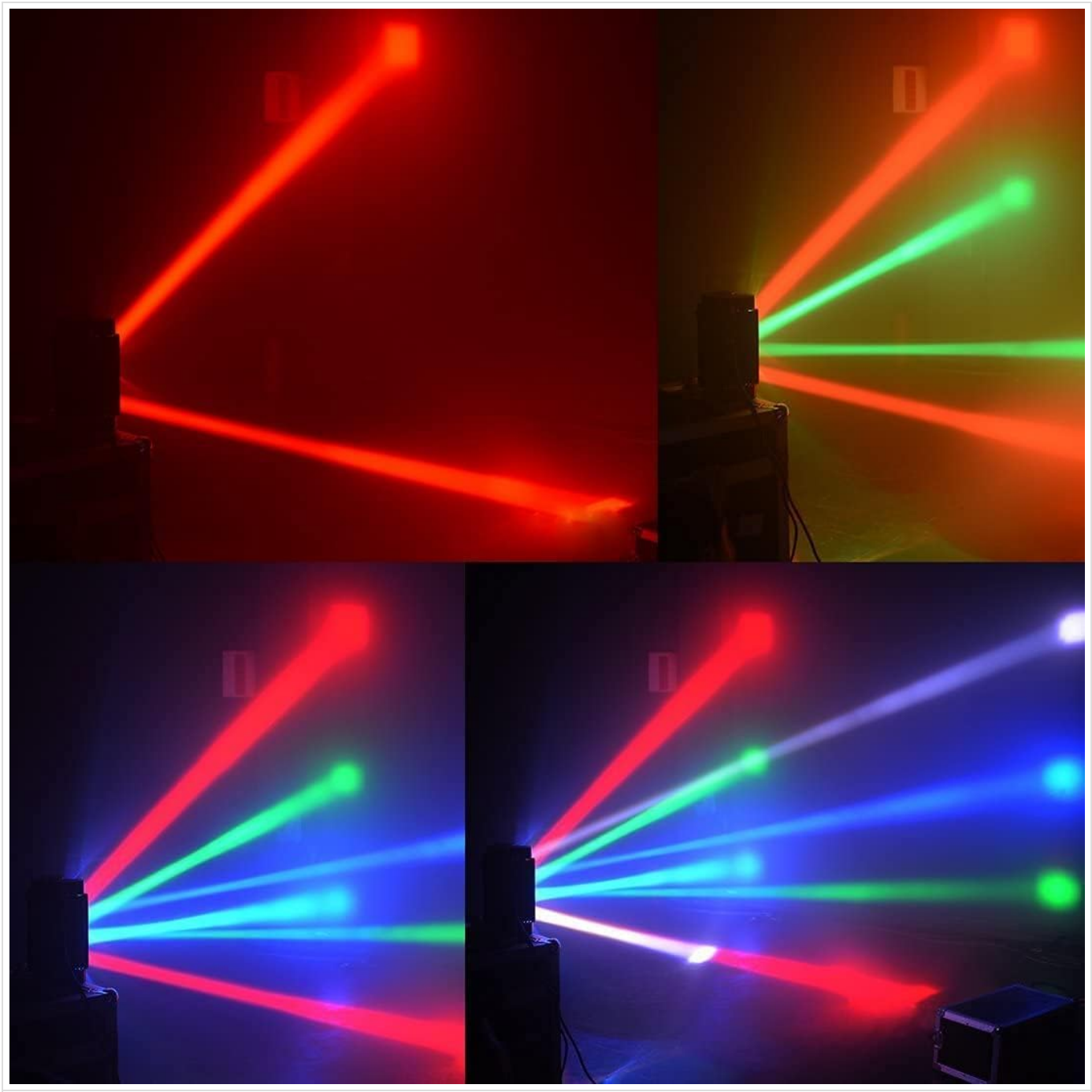


Figure 4.3: The LM30A producing a vibrant display of mixed colored light beams.

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Video 4.1: Demonstration of the Big Dipper Spider Moving Head DJ Light's various effects and movements in a stage setting.

## 5. Maintenance

Regular maintenance ensures the longevity and optimal performance of your Big Dipper LM30A DJ Light.

- **Cleaning:** Periodically clean the exterior of the fixture with a soft, dry cloth. For lenses, use a soft cloth and a mild glass cleaner. Ensure the device is powered off and unplugged before cleaning.
- **Inspection:** Regularly inspect power cables and DMX cables for any signs of wear or damage. Replace damaged cables immediately.
- **Ventilation:** Ensure that the ventilation openings are clear of dust and debris to prevent overheating.
- **Storage:** When not in use for extended periods, store the fixture in a dry, dust-free environment.

## 6. Troubleshooting

If you encounter issues with your Big Dipper LM30A, refer to the following common problems and solutions:

| Problem | Possible Cause | Solution |
|---|---|---|
| Light does not power on. | No power supply; faulty cable. | Check power connection; test with another power outlet; inspect power cable for damage. |
| No light output. | Fixture in standby mode; internal fault. | Check operating mode; if problem persists, contact support. |
| Light does not respond to DMX. | Incorrect DMX address; faulty DMX cable; incorrect DMX mode. | Verify DMX address setting; check DMX cable connections; ensure fixture is in DMX mode. |
| Sound Activated Mode not working. | Microphone sensitivity too low; no sound input. | Increase microphone sensitivity via the control panel; ensure sufficient sound is present near the microphone. |
| Lights are overheating. | Blocked ventilation. | Ensure all ventilation openings are clear and the fixture has adequate airflow. |

## 7. Specifications

Technical specifications for the Big Dipper LM30A Moving Head DJ Light:

| Feature | Detail |
|---|---|
| Model Number | LM30A |
| Light Source Type | Light Emitting Diode (LED) |
| LEDs | 8 x 3W RGBW Monochrome LEDs |
| Power Source | Corded Electric |
| Voltage | 110 Volts (AC) |
| Wattage | 24 Watts (Light Source), 45 Watts (Total) |
| Brightness | 1620 Lumens (Max Light Output) |
| Beam Angle | 150 Degrees |
| Movement Angle | 60-150 Degrees (Independent LED Swing) |
| DMX Channels | 7/13 Channels |
| Control Panel | 4-button with LED display |
| Lifespan | 5,000-10,000 hours (Average Life) |
| Material | Plastic (Housing), Polyvinyl Chloride (Shade) |
| Product Dimensions | 6.5"L x 6.5"W x 11.5"H |
| Item Weight | 7.17 pounds |

| Feature | Detail |
| --- | --- |
| Mounting Type | Rack Mount (with included bracket) |




Figure 7.1: Dimensional drawing of the Big Dipper LM30A fixture.

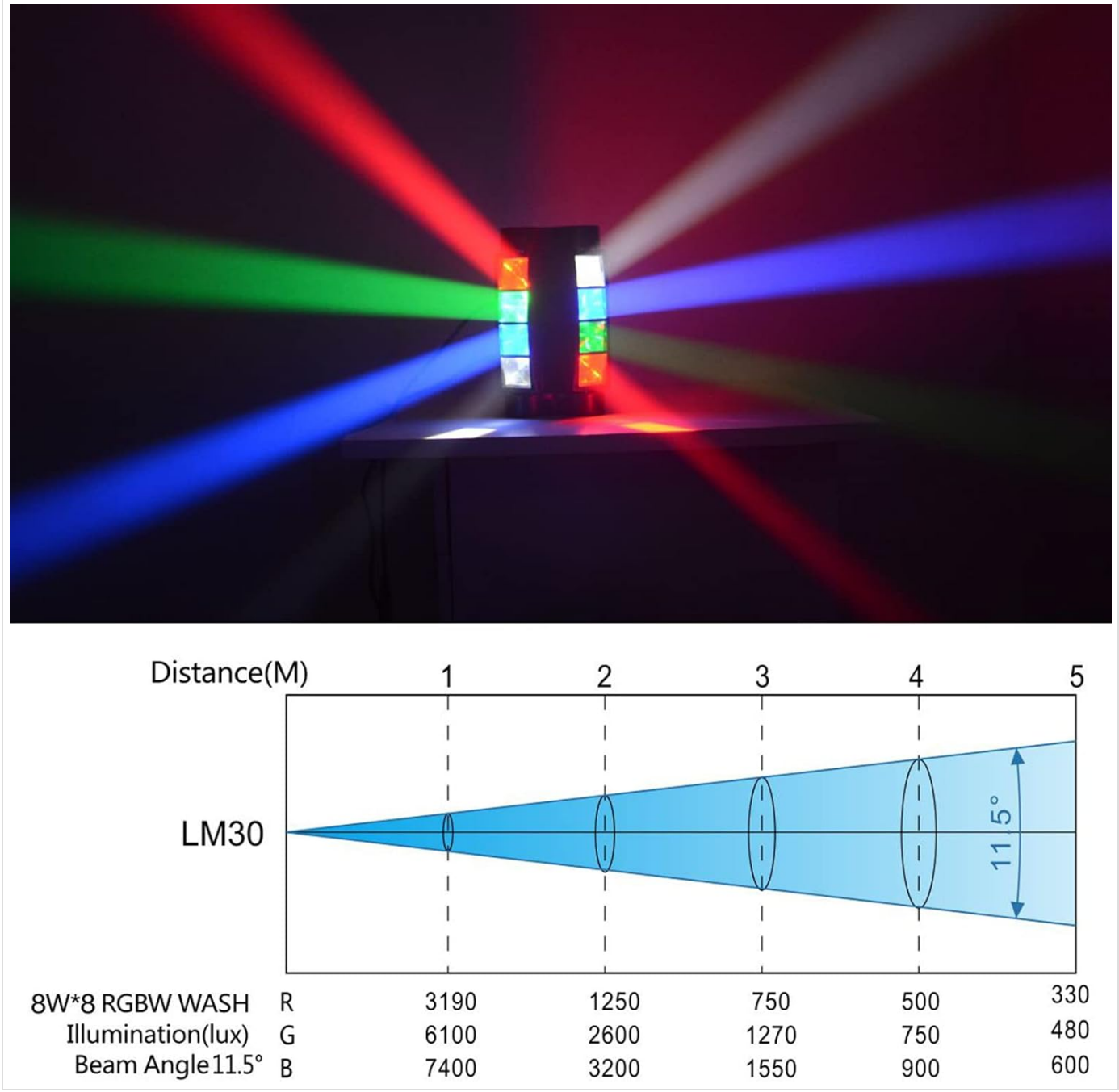



Figure 7.2: Illumination and beam angle chart for the LM30A at different distances.

## 8. Warranty and Support

For warranty information, product support, or service inquiries, please refer to the official Big Dipper brand store or contact the seller directly. Keep your purchase receipt as proof of purchase for any warranty claims.
Visit the Big Dipper Store on Amazon for more information.


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Example: How do I reset this device or fix this error?

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