

Motovera LL

Motovera 3x360° 3D Green Beam Self-Leveling Laser Level Instruction Manual

Model: LL

1. INTRODUCTION

Thank you for choosing the Motovera 3x360° 3D Green Beam Self-Leveling Laser Level. This manual provides essential information for the safe and effective operation, setup, and maintenance of your device. Please read this manual thoroughly before use and retain it for future reference.

2. SAFETY INFORMATION

WARNING: LASER RADIATION

This product is a Class II laser device. Do not stare directly into the laser beam. Avoid direct eye exposure. Use caution when operating the laser level to prevent accidental exposure to the laser beam.

- Always wear appropriate eye protection when operating the laser level.
- Do not attempt to disassemble, modify, or repair the device. This may cause serious injury and will void the warranty.
- Keep the device out of reach of children.
- Ensure the work area is clear of obstructions and personnel who may be exposed to the laser beam.
- Do not operate the laser level in explosive atmospheres or near flammable materials.

3. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- Motovera 3D Cross Line Laser Level
- Carrying Case
- Multi-Function Stand (Magnetic Bracket)
- Laser Target Board
- Type-C Cable
- User Manual (this document)



An image displaying all items included in the product package: the laser level unit, carrying case, multi-function stand, laser target board, Type-C cable, and user manual.

4. PRODUCT OVERVIEW

Familiarize yourself with the components and controls of your Motovera laser level.



A detailed diagram highlighting key components of the laser level, including the laser windows, protective cover, H/V mode button, pulse function button, lock/unlock switch, Type-C charging port, 1/4"-20 mount thread, and battery compartment.

Key Components:

- **Laser Window:** Emits the green laser beams.
- **Laser Window Protective Cover:** Shields the laser windows when not in use.
- **H/V Mode Button:** Cycles through horizontal and vertical line combinations.
- **Pulse Function Button:** Activates pulse mode for use with a laser receiver.
- **Lock/Unlock Switch:** Engages pendulum lock for manual mode or unlocks for self-leveling.
- **Type-C Charging Port:** For recharging the internal battery.
- **1/4"-20 Mount Thread:** For attachment to tripods or the magnetic bracket.
- **Battery Compartment:** Houses the Li-ion battery.
- **Battery Indicator:** Displays the current battery charge level.

5. SETUP

5.1 Initial Charging

Before first use, fully charge the laser level. Connect the provided Type-C cable to the charging port on the device and to a suitable USB power adapter (not included). The battery indicator lights will show charging progress.

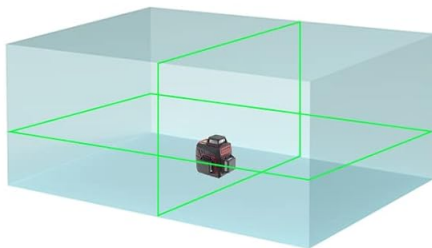
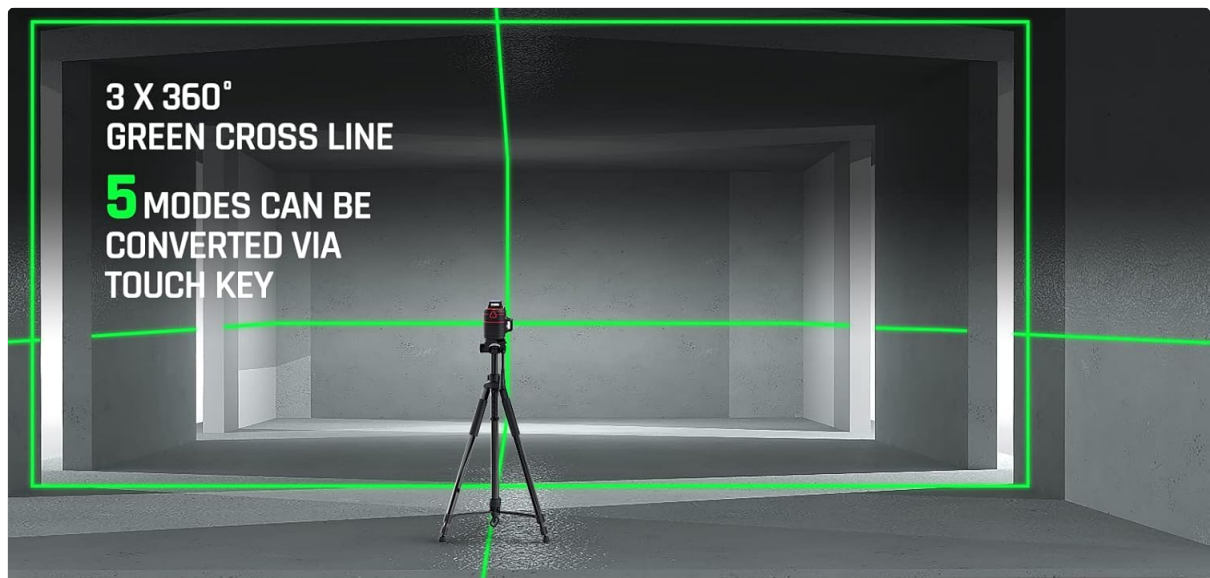


The laser level connected to a power source via its USB Type-C charging port, illustrating the charging process and the battery indicator lights.

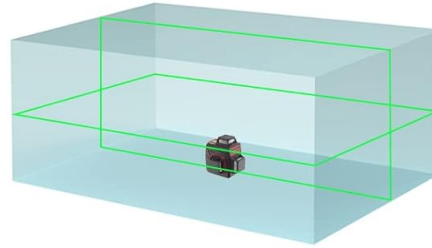
5.2 Mounting the Device

The laser level can be mounted using its 1/4"-20 thread or the included magnetic bracket.

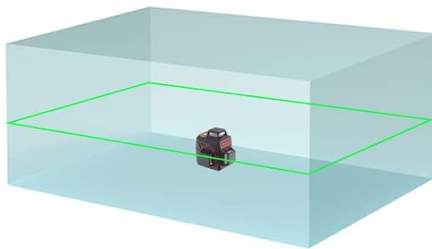
- **Tripod Mounting:** Screw the laser level onto a standard tripod using the 1/4"-20 mounting thread located at the bottom of the unit.
- **Magnetic Bracket:** Attach the magnetic bracket to the laser level via the 1/4"-20 thread. The bracket features strong magnets for securing the device to metallic surfaces. It also allows for 360° rotation and fine adjustment of position.



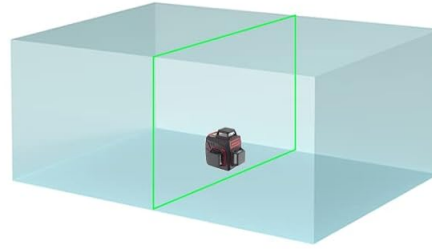
Horizontal Line + Vertical Lines



Two 360° Vertical Lines



360° Horizontal Line



360° Vertical Line

The laser level mounted on its adjustable magnetic bracket, showcasing its ability to rotate 360 degrees and be securely attached to metallic surfaces for versatile positioning.

6. OPERATING MODES

6.1 Self-Leveling Mode

This mode is used for projecting accurate horizontal and vertical lines. The device will automatically level itself within a 4° range.

1. Slide the Lock/Unlock switch to the 'Unlocked' position.
2. The laser lines will activate and begin to self-level.
3. If the device is tilted beyond its self-leveling range (4°), the laser lines will blink rapidly to indicate it cannot self-level. Adjust the device's position until the lines stop blinking and become steady.



A split image showing the laser level in self-leveling mode for accurate horizontal and vertical alignment, and in locked mode for projecting angled lines.

6.2 Manual/Locked Mode

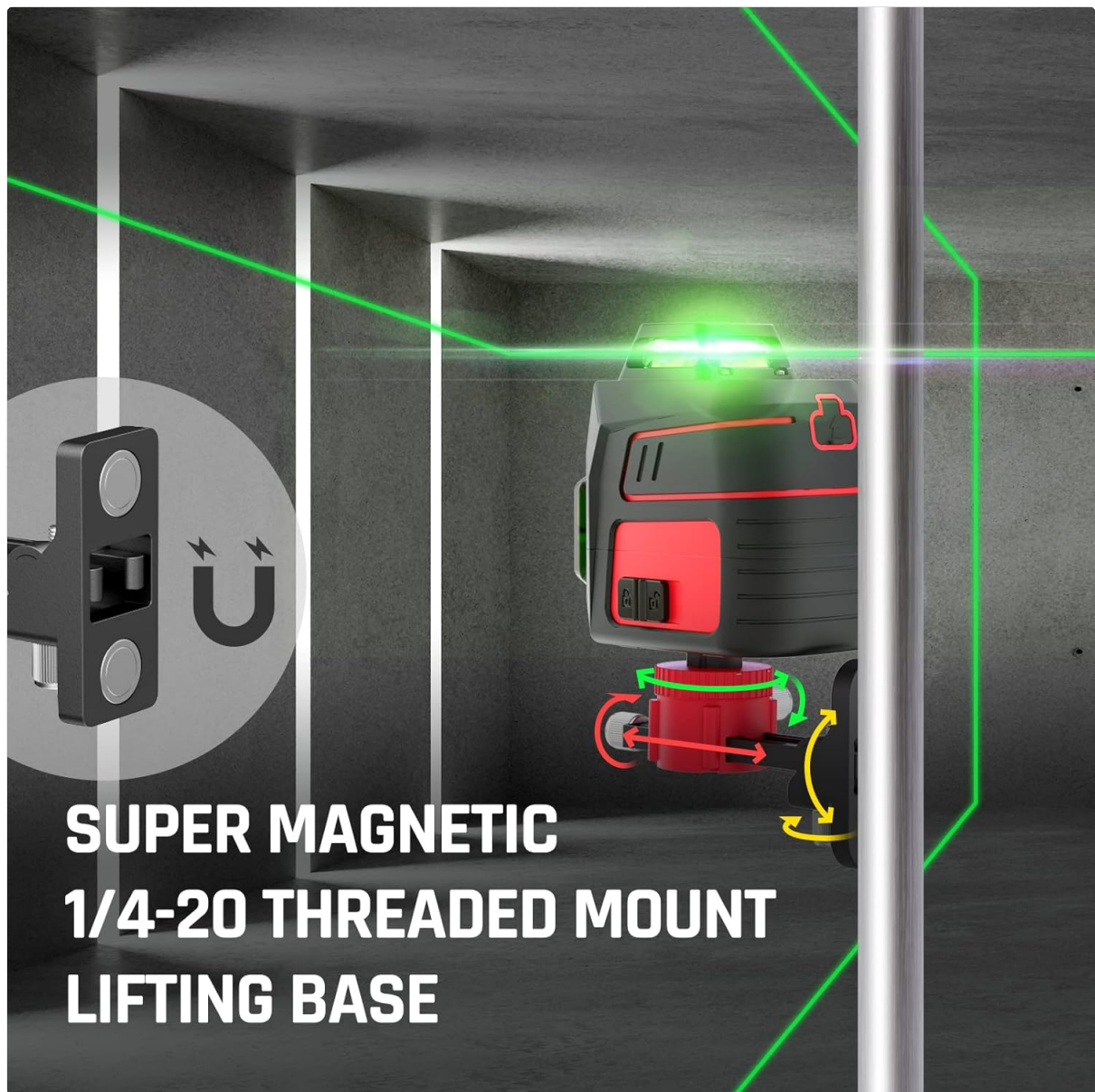
This mode allows you to project laser lines at any desired angle, disabling the self-leveling function.

1. Slide the Lock/Unlock switch to the 'Locked' position.
2. Press the power button to turn on the laser lines. The lines will be projected at the current angle of the device.
3. The laser lines may blink slowly to indicate that the device is in manual mode and not self-leveling.

6.3 Line Switching

The Motovera laser level projects three 360° green beams: one horizontal and two vertical. You can cycle through different line combinations:

1. Press the H/V Mode button once to activate the horizontal line.
2. Press again to activate one vertical line.
3. Press again to activate the second vertical line.
4. Continue pressing to cycle through combinations (e.g., horizontal + one vertical, horizontal + two vertical, all three lines, etc.).



SUPER MAGNETIC 1/4-20 THREADED MOUNT LIFTING BASE

Visual representation of the laser level projecting three 360-degree green lines (one horizontal, two vertical) and demonstrating how different line combinations can be selected for various layout needs.

6.4 Pulse Mode

Pulse mode is designed for use with an optional laser receiver (not included) to extend the working range, especially in bright outdoor conditions.

1. With the laser lines active, press the Pulse Function button.
2. The laser lines will emit a pulsed beam, which can be detected by a compatible laser receiver up to 100 feet (approximately 30 meters) outdoors.
3. Press the Pulse Function button again to exit pulse mode.

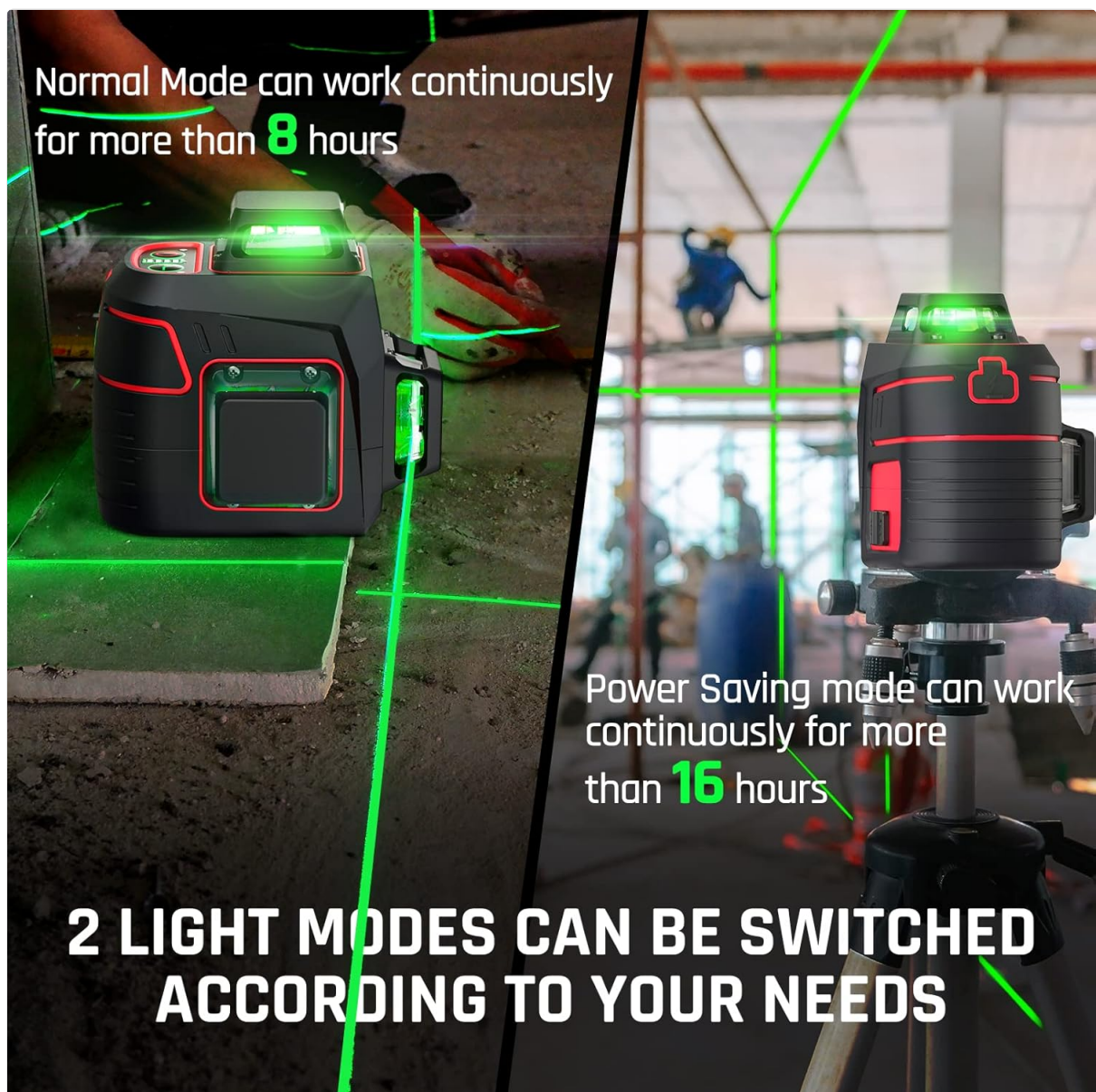
6.5 Brightness Adjustment

The laser level features two adjustable brightness settings. These settings can be cycled through by pressing the appropriate button (refer to the product overview diagram for button location) to optimize visibility for different lighting conditions and conserve battery life.

7. CHARGING AND BATTERY

The Motovera laser level is equipped with a 3.7V Li-ion battery and a Type-C charging port for convenient recharging.

- **Battery Indicator:** The device features 4 LED lights that indicate the residual power state, allowing you to monitor battery consumption intuitively.
- **Operating Time:** The 3600 mAh battery provides extended working hours. In normal mode, the device can operate continuously for more than 8 hours. In power-saving mode, it can work for over 16 hours.
- **Charging:** Use the provided Type-C cable to charge the device. A full charge typically takes less than 4 hours.



An illustration demonstrating the extended operating times of the laser level in both normal mode (up to 8 hours) and power-saving mode (up to 16 hours), emphasizing battery efficiency.

8. SPECIFICATIONS

Feature	Specification
Brand	Motovera
Model Number	LL
Laser Class	Class II (<5mW)
Laser Color	Green
Laser Lines	3 x 360° (1 Horizontal, 2 Vertical)
Accuracy	±1.5 mm at 5 m (approximately ±1/9 inch at 16 feet)
Self-Leveling Range	±4°
Pulse Mode Range	Up to 100 feet (with optional receiver)
Power Source	3.7V Li-ion Battery (3600 mAh)
Charging Port	USB Type-C
Operating Time	8+ hours (Normal Mode), 16+ hours (Power Saving Mode)
IP Rating	IP54 (Dust and Splash Resistant)
Mounting Thread	1/4"-20
Material	Metal, Plastic
Product Dimensions	Approximately 8.7"L x 7.8"W
Item Weight	Approximately 2.07 pounds

9. MAINTENANCE

- **Cleaning:** Use a soft, damp cloth to clean the device. Do not use abrasive cleaners or solvents. Keep the laser windows clean for optimal performance.
- **Storage:** Store the laser level in its carrying case in a dry, cool place, away from direct sunlight and extreme temperatures.
- **Battery Care:** For long-term storage, charge the battery to approximately 50% every three months to maintain battery health.
- **Calibration:** If you suspect the laser level is out of calibration, refer to the troubleshooting section or contact customer support. Do not attempt to recalibrate the device yourself without proper instructions.

10. TROUBLESHOOTING

If you encounter issues with your Motovera laser level, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Laser lines do not turn on.	Low battery, device in locked mode, or power button not pressed.	Charge the battery. Ensure the Lock/Unlock switch is in the 'Unlocked' position for self-leveling mode, or press the power button if in 'Locked' mode.
Laser lines are blinking rapidly in self-leveling mode.	Device is tilted beyond its self-leveling range (4°).	Place the device on a more level surface or adjust its position until the lines become steady.
Laser lines are dim or not visible outdoors.	Bright ambient light, or not in pulse mode.	Adjust brightness settings. Activate pulse mode and use an optional laser receiver for outdoor visibility.
Laser lines are not accurate.	Device not properly self-leveled, or out of calibration.	Ensure the device is within its self-leveling range. If accuracy issues persist, contact customer support for calibration assistance.
Device does not charge.	Faulty cable, power adapter, or charging port.	Try a different Type-C cable and power adapter. Ensure the cable is securely connected. If the issue persists, contact customer support.

11. WARRANTY AND SUPPORT

Motovera products are designed for reliability and performance. For warranty information, technical support, or service inquiries, please refer to the contact details provided with your purchase or visit the official Motovera website. Please have your model number (LL) and purchase date available when contacting support.