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> [VEVOR Rotary Laser Level 2000ft User Manual](#)

VEVOR 203HG

VEVOR Rotary Laser Level 2000ft

USER MANUAL

1. Introduction

Thank you for choosing the VEVOR Rotary Laser Level. This manual provides essential information for the safe and effective operation, setup, and maintenance of your new laser level. Please read this manual thoroughly before use and retain it for future reference.

The VEVOR Rotary Laser Level 2000ft (Model: 203HG) is designed for precise leveling and alignment tasks across various industrial and commercial applications. It features a 360-degree rotating green laser, multiple rotation speeds, scanning angles, and both self-leveling and manual modes for versatile use.

2. Safety Information

WARNING: This device emits a Class 2 laser. Avoid direct eye exposure to the laser beam. Do not stare into the beam or view directly with optical instruments.

- Always wear the provided laser safety glasses when operating the device, especially in bright conditions or over long distances.
- Do not attempt to disassemble or modify the laser level. Repairs should only be performed by authorized service personnel.
- Keep the device out of reach of children and unauthorized persons.
- Ensure the work area is clear of obstructions and potential hazards.
- Operate the device within its specified temperature and humidity ranges.
- Protect the device from severe impacts and drops.
- The device has an IP66 waterproof rating, meaning it is protected against powerful water jets and dust ingress. However, it is not designed for submersion.

3. Package Contents

Upon unpacking, please verify that all items listed below are present and undamaged:

- VEVOR Rotary Laser Level Unit
- Laser Safety Glasses (x1)

- Laser Target Board (x1)
- Remote Control (x1)
- Charger (x1)
- Carrying Case (x1)
- Receiver and Handle Bracket (x1)
- User Manual (x1)



Image: All components included in the VEVOR Rotary Laser Level package.

4. Product Overview

Familiarize yourself with the main components and controls of your VEVOR Rotary Laser Level.

4.1 Main Unit



Image: Control panel of the VEVOR Rotary Laser Level.

- **Power Button:** Turns the unit on/off.
- **Rotation Speed Buttons:** Adjusts the laser head's rotation speed (0, 60, 120, 300, 600 rpm).
- **Scanning Angle Buttons:** Sets the directional scanning angle (5°, 45°, 90°, 160°).
- **Manual Mode Button:** Activates/deactivates manual leveling mode.
- **Self-Leveling Indicator:** Lights up when the unit is self-leveled.
- **Battery Indicator:** Shows remaining battery life.
- **5/8" Thread:** Located at the base for tripod mounting.

4.2 Remote Control

IP66 PROTECTION

Works well even in harsh environments



Image: Remote control for the VEVOR Rotary Laser Level.

The remote control duplicates most functions of the main unit's control panel, allowing for convenient operation from up to 65 ft (20 m) away.

4.3 Receiver

The receiver is used to detect the laser beam over long distances or in bright conditions where the laser line may not be visible to the naked eye. It provides visual and audible indicators when the laser beam is detected.

5. Specifications

Detailed technical specifications for the VEVOR Rotary Laser Level (Model: 203HG).



Image: Key specifications of the VEVOR Rotary Laser Level.

Specification	Value
Item Model Number	203HG
Measuring Range	2000 ft / 610 m
Leveling Range	$\pm 3^\circ$
Accuracy	1/9" / 33 ft (10 m)
Spinning Speed	0, 60, 120, 300, 600 rpm
Directional-scanning Angle	5°, 45°, 90°, 160°
Laser Wavelength	520nm \pm 10nm
Output Power	< 5mw (Class 2)

Power Supply	1.2V Rechargeable NiMH Batteries (4PCS)
Continuous Working Time	Approx. 8-12 h
Remote Controlling Distance	65 ft / 20 m
Water-proof Rating	IP66
Material	ABS, TPE
Item Weight	5.18 lbs / 2.35 kg
Item Dimensions	7.9" x 6.1" x 7.5" / 200 x 155 x 190 mm

6. Setup

6.1 Charging the Batteries

The laser level is powered by 4PCS 1.2V NiMH rechargeable batteries. Before first use, ensure the batteries are fully charged.

1. Locate the charging port on the side of the laser level.
2. Connect the provided charger to the charging port and plug it into a standard power outlet.
3. The battery indicator will show charging status. Charge until the indicator shows a full charge (approx. 8-12 hours for a full cycle).
4. Disconnect the charger once charging is complete.

PRECISE ALIGNMENT

Working distance of up to 2000 ft using the receiver



Image: Charging the VEVOR Rotary Laser Level's rechargeable batteries.

6.2 Mounting the Laser Level

The laser level can be placed on a stable, flat surface or mounted on a tripod using the 5/8" threaded mount at its base.

1. Choose a stable location for the laser level.
2. If using a tripod, securely screw the laser level onto the tripod's mounting screw.
3. Ensure the tripod is stable and level before powering on the unit.



Item Model Number 203HG	Measuring Range 2000 ft / 610 m	Leveling Range ±5°
Accuracy 1/9"/33 ft (10 m)	Spinning Speed 0, 60, 120, 300, 600 rpm	Directional-scanning Angle 0°, 10°, 45°, 90°, 180°
Laser Wavelength 635nm+10nm	Power Supply 1.2V Rechargeable Batteries	Output Power < 5mw
Water-proof Rating IP66	Material: ABS, TPE	Weight 5.18 lbs / 2.35 kg

Image: VEVOR Rotary Laser Level mounted on a tripod, highlighting the 5/8" threaded mount.

7. Operating Instructions

7.1 Powering On and Self-Leveling

1. Press the Power button (**red circle with power symbol**) on the main unit or remote control.
2. The unit will automatically begin self-leveling. Ensure the unit is placed on a surface within its $\pm 3^\circ$ leveling range.
3. Once leveled, the laser beam will emit continuously, and the self-leveling indicator will stabilize. If the unit is outside its leveling range, the laser may flash or an alarm may sound. Adjust the unit's position until it self-levels.

7.2 Manual Mode

For applications requiring a sloped line, activate manual mode:

1. Press the Manual Mode button (**hand symbol**) on the control panel or remote.
2. The self-leveling function will be deactivated, allowing you to manually tilt the unit to achieve the desired slope.
3. Press the Manual Mode button again to return to self-leveling mode.

RECHARGEABLE BATTERY

Runs for 8-12h on a full charge



Finish
Charging



4PCS
1.2V NiMH Batteries



Image: Illustrates the 2000 ft working distance and options for Manual or Self-leveling Mode.

7.3 Adjusting Rotation Speed

The laser head can rotate at different speeds to suit various applications:

- Press the Rotation Speed buttons (**circular arrows**) to cycle through 0, 60, 120, 300, and 600 rpm.
- A slower speed (e.g., 60 rpm) provides a brighter, more visible line for short distances.
- A faster speed (e.g., 600 rpm) creates a continuous line appearance, ideal for use with the receiver over long distances.
- 0 rpm (static mode) projects a single, stationary laser point.

7.4 Setting Scanning Angle

The directional scanning mode allows the laser to sweep back and forth within a specific angle, creating a brighter, more concentrated line in a particular area.

- Press the Scanning Angle buttons (**arc symbol**) to select angles of 5°, 45°, 90°, or 160°.

- This feature is useful for working on specific sections of a wall or floor.

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ROTATRY LASER LEVEL

Secure green laser with excellent clarity and visibility

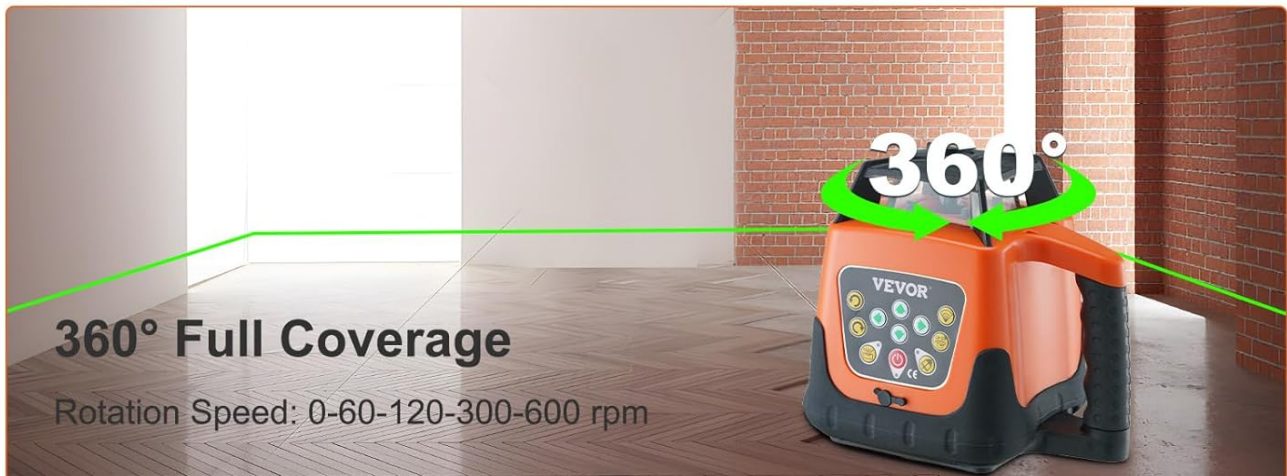


Image: Demonstrates 360° full coverage rotation and directional scanning angles.

7.5 Using the Receiver

For outdoor use, in bright indoor conditions, or over long distances (up to 2000 ft), the laser line may not be visible to the naked eye. The receiver is essential for these situations.

1. Turn on the receiver.
2. Move the receiver along the desired plane. The receiver will emit an audible tone and display visual indicators (arrows or a center line) to guide you to the exact laser line.
3. Use the handle bracket to attach the receiver to a grade rod or other suitable support for accurate measurements.

7.6 Using the Remote Control

The remote control allows you to operate the laser level from a distance of up to 65 ft (20 m), providing convenience and preventing accidental disturbance of the unit.

- Ensure the remote control has working batteries.
- Point the remote control towards the front of the laser level.
- Use the buttons on the remote to control power, rotation speed, scanning angle, and manual mode, mirroring the functions on the main unit.

8. Maintenance

Proper maintenance ensures the longevity and accuracy of your VEVOR Rotary Laser Level.

8.1 Cleaning

- After each use, wipe the device with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- Keep the laser output window clean and free of dust or debris to ensure optimal beam clarity.

8.2 Storage

- Store the laser level in its original carrying case when not in use to protect it from dust, moisture, and impacts.
- Store in a cool, dry place, away from direct sunlight and extreme temperatures.
- If storing for an extended period, remove the batteries from the unit and remote control to prevent leakage.

8.3 Battery Care

- Only use the provided charger and compatible 1.2V NiMH rechargeable batteries.
- Do not overcharge the batteries.
- If the unit will not be used for a long time, fully charge the batteries before storage and recharge them every few months to maintain battery health.

EFFORTLESS REMOTE CONTROL

All the functions of the panel are in your hands



5/8" Threaded Mount
Tripod not include!

Image: The VEVOR Rotary Laser Level features IP66 protection for durability in various environments.

9. Troubleshooting

If you encounter issues with your VEVOR Rotary Laser Level, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Laser does not turn on.	Low battery; Power button not pressed correctly; Unit malfunction.	Charge batteries fully; Ensure power button is pressed firmly; Contact VEVOR support.
Laser beam is dim or invisible.	Bright ambient light; Dirty laser output window; Incorrect rotation speed.	Use laser safety glasses and receiver; Clean laser window; Adjust to a slower rotation speed or use scanning mode.

Unit does not self-level or laser flashes.	Unit is outside its leveling range; Unit is on an unstable surface.	Place the unit on a more level surface; Ensure the surface is stable and free from vibrations.
Remote control not working.	Remote batteries are low/dead; Obstruction between remote and unit; Remote out of range.	Replace remote batteries; Ensure clear line of sight; Move closer to the unit (within 65 ft / 20 m).
Inaccurate readings.	Unit not properly leveled; Environmental factors (vibration, extreme temperature).	Ensure unit is self-leveled and stable; Avoid using in highly vibrating environments.

If the problem persists after attempting these solutions, please contact VEVOR customer support for assistance.

10. Warranty and Support

VEVOR stands behind the quality of its products. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official VEVOR website.

For technical support, troubleshooting assistance, or spare parts, please contact VEVOR customer service. When contacting support, please have your product model number (203HG) and purchase information ready.

VEVOR Official Website: www.vevor.com