TECCPO MTM350B

POPOMAN 3x360° Green Laser Level MTM350B User Manual

Model: MTM350B | Brand: TECCPO

1. Introduction

Thank you for choosing the POPOMAN 3x360° Green Laser Level MTM350B. This professional 3D self-leveling laser level is designed for various construction and DIY tasks, providing accurate horizontal and vertical lines. This manual provides essential information for safe and effective use of your device.



Image 1.1: The POPOMAN 3x360° Green Laser Level MTM350B and its included accessories, such as the battery, magnetic bracket, auxiliary support, and carrying case.

2. Safety Instructions

- **Laser Safety:** This product is a Class II laser device. Do not stare directly into the laser beam. Avoid direct eye exposure.
- **Operating Environment:** Use the device in a well-lit area. Avoid extreme temperatures and direct sunlight, which can affect laser visibility and accuracy.
- **Maintenance:** Do not attempt to disassemble or modify the device. Repairs should only be performed by authorized personnel.
- **Battery Safety:** Use only the specified rechargeable battery. Do not expose the battery to high temperatures or dispose of it in fire.

3. Product Components

The POPOMAN MTM350B laser level package includes the following items:

- 1 x POPOMAN 3D Laser Level

- 1 x 5200mAh Lithium Battery
- 1 x Magnetic Swivel Base
- 1 x Auxiliary Support
- 1 x Target Plate
- 1 x USB Type-C Charging Cable
- 1 x Charger
- 1 x Carrying Case
- 1 x User Manual



Image 3.1: All components included in the POPOMAN MTM350B laser level kit.

4. Setup

4.1 Battery Installation and Charging

1. Open the battery compartment cover on the device.
2. Insert the 5200mAh lithium battery, ensuring correct polarity.
3. Close the battery compartment cover.
4. To charge, connect the USB Type-C cable to the device and the charger. Plug the charger into a power outlet. The device can also be charged via a power bank or car charger. Direct charging allows operation even with the battery removed.



Image 4.1: The laser level can be charged using various methods, including a car charger, power bank, laptop, or standard AC adapter.

4.2 Mounting the Device

The laser level offers versatile mounting options:

- **Magnetic Swivel Base:** Attach the magnetic base to metallic surfaces. The laser level can then be mounted onto this base for adjustable positioning.
- **Auxiliary Support:** Use the auxiliary support for additional stability or specific mounting needs.
- **Tripod Mounting:** The device features a 1/4"-20 screw hole on its base, allowing it to be mounted on standard tripods.



Image 4.2: Various mounting accessories and their applications, including an adjustable clip, magnetic adsorption, and hanging buckle designs.

5. Operating Instructions

5.1 Power On/Off and Mode Selection

1. To power on, slide the pendulum lock switch to the unlocked position. The laser level will automatically enter self-leveling mode.
2. Press the power button to cycle through different laser line modes (e.g., horizontal, vertical, or combined).
3. To power off, slide the pendulum lock switch to the locked position.



Image 5.1: Key features of the laser level, including the laser on/off button, soft rubber casing, IP54 rating, USB charging port, rechargeable battery, pendulum lock, and 1/4"-20 screw hole.

5.2 Self-Leveling Mode

When the pendulum is unlocked, the device automatically self-levels within a range of ±4° ± 1°. If the device is outside this range, the laser lines will flash to indicate that it is not level. Adjust the device's position until the lines stop flashing and become stable.

5.3 Manual Mode

To use the device in manual mode, slide the pendulum lock switch to the locked position. This disables the self-leveling function, allowing you to project laser lines at any desired angle, such as for installing handrails or decorative elements.



Image 5.2: Illustration comparing the automatic self-leveling mode (left) and the manual mode for angled projections (right).

5.4 Laser Line Configurations

The MTM350B offers 3x360° laser lines, including one horizontal plane and two vertical planes. You can select from 5 different line modes to suit your specific task:

- Single Horizontal Line
- Single Vertical Line
- Two Vertical Lines (90° cross)
- Horizontal + One Vertical Line
- All Three 360° Lines (one horizontal, two vertical)



Image 5.3: Visual representation of the 5 different laser line modes available on the device, selectable by pressing the mode button.

5.5 Pulse Mode (Outdoor Use)

For outdoor applications or when using a laser receiver (not included), activate the pulse mode. This mode enhances the visibility of the green laser beam, which is already twice as bright as standard red lasers. Note that strong direct sunlight can still weaken the laser's energy and affect accuracy and range. For optimal outdoor performance, use a highly reflective target or a laser receiver.



Image 5.4: Examples of the laser level in use for various tasks, including floor installation, furniture setup, hanging pictures, and tiling.

6. Maintenance

6.1 Cleaning

The device has an IP54 rating, making it resistant to dust and splashes. To clean, wipe the exterior with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners. Keep the laser apertures clean and free of debris.

6.2 Battery Care

The 5200mAh lithium battery is designed for durability, retaining over 80% of its capacity after 500+ charge cycles. To prolong battery life, avoid fully discharging the battery frequently and store it partially charged if not in use for extended periods.

6.3 Storage

When not in use, store the laser level and its accessories in the provided carrying case. This protects the device from

dust, impacts, and environmental factors. Store in a dry place within the recommended storage temperature range of -20 to 70 °C.

7. Troubleshooting

- **Laser Lines Flashing:** If the laser lines are flashing in self-leveling mode, the device is outside its ±4° leveling range. Adjust its position until the lines become stable.
- **Poor Outdoor Visibility:** Strong sunlight can significantly reduce laser visibility. Use the pulse mode with a laser receiver or a highly reflective target plate. Consider working during overcast conditions or at dawn/dusk for better visibility.
- **Device Not Powering On:** Ensure the battery is correctly installed and charged. If operating via direct charge, ensure the power source is active.
- **Inaccurate Readings:** If the device has been dropped or subjected to significant impact, its calibration may be affected. Compare its readings with a known accurate level. If persistent inaccuracy occurs, contact customer support.

8. Specifications

Feature	Specification
Model Number	MTM350B
Laser Class	Class II, <1mW
Laser Color	Green
Working Range	45 meters
Accuracy	±3mm at 10 meters
Self-Leveling Range	±4°
Battery Type	Lithium-ion, 3.7V 5200mAh
Operating Time (3 lasers)	Up to 8 hours
IP Rating	IP54 (Dust and Splash Resistant)
Operating Temperature	-10 °C to 50 °C
Storage Temperature	-20 °C to 70 °C
Mounting Thread	1/4"-20
Dimensions (L x W x H)	12.1 x 8.9 x 0.1 cm
Weight	1.9 kg

9. Warranty and Support

9.1 Warranty Information

Manufacturer's warranty information is not explicitly detailed in the provided data. Please refer to the product packaging or contact TECCPO customer support for specific warranty terms and conditions.

9.2 Customer Support

For any questions, technical assistance, or support regarding your POPOMAN 3x360° Green Laser Level MTM350B, please refer to the contact information provided on the product packaging or visit the official TECCPO website. You can also reach out via the email address mentioned in your product documentation.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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