

# 120W LED Beam Moving Head

## *User Manual*

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### 1. Introduction

Thank you for choosing the **120W LED Beam Moving Head**. This professional lighting fixture delivers a powerful, sharp beam designed for stage shows, clubs, concerts, and events that demand high-impact lighting. With advanced optics, multiple control modes, and precise pan/tilt movement, this fixture is built for both mobile entertainers and permanent installations.

Please read this manual carefully before use to ensure safe operation and optimal performance.

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### 2. Safety Instructions

- **Electrical Safety**
    - Use only the supplied power cable or approved replacements.
    - Ensure proper grounding before use.
    - Disconnect from mains power before cleaning or servicing.
    - Do not operate if power cable is frayed or damaged.
  - **Operational Safety**
    - Avoid looking directly into the LED beam.
    - Keep away from heat sources and flammable materials.
    - Always mount securely using clamps and safety cables.
    - Operate indoors in dry environments only.
  - **General Warnings**
    - Do not expose the fixture to rain or moisture.
    - Allow fixture to cool before handling.
    - Unauthorized repairs void warranty.
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### 3. Product Features

- **Light Source:** 120W high-power white LED
- **Beam Angle:** 2–3° sharp beam
- **Control Modes:**

- DMX512
    - Master/Slave
    - Auto programs
    - Sound Active
  - **DMX Channels:** 12 / 16 channels (selectable)
  - **Display:** LCD menu with 4-button control
  - **Pan/Tilt:** 540° pan, 270° tilt
  - **Cooling:** Advanced fan-cooled system
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## 4. Package Contents

- 1 × 120W LED Beam Moving Head
  - 1 × Power cable
  - 1 × Omega bracket with mounting screws
  - 1 × Safety cable
  - 1 × User manual
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## 5. Fixture Overview

- **Front:** High-power LED lens
  - **Sides:** Cooling vents and fans
  - **Rear Panel:**
    - Power switch
    - Power input (AC 100–240V)
    - DMX in/out (3-pin & 5-pin XLR)
    - Fuse holder
  - **Bottom:** Mounting points for brackets and safety cable
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## 6. Installation & Mounting

- Ensure the mounting surface supports 10× the fixture's weight.
  - Use two clamps when mounting overhead on truss.
  - Always attach a safety cable.
  - Maintain at least 1 ft (30 cm) clearance around ventilation.
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## 7. Control & Operation

### Menu Navigation

- **Buttons:** MODE, UP, DOWN, ENTER
- **Functions:**
  - DMX Address (001–512)
  - Channel Mode (12ch / 16ch)
  - Run Modes: Auto, Sound, Slave
  - Display invert/lock
  - Fixture reset
  - Pan/Tilt inversion

### DMX Channel Functions (16ch mode example)

1. Pan
  2. Pan Fine
  3. Tilt
  4. Tilt Fine
  5. Pan/Tilt Speed
  6. Dimmer
  7. Shutter/Strobe
  8. Color Wheel
  9. Gobo Wheel
  10. Prism On/Off
  11. Prism Rotation
  12. Frost/Focus
  13. Reset Functions
  14. Effect Macros
  15. Auto Programs
  16. Speed Control
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## 8. Operation Modes

- **DMX Mode:** Use a controller for full programming.
  - **Master/Slave:** Link multiple units; one fixture acts as the controller.
  - **Auto Mode:** Fixture runs built-in programs.
  - **Sound Mode:** Fixture reacts to music via built-in microphone.
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## 9. Maintenance

- Clean lens with soft lint-free cloth and glass cleaner.
  - Keep air vents and fans free of dust.
  - Avoid harsh chemicals.
  - Regularly check mounting hardware.
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## 10. Troubleshooting

Problem	Possible Cause	Solution
Fixture does not power on	No mains power / blown fuse	Check power, replace fuse
No DMX response	Wrong address / cable issue	Check address, test cable
Pan/Tilt not moving	Blocked movement / reset needed	Check obstructions, reset fixture
Beam flickers	Loose connection / overheating	Check power, allow cooling

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## 11. Technical Specifications

- **LED Source:** 120W White LED
  - **Beam Angle:** 2–3°
  - **Pan/Tilt:** 540° pan, 270° tilt
  - **Control Protocol:** DMX512, Auto, Sound, Master/Slave
  - **DMX Channels:** 12 / 16 selectable
  - **Power Supply:** AC 100–240V, 50/60Hz
  - **Power Consumption:** ~180W
  - **Dimensions:** (approx.) 13 × 10 × 16 in
  - **Weight:** (approx.) 27 lbs
  - **Fuse:** T3.15A 250V
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## 12. Warranty

This product includes a **1-year limited warranty** covering manufacturing defects. Damage due to misuse, modification, or improper installation is not covered.

