

## GdjRttk ZQ02621US

# GdjRttk 160W 3-Axis Moving Head Light

MODEL: ZQ02621US - INSTRUCTION MANUAL

## 1. Introduction

This manual provides essential information for the safe and effective operation of your GdjRttk 160W 3-Axis Moving Head Light. Please read this manual thoroughly before installation, operation, or maintenance to ensure proper usage and to prevent damage to the unit or injury to personnel. Keep this manual for future reference.

## 2. Safety Information

- Always connect the unit to a grounded power outlet.
- Ensure the voltage matches the power requirements specified on the unit.
- Do not open the housing; there are no user-serviceable parts inside. Refer all servicing to qualified personnel.
- Avoid direct eye exposure to the light source.
- Ensure adequate ventilation around the unit to prevent overheating.
- Mount the fixture securely using appropriate hardware and safety cables.
- Operate the unit within the specified temperature range (-20°C to 40°C).

## 3. Package Contents

Verify that all items listed below are included in your package:

- 1 x GdjRttk 160W Moving Head Light
- 1 x Power Cord
- 1 x Quick Lock Bracket
- 1 x Instruction Manual (this document)
- 1 x Safety Rope

# COMPACT DESIGN

## Packing List

- Power Cord \*1
- Moving Head Light \*1
- Quick Lock Bracket\*1
- Instruction Manual \*1
- Safety Rope \*1



Figure 3.1: Package contents including the moving head light and accessories.

## 4. Product Features

The GdjRttk 160W 3-Axis Moving Head Light is designed for dynamic stage lighting applications, offering a range of advanced features:

- **3-Axis Motion:** Features 540° horizontal (Pan), 320° vertical (Tilt), and infinite Z-axis rotation for comprehensive coverage.
- **Dynamic Multi-Effect Lighting:** Equipped with 7x 3W RGBW LED beams (2° narrow angle), 108 RGB LEDs for over 30 programmable chase effects, and red/green/blue starry sky effects. Includes golden strobe for enhanced visual impact.
- **Professional Control:** Supports DMX512 and RDM protocols with 19/25 channel modes. Features a 1.77-inch LCD screen and 4-button interface for easy navigation.
- **Control Modes:** Operates in Auto, Sound Activated, Master-Slave, and DMX modes.
- **Durable Construction:** Lightweight yet sturdy sheet metal and plastic hybrid structure with an IP20 rating.
- **Long LED Lifespan:** LEDs are rated for approximately 20,000 hours of operation.



Figure 4.1: Detailed view of the light head components.

Figure 4.2: Illustration of 3-axis rotation capabilities.

## 5. Setup

Follow these steps for initial setup:

1. **Unpacking:** Carefully remove the fixture from its packaging and inspect for any damage during transit.
2. **Mounting:** The fixture can be mounted on a truss (using the quick lock bracket) or placed on a flat, stable surface. Ensure the mounting location is secure and can support the weight of the fixture. Always use the provided safety rope as a secondary attachment.
3. **Power Connection:** Connect the power cord to the 'POWER IN' port on the rear of the unit, then plug it into a suitable 110V AC grounded power outlet.
4. **DMX Connection (Optional):** If using DMX control, connect a DMX cable from your DMX controller to the 'DMX IN' port. For multiple units, daisy-chain them using 'DMX OUT' to the next unit's 'DMX IN'.



Figure 5.1: Main product view for setup reference.

## 6. Operating Modes

The GdjRttk Moving Head Light offers several operating modes, selectable via the LCD display and buttons:

- **Auto Mode:** The fixture runs through pre-programmed light shows automatically.
- **Sound Activated Mode:** The light effects respond to ambient sound, ideal for parties and events.
- **Master-Slave Mode:** Connect multiple units via DMX cables. Set one unit as 'Master' and others as 'Slave' to synchronize their operation without a DMX controller.
- **DMX Mode:** Provides full control over all fixture parameters using an external DMX512 controller.



Figure 6.1: Light in operation, highlighting various control modes.

## 7. DMX Control

For professional control, connect the fixture to a DMX512 controller. The unit supports 19 or 25 DMX channels, allowing precise manipulation of pan, tilt, color, strobe, and effect parameters.

### 7.1. Control Panel Overview

The 1.77-inch LCD screen and four buttons (MENU, UP, DOWN, ENTER) allow for DMX address setting, mode selection, and parameter adjustments.



Figure 7.1: Control panel and rear connection ports.

## 7.2. DMX Channel Modes

Refer to the DMX chart in the full instruction manual for detailed channel assignments for both 19CH and 25CH modes. This chart will specify functions such as Pan, Tilt, Pan/Tilt Speed, Dimmer, Strobe, Color, Gobo, and various effect controls.

## 8. Maintenance

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

- **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 or damage. Replace damaged components immediately.
- **Ventilation:** Ensure cooling fans and ventilation openings are free from dust and debris to maintain proper airflow.

## 9. Troubleshooting

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

Problem	Possible Cause	Solution
No power	Power cable disconnected, faulty outlet, blown fuse	Check power connections, test outlet, replace fuse (refer to Figure 7.1 for fuse location).
No DMX control	Incorrect DMX address, faulty DMX cable, DMX controller issue	Verify DMX address, check DMX cable integrity, ensure DMX controller is functioning correctly.
Fixture not moving/responding	Mode setting incorrect, motor calibration issue	Check operating mode. If in DMX, ensure correct channels are being sent. Power cycle the unit.
Overheating	Blocked ventilation, prolonged use in high ambient temperature	Clear ventilation openings. Ensure adequate space around the unit. Reduce operating time if ambient temperature is high.

If problems persist, contact customer support for assistance.

## 10. Specifications

Feature	Specification
Model Number	ZQ02621US
Power Source	Corded Electric
Voltage	110 Volts (AC)
Light Source Wattage	160 Watts
Light Source Type	Light Emitting Diode (LED)
LED Lifespan	20,000 hours
Beam Angle	2 Degrees
Pan Rotation (X-axis)	540°
Tilt Rotation (Y-axis)	320°
Z-axis Rotation	Infinite
Control Protocols	DMX512, RDM
DMX Channels	19/25 Channels
Control Modes	Auto, Sound Activated, Master-Slave, DMX
Display	1.77-inch LCD screen with 4 buttons
Material	Sheet Metal/Plastic Hybrid
IP Rating	IP20
Product Dimensions	10.31"L x 11.68"W x 13.18"H
Item Weight	15.17 pounds
Operating Temperature	-20°C to 40°C

## 11. Warranty and Support

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