

VEVOR LRE203

VEVOR Rotary Laser Level Kit Instruction Manual (Model LRE203)

Precision Leveling for Construction and Home Improvement

1. INTRODUCTION

Thank you for choosing the VEVOR Rotary Laser Level Kit, Model LRE203. This comprehensive kit is designed to provide accurate and efficient leveling and alignment for a wide range of construction and home improvement projects. Please read this manual thoroughly before operating the device to ensure safe and correct usage.

Key Features:

- **360-Degree Rotating Scan:** Self-leveling rotary laser level for efficient site-wide leveling and alignment. Features $\pm 5^\circ$ self-leveling with manual mode. Variable speeds (0/60/120/300/600 rpm) and scan angles (0°, 10°, 45°, 90°, 180°) cover every task.
- **984 ft Working Distance:** The laser level reaches up to 984 ft with the receiver, ideal for large remodels and small jobsites. Includes receiver, grade rod, tripod, and laser glasses to enhance visibility in bright conditions.
- **Rechargeable Power:** Driven by four 1.2V NiMH cells, the rotary laser runs 8–12 hours per charge (charger included), keeping you productive without frequent battery swaps.
- **IP54 Durability:** Rugged, impact-resistant housing seals out water and dirt for long-term reliability. The rotary laser level kit comes with a tough hard case for organized transport.
- **Effortless to Use:** Intuitive interface plus remote control (up to 65 ft) for quick setup. 5/8 inch mounting thread fits most tripods and accessories used with rotary lasers.

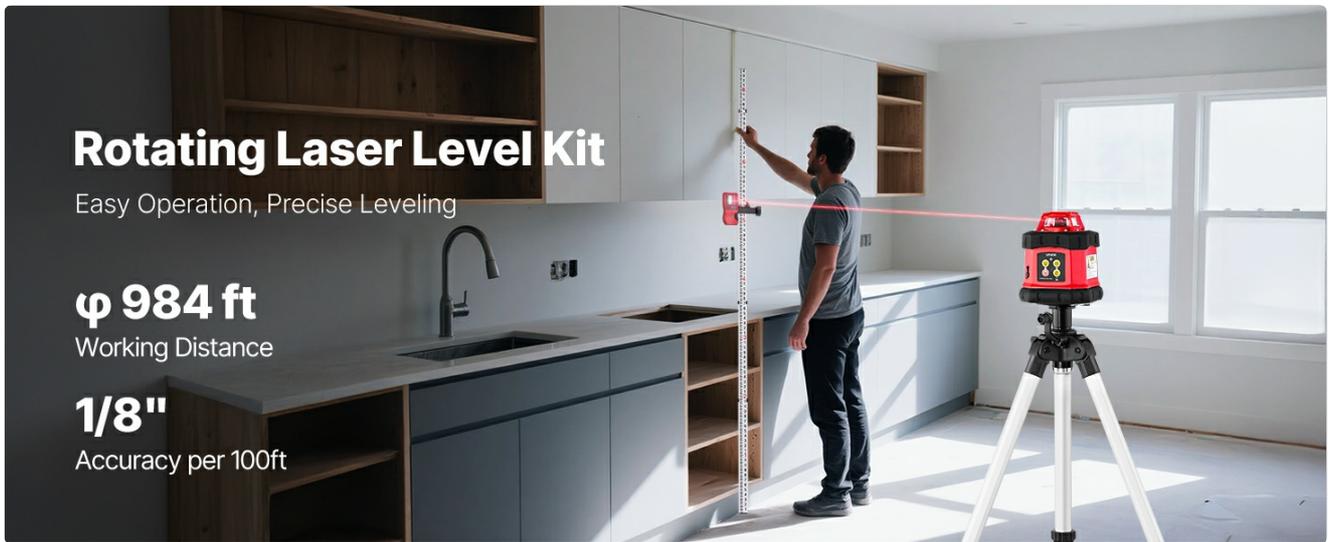


Figure 1: VEVOR Rotary Laser Level in operation, projecting a red laser line across a construction site.

2. PACKAGE CONTENTS

Verify that all items listed below are included in your VEVOR Rotary Laser Level Kit:

- 1 x Rotary Laser Level
- 1 x Laser Receiver
- 1 x Remote Control
- 1 x Lightweight Tripod
- 1 x Scale (Grade Rod)
- 1 x Laser Reflector
- 1 x Laser Glasses
- 1 x Adapter (US Standard)
- 1 x Plastic Toolbox
- 1 x User Manual



Figure 2: The complete VEVOR Rotary Laser Level Kit, including the laser level, tripod, receiver, remote control, grade rod, laser glasses, adapter, and plastic toolbox.

3. SPECIFICATIONS

Item Model Number	LRE203
Leveling Accuracy	±1/8" High Accuracy per 100ft
Working Range	984 ft
Auto Leveling Range	±5°
Protection Rating	IP54
Laser Color	Red
Working Temperature	10°C ~ 45°C

Power Supply	4 x AA NiMH Batteries, Single Cell 1.2V
Mounting Thread	5/8 inch-11 Imperial
Compatible Bracket Thread	5/8 inch-11 Imperial
Main Material	Housing: ABS, Scale/Tripod: Aluminum Alloy
Scale Measuring Range	0-8.36 ft / 0-2.55 m
Net Weight (With All Accessories)	16.5 lb / 7.5 kg



1 x Laser Receiver



1 x Remote Control



1 x Laser Reflector



1 x Laser Glasses



1 x Adapter (US Standard)



1 x Plastic Toolbox

Item Model Number: **LRE204**

Leveling Accuracy:
±1/8" High Accuracy per 100ft

Working Temperature (°C): **10~45**

Laser Color: **Red**

Mounting Thread: **5/8 inch-11 Imperial**

Compatible Bracket Thread: **5/8 inch-11 Imperial**

Power Supply: **4 x AA NiMH Batteries, Single Cell 1.2V**

Main Material: **Housing: ABS Scale/Tripod: Aluminum Alloy**

Scale Measuring Range: **0-8.36 ft / 0-2.55 m**

Working Range: **984ft**

Auto Leveling Range: **±5°**

Protection Rating: **IP54**

Net Weight (With All Accessories):
16.5 lb / 7.5 kg

Figure 3: Visual representation of the VEVOR Rotary Laser Level's dimensions and key specifications, including the tripod and grade rod.

4. SAFETY INFORMATION

This device emits a Class II laser. Always follow these safety precautions:

- Do not stare directly into the laser beam.
- Avoid direct eye exposure to the laser beam.
- Do not aim the laser beam at people or animals.
- Use laser safety glasses when operating the device, especially in bright conditions.
- Keep the device out of reach of children.
- Do not attempt to modify or disassemble the laser level.

5. SETUP

5.1 Battery Installation

The rotary laser level is powered by four 1.2V NiMH rechargeable batteries. Ensure the batteries are fully charged before first use. Insert the batteries into the designated compartment, observing correct polarity.

5.2 Mounting the Laser Level

The VEVOR Rotary Laser Level can be mounted on the included lightweight tripod or other compatible accessories using its 5/8 inch mounting thread.

1. Extend the legs of the tripod to a stable position on a flat surface.
2. Securely attach the rotary laser level to the tripod's mounting screw.
3. Ensure the tripod is stable and the laser level is positioned at the desired height.

Accurate, Even Outdoors

Precise Positioning with Laser Receiver in Bright Light



Professional Kit



Leveler



Tripod



Staff



Laser Receiver

Figure 4: A user setting up the VEVOR Rotary Laser Level on its tripod at an outdoor construction site, preparing for operation.

6. OPERATING INSTRUCTIONS

6.1 Powering On and Self-Leveling

1. Place the laser level on a stable surface or tripod.
2. Press the power button to turn on the device.
3. The device will automatically self-level within $\pm 5^\circ$. If the tilt angle exceeds 5° , an alarm will sound, indicating the device is outside its self-leveling range. Adjust the device's position until the alarm stops and the laser stabilizes.



Figure 5: The laser level automatically adjusting its position to achieve a level line, even on slightly sloped surfaces.

6.2 Operating Modes

The rotary laser level offers various modes for different applications:

- **Rotation Speed Adjustment:** Cycle through variable speeds (0/60/120/300/600 rpm) to suit your visibility and application needs. Higher speeds provide a more continuous line, while lower speeds offer better visibility for individual points.
- **Scan Angle Adjustment:** Select from various scan angles (0°, 10°, 45°, 90°, 180°) to create a visible laser line in a specific area, reducing interference.
- **Manual Mode:** For applications requiring sloped lines, activate manual mode. This disables the self-leveling function, allowing you to tilt the device to any desired angle.

Meets Various Space Needs

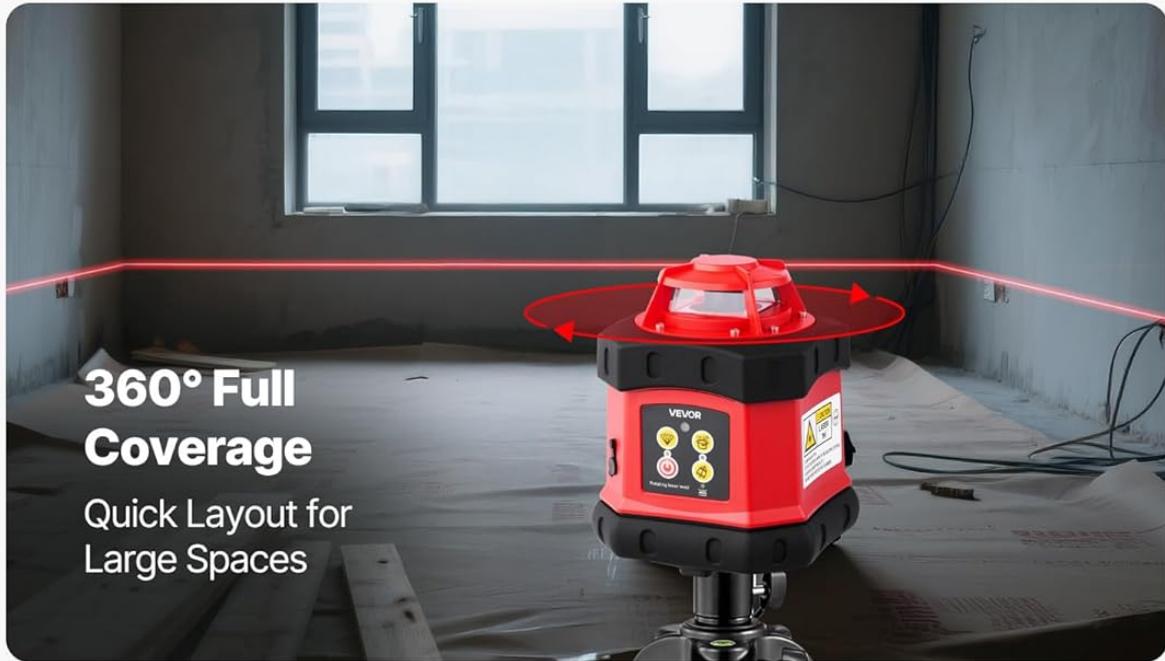


Figure 6: The laser level projecting a 360-degree line for large spaces and a directional scan for detailed work, minimizing laser interference.

6.3 Using the Remote Control

The included remote control allows for convenient operation of the laser level from up to 65 ft away. Use it to adjust rotation speed, scan angle, and switch between auto/manual modes without touching the device, preventing accidental movement.

5 Locking Extensions



Figure 7: The remote control for the VEVOR Rotary Laser Level, showing buttons for auto/manual, speed, scan mode, and directional adjustments.

6.4 Using the Laser Receiver and Grade Rod

For outdoor use or in very bright conditions, the laser receiver extends the working range up to 984 ft. The grade rod provides a stable platform for the receiver to accurately measure and transfer heights.

1. Attach the laser receiver to the grade rod using its clamp.
2. Turn on the laser receiver.
3. Move the grade rod with the receiver until the receiver indicates it has detected the laser beam (usually with an audible tone and/or visual indicator).
4. Adjust the receiver's position on the grade rod until the center mark aligns with the laser beam.
5. Read the measurement from the grade rod to determine the precise height.

Cover 2 Football Fields in 1 Setup

Ideal for Home Improvement & Small/Medium Projects



*One Football Field Length = 120yd (360ft)

Figure 8: An individual using the laser level with a receiver and grade rod to establish a level line over a long distance on a construction site.

7. MAINTENANCE

7.1 Cleaning and Storage

- Regularly clean the device with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- Keep the laser emission window clean to ensure optimal performance.
- Store the device in its plastic toolbox in a dry, cool place when not in use.

7.2 Battery Care

- Recharge the NiMH batteries using the provided adapter. A full charge provides 8-12 hours of operation.
- Do not overcharge or completely discharge the batteries.
- Remove batteries if the device will not be used for an extended period.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Laser does not turn on	Low battery or incorrect battery installation	Charge batteries or ensure correct polarity.
Laser beam is not visible or too dim	Bright ambient light, long distance, or dirty lens	Use laser glasses, laser receiver, or clean the lens. Adjust rotation speed.
Device beeps continuously	Device is outside its self-leveling range ($\pm 5^\circ$)	Adjust the device's position until it is within the self-leveling range.
Remote control not working	Remote battery low or out of range	Replace remote battery or move closer to the laser level.

9. WARRANTY AND SUPPORT

VEVOR products are designed for durability and performance. For warranty information, technical support, or service inquiries, please refer to the warranty card included in your package or visit the official VEVOR website. Keep your purchase receipt as proof of purchase.