

XFALIGHTS MHL-90

XFALIGHTS Moving Head Light User Manual

Model: MHL-90

1. IMPORTANT SAFETY INFORMATION

Please read this manual carefully before operating the device. Keep this manual for future reference. Failure to follow these instructions may result in injury or damage to the product.

- **Electrical Safety:** Ensure the power supply voltage matches the device's requirements (120V AC). Always disconnect the power before cleaning, servicing, or moving the fixture.
- **Ventilation:** Ensure adequate ventilation around the fixture. Do not block ventilation openings. Maintain a minimum distance of 0.5 meters from walls or other objects.
- **Temperature:** Do not operate the device in environments exceeding 40°C (104°F).
- **Moisture:** This device is designed for indoor use only. Do not expose it to rain, moisture, or liquids.
- **Eye Safety:** Avoid direct eye exposure to the light source. The light output is very bright and can cause eye damage.
- **Mounting:** Always secure the fixture with a safety cable when mounting overhead. Ensure the mounting surface or truss can support the weight of the fixture.

2. PACKAGE CONTENTS

Carefully unpack your XFALIGHTS MHL-90 Moving Head Light and check that all items listed below are present and in good condition:

- Moving head light × 1
- Mounting bracket × 1
- Power cord × 1
- Screw × 2
- User manual × 1

3. PRODUCT OVERVIEW

The XFALIGHTS MHL-90 is a powerful and versatile 90W LED beam moving head light designed for various stage and event applications. It features RGBW 4-in-1 color mixing, multiple operational modes, and precise pan/tilt movement.



Figure 3.1: The XFALIGHTS MHL-90 Moving Head Light projecting a vibrant blue beam in a dynamic stage environment, illustrating its powerful output and application in live events.



Figure 3.2: Detailed dimensions of the MHL-90 Moving Head Light, indicating its compact size with a height of 11.02 inches, width of 8.66 inches, and depth of 7.48 inches. This image also highlights key features such as strobe speeds, smooth dimming, 15/13 DMX channels, and 120W power consumption.



Figure 3.3: An exploded view highlighting the main components and connectivity options of the MHL-90. This includes the powerful LED chip, 4-in-1 OSRAM LED, the exquisite body design, the 4-button menu control panel, DMX In/Out ports, and the power input.

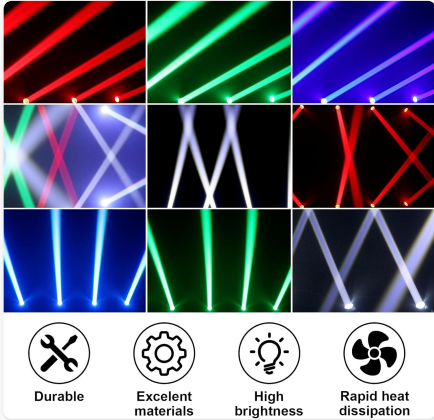


Figure 3.4: A collage showcasing the diverse light patterns and color combinations achievable with the MHL-90, including solid red, green, blue, and white beams, as well as various mixed color and patterned projections.



Figure 3.5: A visual representation of the MHL-90's narrow 2-degree beam angle, demonstrating its focused light projection over distances of 5, 7, 10, and 15 meters, highlighting its capability for sharp, defined

beams.



Figure 3.6: An illustration detailing the extensive movement capabilities of the MHL-90, featuring a 540-degree pan rotation and a 180-degree tilt movement, allowing for dynamic and wide-ranging light positioning.



Figure 3.7: Examples of the MHL-90's versatility, demonstrating its suitability for various environments including bars, parties, home use, and KTV rooms, showcasing its adaptability for different event types.

4. SETUP INSTRUCTIONS

Follow these steps to set up your Moving Head Light:

1. **Unpacking:** Carefully remove the fixture from its packaging. Retain the original packaging for future transport or storage.
2. **Mounting:** The fixture can be placed on a flat surface or mounted to a truss using the included mounting bracket and screws. Ensure the fixture is securely fastened and use a safety cable for overhead installations.
3. **Power Connection:** Connect the supplied power cord to the 'POWER IN' port on the back of the fixture and then to a suitable 120V AC power outlet.
4. **DMX Connection (Optional):** If using DMX control, connect a DMX cable from your DMX controller's output to the 'DMX IN' port on the fixture. For multiple fixtures, daisy-chain them by connecting the

'DMX OUT' of the first fixture to the 'DMX IN' of the next.

5. OPERATING MODES

The MHL-90 Moving Head Light offers several operational modes, selectable via the LCD display and 4-button menu on the front panel:

- **Auto Mode:** The fixture will run through pre-programmed light shows automatically. The speed of these shows may be adjustable.
- **Sound Activated Mode:** The light will react to ambient sound or music, changing patterns and colors in sync with the beat. Sensitivity may be adjustable.
- **DMX Mode:** This mode allows for professional control of all fixture functions (color, movement, strobe, dimming) using a DMX512 controller. The fixture supports 13 or 15 DMX channels.
- **Master/Slave Mode:** Connect multiple MHL-90 fixtures via DMX cables. Set one fixture as 'Master' and the others as 'Slave'. The slave units will then mirror the master unit's operation, ensuring synchronized light shows without a DMX controller.

Use the 'MENU', 'UP', 'DOWN', and 'ENTER' buttons on the control panel to navigate through the settings and select your desired mode.

6. DMX CHANNEL CHART

The MHL-90 Moving Head Light can be controlled via DMX512 protocol, utilizing either 13 or 15 channels. Below is a general overview of typical DMX channel assignments. Refer to the on-screen menu for specific channel functions and values.

Channel	Function	Value Range
CH1	Pan Movement	0-255 (0-540°)
CH2	Pan Fine	0-255
CH3	Tilt Movement	0-255 (0-180°)
CH4	Tilt Fine	0-255
CH5	Pan/Tilt Speed	0-255 (Fast to Slow)
CH6	Dimmer	0-255 (0-100%)
CH7	Strobe	0-255 (Off to Fast)
CH8	Red Color	0-255
CH9	Green Color	0-255
CH10	Blue Color	0-255
CH11	White Color	0-255
CH12	Color Macro / Effects	0-255

Channel	Function	Value Range
CH13	Program Selection	0-255 (Auto Programs)
CH14*	Sound Sensitivity	0-255
CH15*	Reset / Special Functions	0-255

*Channels 14 and 15 may be part of the 15-channel mode. Specific DMX values and functions can vary; consult the fixture's internal menu for precise details.

7. MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your Moving Head Light.

- **Cleaning:** Periodically clean the lens and exterior casing with a soft, lint-free cloth. For stubborn dirt, use a mild glass cleaner. Ensure the fixture is powered off and cool before cleaning.
- **Ventilation:** Keep the ventilation openings clear of dust and debris. Use compressed air to gently clear any blockages.
- **Inspection:** Regularly inspect power cables, DMX cables, and mounting hardware for any signs of wear, damage, or loose connections. Replace damaged components immediately.
- **Storage:** When not in use, store the fixture in a dry, cool place, preferably in its original packaging or a protective case, to prevent dust accumulation and physical damage.

8. TROUBLESHOOTING

If you encounter issues with your Moving Head Light, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No power / Light not turning on	No power from outlet; Loose power cable; Blown fuse	Check power outlet; Secure power cable connection; Check and replace fuse if necessary.
No light output (power on)	Dimmer channel at 0%; Internal fault	Increase dimmer value in DMX or auto mode; Contact support if issue persists.
Erratic movement / No movement	Incorrect DMX address; DMX signal issue; Motor calibration needed	Verify DMX address and cable connections; Try a different DMX cable; Perform a factory reset or motor calibration via the menu.
Light not responding to DMX	Incorrect DMX mode; Wrong DMX address; Faulty DMX cable/controller	Ensure fixture is in DMX mode; Set correct DMX address; Test with a different DMX cable or controller.
Sound mode not working	Microphone sensitivity too low; No sound input	Increase sound sensitivity via menu; Ensure sufficient sound is present near the fixture's microphone.

If the problem persists after attempting these solutions, please contact XFALIGHTS customer support for further assistance.

9. SPECIFICATIONS

Feature	Detail
Model Number	MHL-90
Light Source	90W LED (RGBW 4-in-1)
Beam Angle	2 Degrees
Pan Movement	540 Degrees
Tilt Movement	180 Degrees
Operational Modes	Auto, Sound Activated, DMX, Master/Slave
DMX Channels	13/15 Channels
Dimming	0-100% Mechanic Dimmer
Strobe	10 Flashes per second
Power Source	Corded Electric
Voltage	120 Volts (AC)
Wattage	90 Watts
Color Temperature	8000 Kelvin
Material	Plastic
Product Dimensions (L x W x H)	12.09 x 9.56 x 8.39 inches
Item Weight	7.94 Pounds

10. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or contact XFALIGHTS directly through their official website or the retailer where the product was purchased. Keep your proof of purchase for warranty claims.

Manufacturer: XFALIGHTS

Contact: Please visit the XFALIGHTS store on Amazon or their official website for customer service contact details.

