

Bosch LR8, GLL3-330CG

Bosch LR8 Line Laser Receiver and GLL3-330CG Laser User Manual

Model: LR8, GLL3-330CG

1. INTRODUCTION

This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your Bosch LR8 Line Laser Receiver and Bosch GLL3-330CG 360-Degree Green Beam Three-Plane Leveling and Alignment-Line Laser.

The Bosch LR8 Line Laser Receiver is designed to extend the working range of select Bosch line laser tools, including the GLL3-330GC, GLL3-330C, GLL3-300, and GCL 2-160. It features an oversized receiver for fast detection, a backlit LCD display, dual-sided LED indicators, and an adjustable audio signal. The GLL3-330CG laser provides three 360-degree green laser planes for leveling and alignment tasks, incorporating VisiMax technology for optimal line visibility.

Key Features:

- **Advanced Line Laser Receiver design:** Extends working range and provides audio indication, easy-to-use mounting bracket, and robust magnets.
- **Extended Working Range:** Detects lines from Bosch GLL3-330GC or C up to 330 Ft. diameter, GLL3-300 up to 300 Ft diameter, and GCL 2-160 up to 165 Ft.
- **All-in-One Laser:** The Bosch GLL3-330CG provides a complete level and alignment solution with three 360° laser planes (one horizontal, two vertical).
- **VisiMax Technology:** Monitors power consumption to maximize line visibility and extend battery life of the GLL3-330CG laser.



An image showing the Bosch LR8 Line Laser Receiver on the left and the Bosch GLL3-330CG 360-Degree Green Beam Three-Plane Leveling and Alignment-Line Laser on the right, with green laser lines emanating from the laser unit.

2. SAFETY INFORMATION

Always observe the following safety precautions when operating the Bosch LR8 Line Laser Receiver and GLL3-330CG Laser to prevent injury or damage to the device.

General Safety Warnings:

- **Laser Radiation:** Do not stare into the laser beam or direct it at other persons. The laser is a Class 2 laser product.
- **Eye Protection:** Do not use laser viewing glasses as safety glasses. They only enhance the visibility of the laser beam; they do not protect against laser radiation.
- **Children:** Keep laser tools out of reach of children.
- **Maintenance:** Do not attempt to modify or repair the laser tool or receiver yourself. Refer all servicing to qualified service personnel.
- **Environment:** Use the tools in a well-lit area. Avoid using in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.
- **Batteries:** Use only the specified battery types. Ensure correct polarity when inserting batteries. Do not mix old and new batteries.

3. COMPONENTS OVERVIEW

Bosch LR8 Line Laser Receiver:

- **Receiver Window:** Area where the laser beam is detected.

- **LCD Display:** Backlit screen showing detection status, battery level, and arrow indicators.
- **LED Indicators:** Dual-sided arrows for visual guidance.
- **Power Button:** Turns the receiver on/off.
- **Audio Signal Button:** Toggles the adjustable audio signal.
- **Accuracy Button:** Adjusts detection accuracy (fine/coarse).
- **Mounting Bracket:** For attaching to leveling rods or other surfaces.
- **Magnets:** Integrated heavy-duty magnets for secure attachment to metal surfaces.

Bosch GLL3-330CG Laser:

- **Laser Apertures:** Emits green laser lines (one horizontal, two vertical).
- **Power Switch/Lock:** Turns the laser on/off and locks the pendulum for transport.
- **Mode Buttons:** Selects laser line configurations (horizontal, vertical, or all).
- **Battery Compartment:** Houses the power source.
- **Mounting Thread:** For tripod or universal mount attachment.

4. SETUP

4.1. Installing Batteries

For LR8 Receiver: Open the battery compartment cover on the back of the receiver. Insert the specified batteries, ensuring correct polarity (+/-). Close the cover securely.

For GLL3-330CG Laser: Open the battery compartment. Insert the specified batteries, observing polarity. Close the compartment.

4.2. Initial Power On

LR8 Receiver: Press the power button to turn on the receiver. The LCD display will illuminate.

GLL3-330CG Laser: Slide the power switch to the "ON" position. The laser will self-level and project the selected laser lines.

4.3. Mounting the LR8 Receiver

- **On a Leveling Rod:** Attach the LR8 receiver to a leveling rod using the click-in mounting bracket.
- **On Metal Surfaces:** Utilize the built-in heavy-duty magnets to securely attach the receiver to ferrous metal surfaces.

5. OPERATING INSTRUCTIONS

5.1. Using the GLL3-330CG Laser

- **Placement:** Position the laser on a stable, level surface or tripod within the desired working area.
- **Self-Leveling:** Ensure the laser is within its self-leveling range. If outside this range, the laser lines will flash, indicating an unlevelled condition.

- **Mode Selection:** Press the mode buttons to cycle through different laser line configurations: horizontal, vertical, or all three planes simultaneously.
- **Pulse Mode (for Receiver Use):** Activate the pulse mode on the GLL3-330CG (refer to its specific manual for details) to enable detection by the LR8 receiver, especially over longer distances or in bright conditions.

5.2. Using the LR8 Receiver with the Laser

- **Power On:** Turn on both the GLL3-330CG laser and the LR8 receiver.
- **Detection:** Move the LR8 receiver into the path of the laser beam. The receiver's LCD display and LED indicators will guide you.
- **Arrow Indicators:**
 - An upward arrow indicates the receiver needs to be moved up to find the laser line.
 - A downward arrow indicates the receiver needs to be moved down to find the laser line.
 - A horizontal line (or center indicator) signifies that the receiver is precisely on the laser line.
- **Audio Signal:** If enabled, the audio signal will change pitch or emit a continuous tone when the receiver is centered on the laser line.
- **Accuracy Adjustment:** Use the accuracy button on the LR8 to switch between fine and coarse detection modes, depending on the precision required for your task.
- **Extended Range:** The LR8 extends the working range of compatible Bosch lasers significantly, allowing for outdoor use and larger job sites.

6. MAINTENANCE

6.1. Cleaning

- Regularly clean the receiver window and laser apertures with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- Ensure no dust or debris accumulates on the optical components.

6.2. Storage

- Store the tools in their original carrying case or a protective bag when not in use.
- Store in a dry, dust-free environment, away from direct sunlight and extreme temperatures.
- Remove batteries if the tools will not be used for an extended period to prevent leakage.

6.3. Calibration

While the GLL3-330CG laser is self-leveling, periodic checks of its calibration are recommended, especially after significant impacts or drops. Refer to the GLL3-330CG's specific manual for calibration check procedures. The LR8 receiver does not require user calibration.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
LR8 Receiver not detecting laser beam.	Laser not in pulse mode. Receiver too far from laser. Obstruction between laser and receiver. Low batteries in receiver or laser. Bright ambient light.	Ensure GLL3-330CG is in pulse mode. Move receiver closer to the laser. Remove any obstructions. Replace batteries in both units. Use receiver in shaded areas or at closer distances in bright light.
GLL3-330CG laser lines are flashing.	Laser is outside its self-leveling range. Low batteries.	Place laser on a more level surface. Replace batteries.
Inaccurate readings from GLL3-330CG.	Laser dropped or impacted (potential calibration issue). Unstable surface.	Perform a calibration check as per GLL3-330CG manual. If necessary, contact Bosch service. Ensure laser is on a stable, vibration-free surface.
Audio signal on LR8 is too loud/quiet.	Audio volume setting.	Press the audio signal button to adjust volume or mute.

8. SPECIFICATIONS

Feature	Detail
Brand	Bosch
Model	LR8 Line Laser Receiver, GLL3-330CG Laser
Material	Metal
Color	Black, Blue, Green, Red
Operation Mode	Automatic
Power Source	Battery Powered
Item Package Quantity	1
Special Features	Green-line laser, Extended range with receiver, Dual-sided LED indicators, Adjustable audio signal, Magnets
Working Range (with LR8)	Up to 330 Ft. diameter (GLL3-330GC/C), 300 Ft. diameter (GLL3-300), 165 Ft. (GCL 2-160)

9. WARRANTY AND SUPPORT

For detailed warranty information, please refer to the warranty card included with your product or visit the official Bosch Tools website. Bosch provides comprehensive customer support for its products.

If you encounter issues not covered in the troubleshooting section, require service, or have questions about your product, please contact Bosch Customer Service. Contact information can typically be found on the Bosch website or in the product packaging.

Online Support: [Visit Bosch Tools Support](#)