

Greluma ZL1107LUM

Greluma DC12-24V 15 LED Trailer Brake Light Bar

MODEL: ZL1107LUM

1. Introduction

Thank you for choosing the Greluma 15 LED Trailer Brake Light Bar. This manual provides essential information for the safe installation, operation, and maintenance of your new light bar. Please read these instructions carefully before use and retain them for future reference.

Package Contents:

- 1 x Greluma DC12-24V 15 LED Red Trailer Brake Light Bar

2. Safety Information

Always prioritize safety during installation and operation. Improper installation can lead to electrical hazards or damage to the product and vehicle.

- Ensure the vehicle's power is disconnected before beginning any electrical work.
- Verify the operating voltage of your vehicle (DC12-24V) matches the product specifications.
- Avoid touching electrical components with wet hands.
- If you are unsure about the installation process, consult a qualified professional.
- Do not modify the product in any way, as this may void the warranty and create safety risks.

3. Product Overview

The Greluma 15 LED Trailer Brake Light Bar is a versatile and durable lighting solution designed for various vehicles. It features 15 bright red LEDs and is built to withstand harsh weather conditions.

Key Features:

- **Dual Brightness Functionality:** Provides low brightness for running lights and high brightness for brake/stop lights.
- **Wide Voltage Compatibility:** Operates efficiently within a DC 10-30V range.
- **Durable and Waterproof:** Constructed with robust materials and an IP65 rating, making it resistant to sand, dust,

dirt, water, and snow.

- **Multi-functional:** Can serve as a marker light, clearance light, side marker light, identification light, stop light, turn signal light, tail light, and brake light.



Image: The 15 LED light bar provides bright, crisp illumination for enhanced visibility.

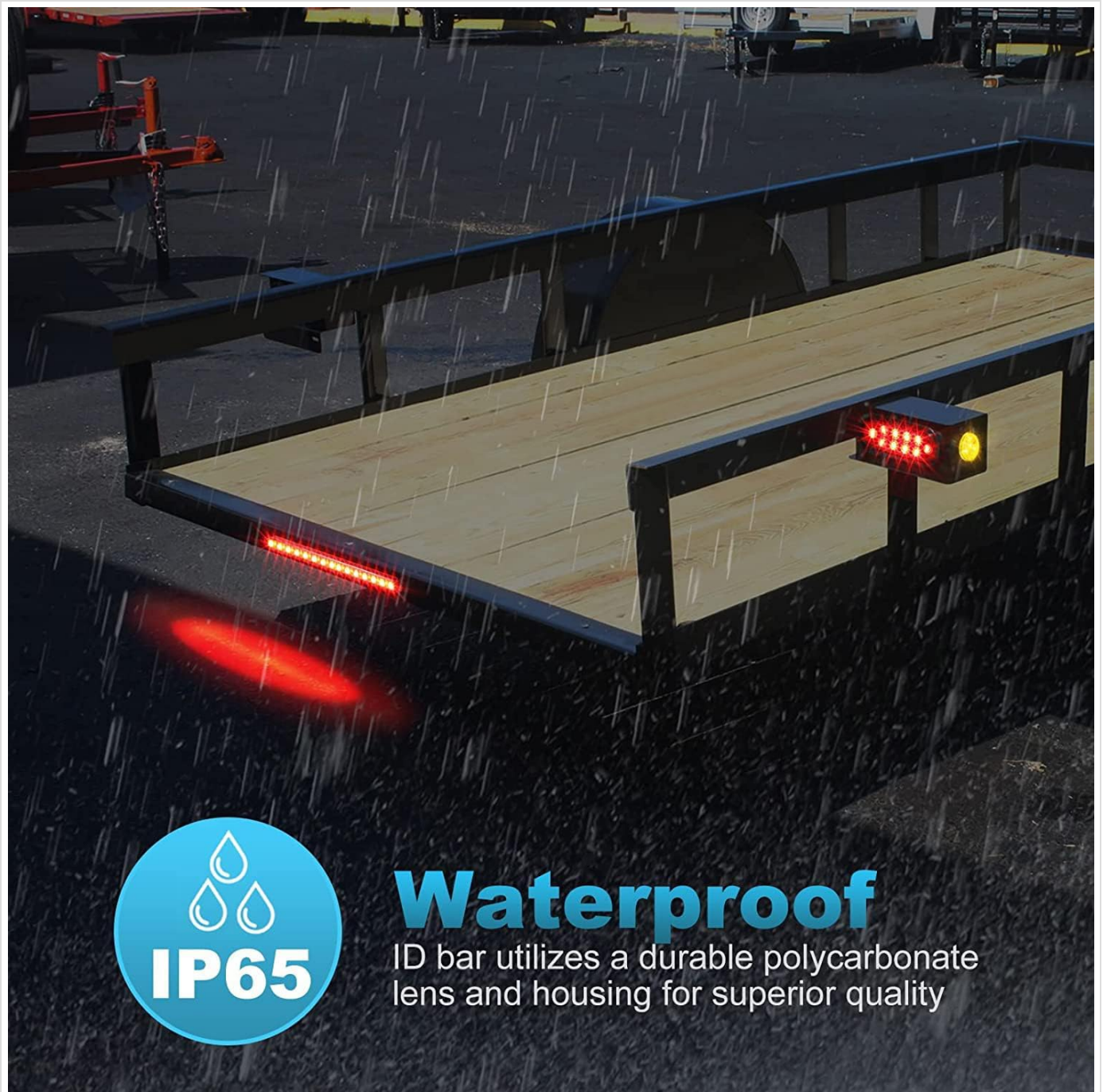


Image: The light bar features an IP65 waterproof rating, ensuring durability in various weather conditions.

4. Setup and Installation

The Greluma light bar is designed for direct bolt-on installation. Follow the wiring diagram carefully for proper connection.

Wiring Instructions:

- **Black Wire:** Connect to Ground (Negative)
- **Red Wire:** Connect for High Brightness (Brake/Stop Light function)
- **Green Wire:** Connect for Mid Brightness (Tail/Running Light function)

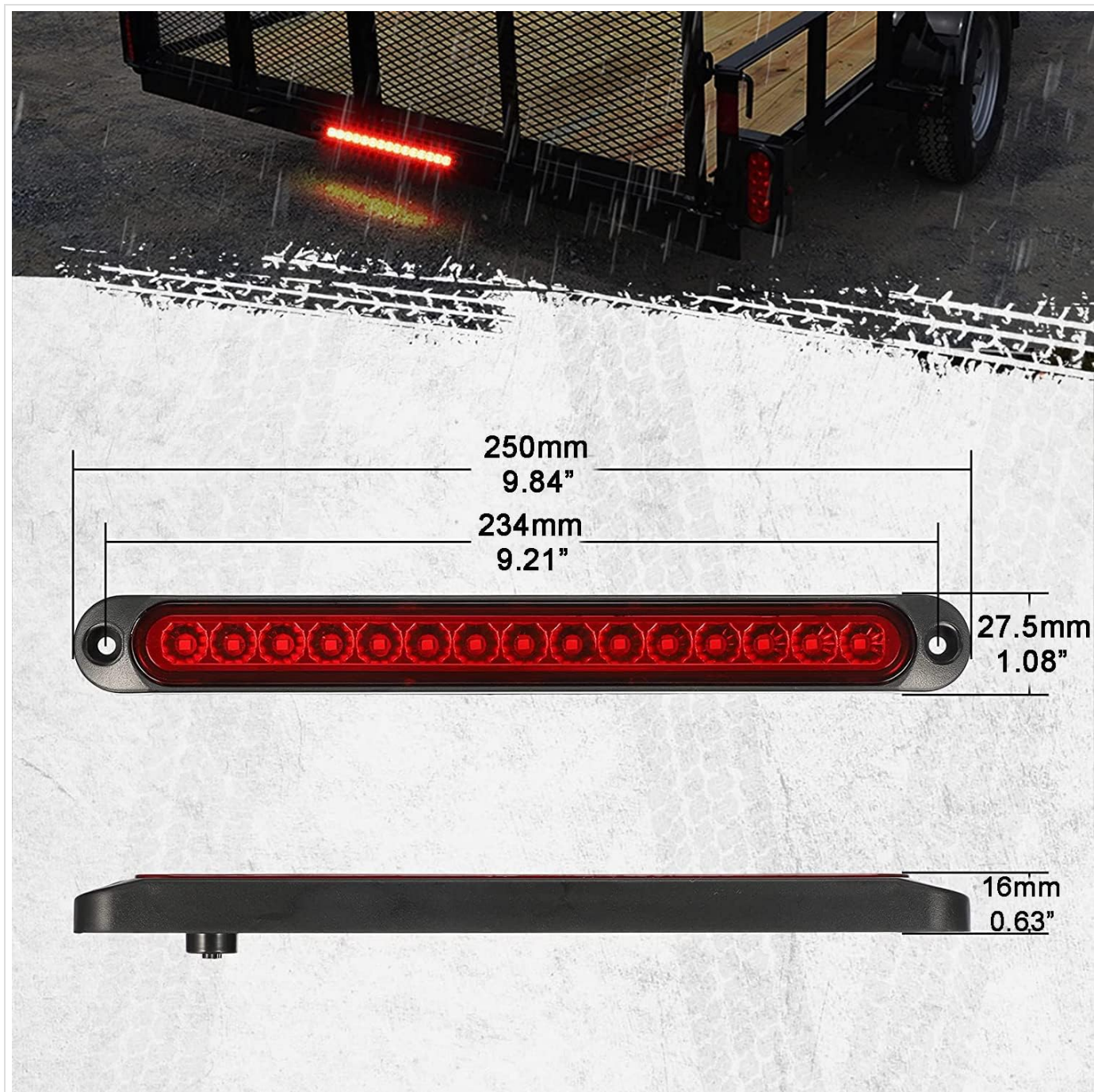


Image: Detailed wiring instructions for connecting the light bar to your vehicle's electrical system.

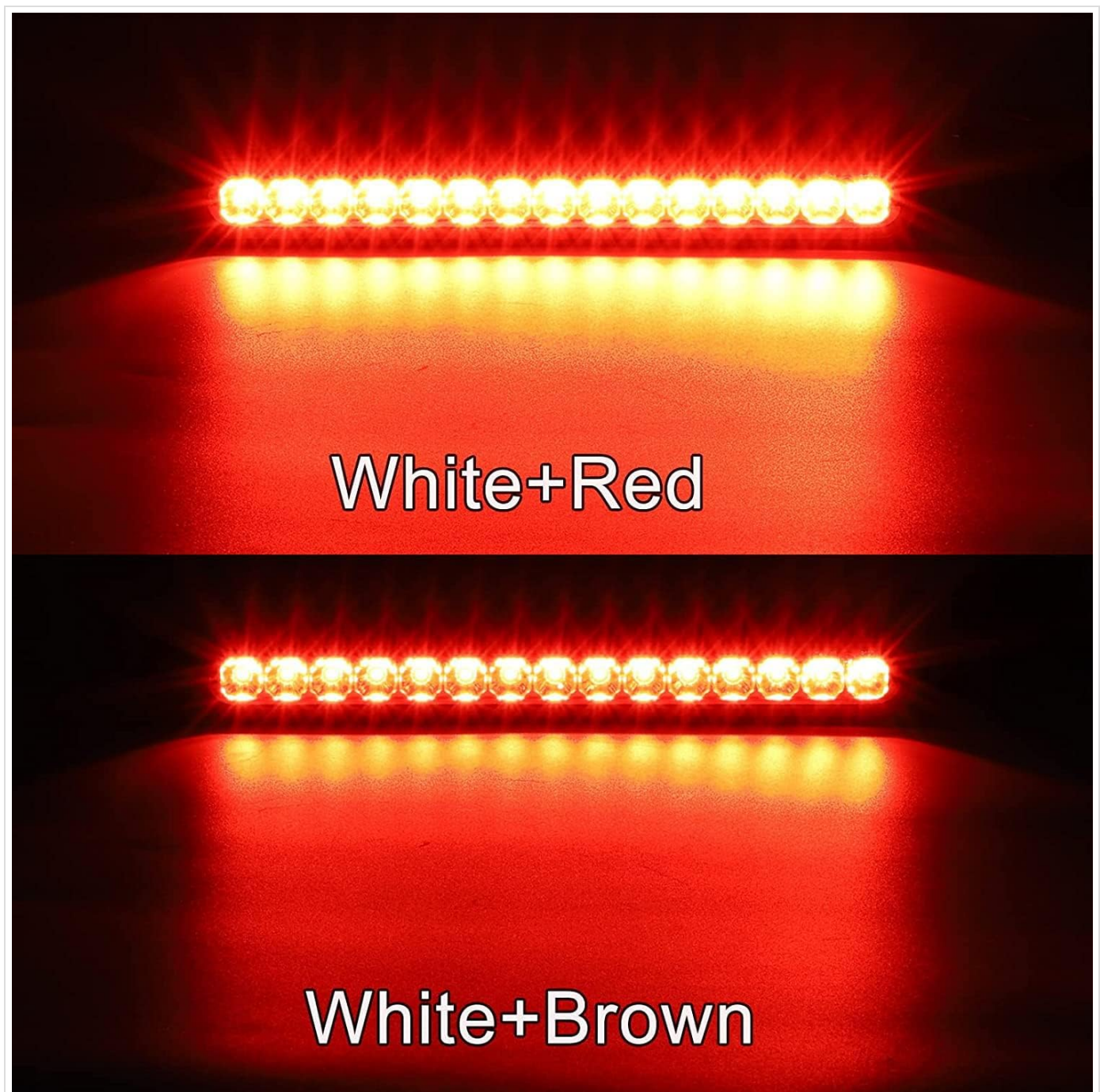


Image: Visual representation of the two brightness levels achievable with different wiring connections.

Mounting:

The light bar is designed for surface mounting using bolts. Ensure the mounting surface is flat and secure. Refer to the dimensions below for proper placement.

Easy to Wire



- | | |
|------------|---|
| Black Wire | Ground (Negative) |
| Red Wire | High brightness
used as brake/stop light. |
| Green Wire | Mid brightness
used as tail/running light. |

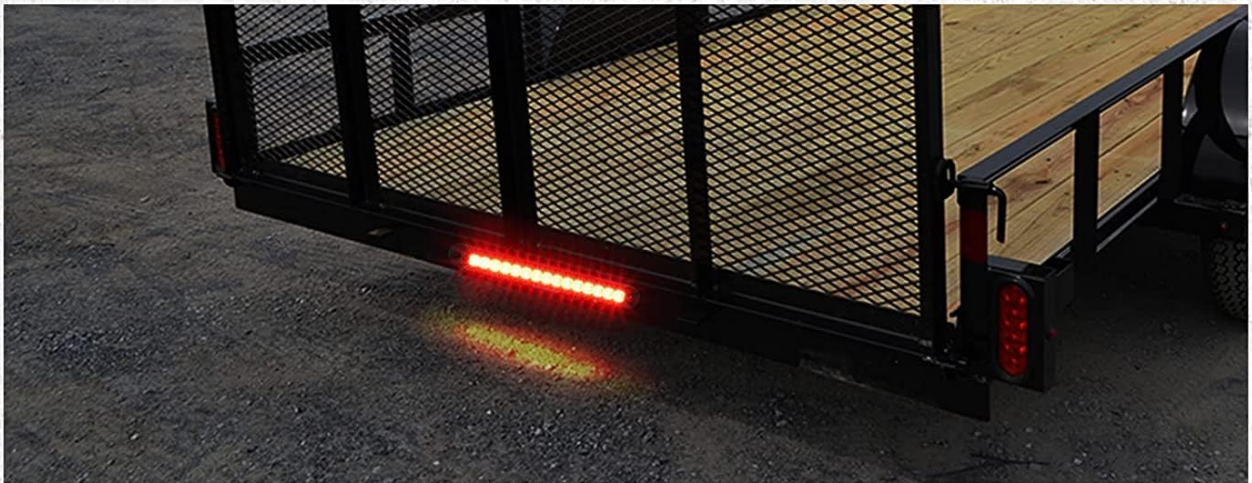


Image: Dimensional drawing of the light bar for accurate installation and fitment.

5. Operating Instructions

Once properly installed, the light bar will function automatically with your vehicle's electrical system.

- When the tail/running lights are activated, the light bar will illuminate at mid-brightness.
- When the brake pedal is pressed, the light bar will illuminate at high-brightness, serving as a clear stop signal.
- The light bar is suitable for a wide range of vehicles and applications, including: trucks, trailers, caravans, boat trailers, horse trailers, RV trailers, cargo trailers, campers, pickups, golf carts, cars, motorcycles, off-road vehicles, snowmobiles, RVs, and SUVs.

Brake/Turn/Park Function

Universal use on almost all 12V vehicles, heavy duty trucks, semi-trailers, cargo and utility trailers, boat trailers, work vehicles and any wide or narrow motor vehicle requiring quality dot rated lighting.



Image: Examples of vehicle types compatible with the Greluma light bar for brake, turn, and park functions.

6. Maintenance

The Greluma light bar requires minimal maintenance due to its durable and waterproof design.

- **Cleaning:** Periodically clean the lens with a soft, damp cloth to ensure maximum light output. Avoid abrasive cleaners or solvents that could damage the plastic.
- **Inspection:** Regularly check the wiring connections for any signs of corrosion or damage. Ensure mounting bolts remain tight.

7. Troubleshooting

If the light bar is not functioning as expected, consider the following:

- **Light does not illuminate:**

- Check all wiring connections to ensure they are secure and correctly matched (Ground, Brake, Running).
 - Verify that the vehicle's power supply is active and within the 10-30V operating range.
 - Inspect the vehicle's fuses related to the lighting system.
- **Light is dim or flickers:**
 - Ensure proper grounding. A poor ground connection can cause dimming or flickering.
 - Check for any loose connections in the wiring.
 - Verify the vehicle's voltage output is stable.

If problems persist after checking these points, please contact customer support.

8. Specifications

Brand	Greluma
Model Number	ZL1107LUM
Operating Voltage	DC 10-30V
Light Source Type	LED
Number of LEDs	15
Light Color	Red
Wattage	6.12 Watts
Special Features	Waterproof (IP65), Weather-resistant
Lens Material	Plastic
Installation Type	Universal
Part Placement	Rear
Dimensions (Approx.)	Length: 250mm (9.84"), Mounting Hole Distance: 234mm (9.21"), Height: 27.5mm (1.08"), Depth: 16mm (0.63")

9. Warranty and Support

For any product issues, questions, or support needs, please do not hesitate to contact Greluma customer service. We are committed to providing assistance and ensuring your satisfaction.

Please refer to your purchase documentation for specific warranty terms and contact information.