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LASGOO LG-3DM, LG-REC01

LasGoo LG-3DM Green Beam Laser Level and LG-REC01 Receiver User Manual

Comprehensive instructions for safe and effective operation.

1. INTRODUCTION

The LasGoo LG-3DM is a high-precision green beam laser level designed for various applications, including construction and picture hanging. It projects bright, clear green laser beams visible up to 100 feet, ensuring accurate results. The LG-REC01 is a compatible laser receiver that enhances the detection range and precision of the laser level.

This manual provides essential information for the proper setup, operation, and maintenance of your LasGoo LG-3DM laser level and LG-REC01 receiver. Please read it thoroughly before use.

GREEN LASER TECHNOLOGY



Image 1.1: The LasGoo LG-3DM utilizes advanced green laser technology for high visibility.

2. SAFETY INFORMATION

WARNING: This product contains a Class II laser. Avoid direct eye exposure to the laser beam. Do not stare into the beam. Laser output is under 1mW.

- Never look directly into the laser beam.
- Do not point the laser beam at people or animals.
- Do not modify the laser device. Unauthorized modifications can increase laser radiation.
- Store the device out of reach of children.
- Use only original accessories and power adapters provided by the manufacturer.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- 1x LasGoo LG-3DM Laser Level
- 1x Magnetic Rotating Stand
- 1x Laser Target Plate
- 1x Wall Mounting Plate
- 1x Type-C Cable
- 1x Portable Bag
- 1x User Manual (this document)
- 1x LG-REC01 Laser Receiver
- 1x Clamp Bracket (for LG-REC01)



4. PRODUCT COMPONENTS

4.1 LasGoo LG-3DM Laser Level

The LG-3DM features three 360° green laser lines (one horizontal, two vertical) for comprehensive coverage. It includes a control panel for mode selection and battery status indicators.

4.2 LasGoo LG-REC01 Laser Receiver

The LG-REC01 receiver is designed to detect the green laser beams from the LG-3DM, especially in bright conditions or over longer distances. It features a double-sided LCD display, optical and acoustic detection signals, and buttons for power, mode selection, and sound control.



Image 4.1: The LasGoo LG-REC01 Laser Receiver.

Double-Sided LCD Display



Image 4.2: The LG-REC01 features a convenient double-sided LCD display for easy viewing.

5. SETUP

5.1 Charging the LG-3DM Battery

The LG-3DM is equipped with a 5200mAh rechargeable lithium-ion battery. Before first use, fully charge the battery.

1. Connect the provided Type-C cable to the charging port on the laser level.
2. Connect the other end of the cable to a suitable USB power adapter (not included).
3. The battery indicator lights on the device will show charging progress. All lights will be solid when fully charged.

High-Capacity Rechargeable Battery



5200mAh



Image 5.1: Charging the LG-3DM via its USB-C port.

5.2 Mounting the LG-3DM

The LG-3DM can be mounted using the Magnetic Rotating Stand or the Wall Mounting Plate.

- **Magnetic Rotating Stand:** Attach the laser level to the stand. The stand can then be magnetically secured to metal surfaces or mounted on a tripod via its threaded interface.
- **Wall Mounting Plate:** Secure the plate to a wall using appropriate fasteners. The laser level can then be attached to the plate.

5.3 Powering On/Off

To power on the LG-3DM, slide the pendulum lock switch to the unlocked position. To power off, slide the pendulum lock switch to the locked position.

6. OPERATION

6.1 LG-3DM Operating Modes

The LG-3DM offers two primary operating modes:

- **Self-Leveling Mode:** When the pendulum lock is in the unlocked position, the laser level will automatically self-level within its specified range. If the device is outside its leveling range, the laser lines will flash rapidly to indicate an out-of-level condition.
- **Manual/Pulse Mode:** To activate manual mode (for projecting lines at any angle) or pulse mode (for use with the receiver), refer to the specific button presses on the device's control panel. Typically, holding the power button or a dedicated mode button will switch between these functions.



Image 6.1: The LG-3DM in self-leveling mode, ensuring a perfectly straight line.

6.2 Using the LG-REC01 Receiver

The LG-REC01 receiver extends the working range and improves visibility of the laser lines, especially outdoors or in bright environments.

1. **Power On:** Press the power button on the LG-REC01.
2. **Activate Pulse Mode on LG-3DM:** Ensure your LG-3DM laser level is in pulse mode for the receiver to detect the beam.
3. **Detection:** Move the LG-REC01 receiver into the path of the laser beam. The double-sided LCD display will show arrows indicating whether to move the receiver up or down to align with the laser line.
4. **Optical and Acoustic Signals:** A clear indicator light on the screen, combined with an adjustable speaker, provides precise signals, helping you quickly and accurately locate the laser plane.
5. **Precision Modes:** The LG-REC01 supports dual precision modes. Switch between high precision (accuracy within 2mm) and low precision (accuracy within 3mm) based on your task requirements.

Dual Precision Modes



Image 6.2: The LG-REC01 receiver offers dual precision modes for varied tasks.

6.3 Compatibility with Different Laser Types

The LG-REC01 is designed to detect 10KHz frequency red and green light beams, making it versatile for use with various laser levels.



Compatible with Two Types of Light

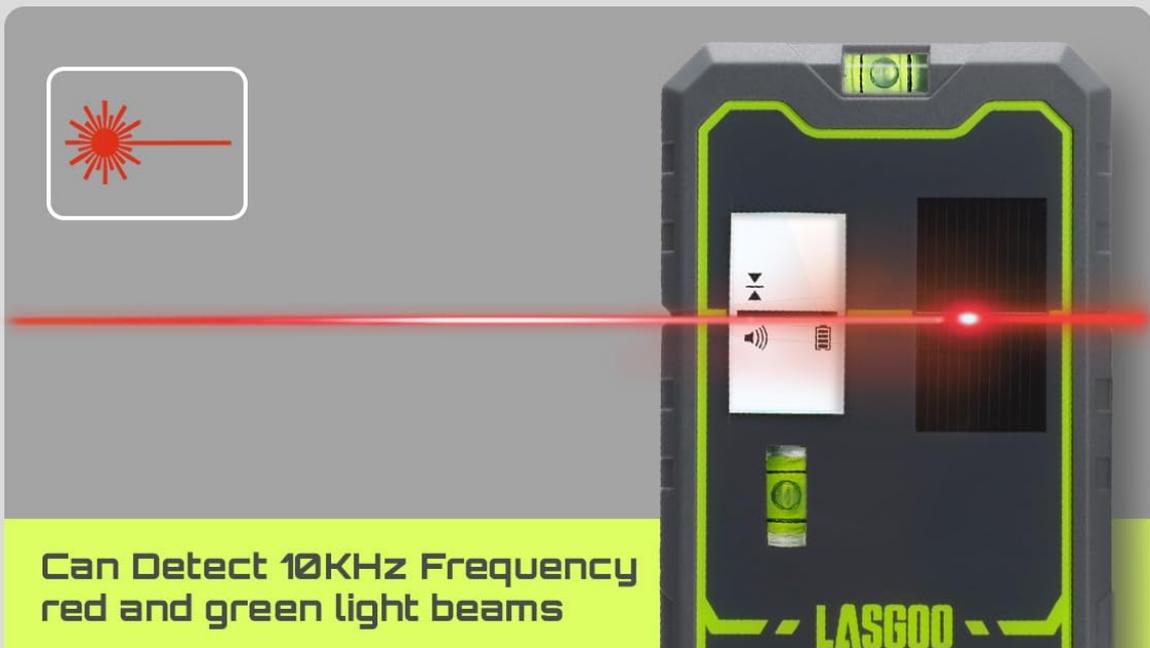


Image 6.3: The LG-REC01 is compatible with both green and red laser beams.

7. MAINTENANCE

- **Cleaning:** Use a soft, damp cloth to clean the device. Do not use abrasive cleaners or solvents.
- **Storage:** Store the laser level and receiver in their portable bag in a dry, dust-free environment when not in use.
- **Battery Care:** For optimal battery life, avoid fully discharging the LG-3DM battery frequently. Charge it regularly.

8. TROUBLESHOOTING

- **Laser lines are flashing:** The device is out of its self-leveling range. Place the laser level on a more

level surface.

- **No laser lines:** Ensure the pendulum lock is in the unlocked position and the battery is charged.
- **Receiver not detecting laser:** Ensure the LG-3DM is in pulse mode. Check battery levels for both devices. Ensure the receiver is within the operating range.
- **Inaccurate readings:** Ensure the device is properly calibrated. If issues persist, contact customer support.

9. SPECIFICATIONS

Feature	Specification
Laser Class	Class II (<1mW)
Laser Color	Green
Visibility Range (LG-3DM)	Up to 100 feet (30 meters)
Battery (LG-3DM)	5200mAh Rechargeable Lithium-ion
Charging Port (LG-3DM)	Type-C
High Precision Mode (LG-REC01)	±2mm
Low Precision Mode (LG-REC01)	±3mm
Receiver Compatibility (LG-REC01)	10KHz Red and Green Light Beams