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> Alloyman 4x360° Self Leveling Green Line Laser Level with Tripod, Model JGY-002 User Manual

## Alloyman JGY-002

# Alloyman 4x360° Self Leveling Green Line Laser Level with Tripod, Model JGY-002 User Manual

Model: JGY-002

## 1. PRODUCT OVERVIEW

The Alloyman 4x360° Self Leveling Green Line Laser Level (Model JGY-002) is a precision tool designed for various leveling and alignment tasks in construction, renovation, and DIY projects. It features four 360° green laser lines, self-leveling capabilities, and comes with a tripod and essential accessories for versatile use.



**Figure 1.1:** Alloyman 4x360° Laser Level with included tripod, batteries, remote control, magnetic mount, Type-C charger, and target plate.

## 2. PACKAGE CONTENTS

Verify that all items are present in the package:

- 1 x Alloyman Laser Level Unit
- 1 x Tripod (37.5-inch)
- 2 x Li-ion Batteries (4.0V)
- 1 x Remote Control (requires 2 AAA batteries, included)
- 1 x 360° Magnetic Swivel Stand
- 1 x Type-C Charger
- 1 x Target Plate
- 1 x User Manual (this document)

# PRODUCT LIST



- GIFT BOX
- TARGET PLATE
- TYPE-C CHARGER
- REMOTE CONTROL
- 2×LITHIUM BATTERIES
- 360° MAGNETIC BRACKET

Figure 2.1: Visual representation of all items included in the package.

## 3. SETUP INSTRUCTIONS

### 3.1 Battery Installation and Charging

1. **Laser Level Batteries:** Insert the two 4.0V Li-ion batteries into the designated battery compartments on the laser level unit. Ensure correct polarity.
2. **Remote Control Batteries:** Open the battery compartment on the remote control and insert the two AAA batteries.
3. **Charging:** Connect the Type-C charger to the laser level unit and a power source to charge the Li-ion batteries. The battery indicator on the unit will show charging status. A full charge provides up to 12 hours of continuous operation.

# WORKING TIME MORE THAN 12H

## 2\*3600MAH HIGH CAPACITY



Figure 3.1: Laser level unit connected to its Type-C charger, illustrating the charging process and battery capacity.

### 3.2 Tripod Assembly and Adjustment

1. Unfold the tripod legs and extend them to the desired height. Use the adjustment buckles on each leg to secure them.
2. Adjust the neck extension locking mechanism to fine-tune the height.
3. The rotary rocker allows for precise horizontal and vertical adjustments of the mounted laser level.
4. Ensure the non-skid rubber feet are firmly placed on the surface for stability.



Figure 3.2: Detailed view of the tripod's adjustable features and components.

### 3.3 Mounting the Laser Level

- **On Tripod:** The laser level features a 1/4"-20 thread compatible with most tripods. Securely screw the laser level onto the tripod head.
- **Magnetic Mount:** Attach the 360° magnetic swivel stand to the back of the laser level. This allows the unit to be fixed to metal surfaces or to planks/walls using an iron sheet.

# 2-IN-1 ACCESSORY FIXING

EASY TO INSTALL AND USE



Figure 3.3: Demonstrates mounting options for the laser level using a tripod and a magnetic swivel stand.

## 4. OPERATING INSTRUCTIONS

### 4.1 Power On/Off

Slide the ON/OFF switch located on the side of the unit to power on or power off the laser level.

### 4.2 Self-Leveling Mode

- When the unit is powered on and the pendulum is unlocked, the laser level will automatically enter self-leveling mode.
- The unit will self-level within a range of  $\pm 3^\circ$ .
- If the surface tilt exceeds  $3^\circ$ , the laser lines will flash and the unit will emit a beeping sound to indicate it is out of level. Adjust the position of the laser level until it is within the self-leveling range.



Figure 4.1: The laser level operating in self-leveling mode, projecting horizontal and vertical lines.

### 4.3 Manual Mode

- To activate manual mode, long-press the mode switch button (M) on the unit or the remote control.
- In manual mode, the self-leveling function is deactivated, allowing the laser lines to be projected at any desired angle. This is useful for tasks like installing handrails on stairs.

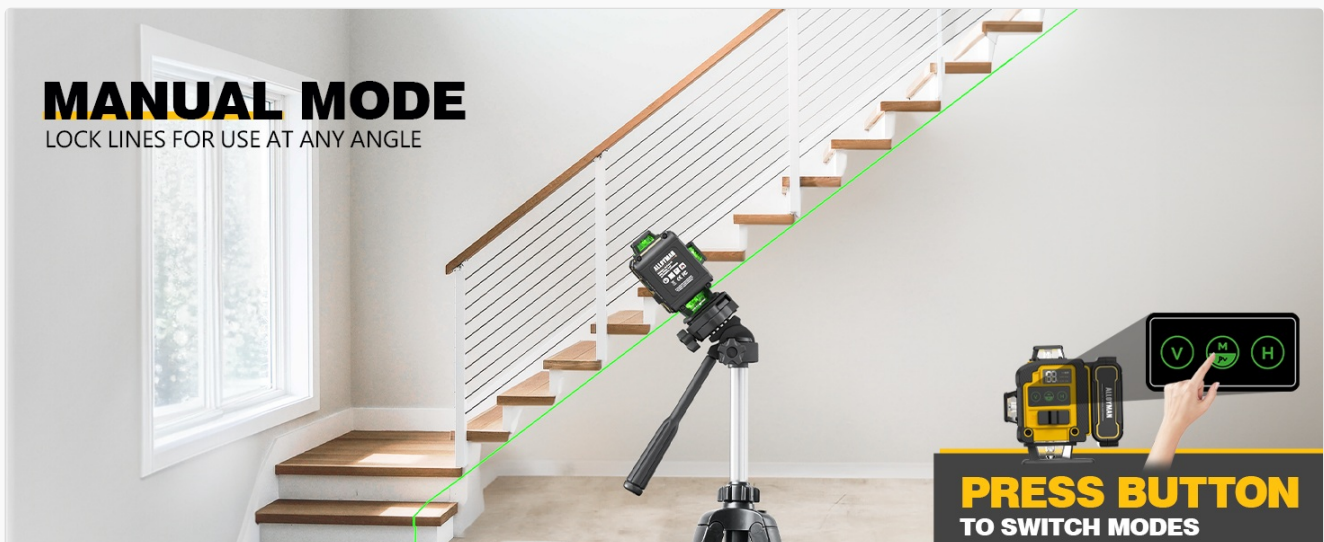


Figure 4.2: Laser level in manual mode, projecting an angled line for specific applications.

### 4.4 Switching Laser Lines

The laser level features four 360° laser lines (two horizontal, two vertical). Use the 'V' (Vertical) and 'H' (Horizontal) buttons on the unit or remote control to cycle through different line combinations:

- Press 'V' to activate/deactivate vertical lines.
- Press 'H' to activate/deactivate horizontal lines.
- Various combinations are possible, including H+H (two horizontal), V+V (two vertical), V+V+H (two vertical and one horizontal), and V+V+H+H (all four lines).

# 4 X 360° LASER BEAMS

## 8 LINES SWITCHING MODES



Figure 4.3: Illustration of the laser line switching modes and their projected patterns.

### 4.5 Remote Control Operation and Extended Working Range

The included remote control allows for convenient operation of the laser level from a distance. This is particularly useful when working in large areas or when the unit is mounted in an inaccessible location. The laser level has an extended working range diameter of up to 150 feet.



Figure 4.4: Remote control in use, demonstrating the extended working range of the laser level.

## 4.6 Applications

The Alloyman laser level is suitable for a variety of tasks requiring precise alignment:

- Tile installation
- Picture hanging
- Shelf installation
- Interior finishing
- Cabinet installation
- Stair railing alignment



Figure 4.5: Examples of common applications for the laser level.

## 5. MAINTENANCE

- **Cleaning:** Regularly wipe the laser level and its components with a soft, dry cloth. Do not use abrasive cleaners or solvents. Keep the laser apertures clean to ensure clear projection.
- **Battery Care:** Charge the Li-ion batteries fully before long-term storage. If storing for extended periods, recharge them every 3-6 months to maintain battery health.
- **Storage:** Store the laser level and accessories in a dry, dust-free environment, away from direct sunlight and extreme temperatures.
- **Calibration:** While the unit is self-leveling, periodic checks against known level surfaces are recommended for critical applications to ensure continued accuracy.

## 6. TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Laser lines are flashing and beeping.	The laser level is outside its self-leveling range (tilted more than $\pm 3^\circ$ ).	Adjust the position of the laser level or the tripod until it is on a surface within the $\pm 3^\circ$ self-leveling range.
Laser lines are dim or not visible.	Low battery. Bright ambient light. Dirty laser apertures.	Charge the batteries. Use the target plate to enhance visibility. Clean the laser apertures.
Unit does not power on.	Batteries are depleted or incorrectly installed. Power switch is off.	Ensure batteries are charged and correctly inserted. Slide the ON/OFF switch to the 'ON' position.
Remote control not working.	AAA batteries are depleted or incorrectly installed. Obstruction between remote and unit.	Replace AAA batteries in the remote. Ensure clear line of sight to the laser level.

## 7. SPECIFICATIONS

Feature	Detail
Model Number	JGY-002
Laser Class	Class II
Laser Lines	4 x 360° Green Laser Beams (16 Lines)
Horizontal/Vertical Accuracy	$\pm 1\text{mm}/5\text{m}$
Self-Leveling Range	$\pm 3^\circ$
Working Range Diameter	Up to 150 ft (with remote control)
Power Source	2 x 4.0V Lithium Batteries
Battery Life	Up to 12 hours continuous operation
Charging Port	Type-C
IP Rating	IP54 (Waterproof and Dustproof)
Operating Temperature	-20°C to +50°C (-4°F to +122°F)
Material	Metal, Plastic
Item Weight	4.71 pounds (unit only, approximate)
Tripod Height	Adjustable up to 37.5 inches



Figure 7.1: Summary of key product specifications and features.

## 8. WARRANTY AND SUPPORT

The Alloyman 4x360° Self Leveling Green Line Laser Level (Model JGY-002) is backed by a **12-month warranty** from the date of purchase. This warranty covers manufacturing defects and ensures the product meets its specified performance standards under normal use.

For technical support, warranty claims, or any inquiries regarding your product, please contact Alloyman customer service. Refer to the contact information provided on the product packaging or visit the official Alloyman brand store for assistance.

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