**CIGMAN CM-S01**

# CIGMAN CM-S01 3x360° Green Laser Level User Manual

Model: CM-S01

## 1. INTRODUCTION

The CIGMAN CM-S01 is a versatile 3x360° green laser level designed for various construction and alignment tasks. It projects one 360° horizontal line and two 360° vertical lines, providing comprehensive coverage for walls, ceilings, and floors. This device features self-leveling capabilities, manual mode, pulse mode, and can be controlled via a dedicated smartphone application or remote control for enhanced convenience and precision.

## 2. SAFETY INSTRUCTIONS

Please read and understand all safety instructions before operating the device. Failure to follow these instructions may result in laser radiation exposure, electric shock, fire, or serious injury.

- **Laser Radiation:** This product is a Class II laser product. Do not stare directly into the laser beam. Avoid direct eye exposure to the laser.
- **Power Source:** Use only the specified charging cable and power adapter. Do not attempt to modify the battery or charging system.
- **Operating Environment:** Do not operate the laser level in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.
- **Maintenance:** Do not attempt to disassemble or repair the device yourself. Refer all servicing to qualified service personnel.
- **Children:** Keep the device out of reach of children.

## 3. PACKAGE CONTENTS

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

- 1x CIGMAN CM-S01 Laser Level Tool
- 1x Portable Bag
- 1x Type-C Charging Cable
- 1x User Manual

- 1x Laser Target Plate
- 1x Mini Tripod Base
- 1x Magnetic "L" Base



**Smart Power Display**

Adjusts Brightness According to Remaining Battery Level

Image 3.1: The CIGMAN CM-S01 laser level with its complete set of accessories, including the portable bag, Type-C cable, user manual, laser target plate, mini tripod base, and magnetic L-base.

## 4. PRODUCT OVERVIEW

The CM-S01 laser level features a robust design with multiple laser emitters for 360-degree coverage. It includes control

buttons on the top panel for manual operation and a pendulum lock mechanism for transport and manual mode.



Image 4.1: The CIGMAN CM-S01 laser level, showcasing its three 360-degree green laser lines and the various included accessories.

## 5. Setup

1. **Unpack:** Carefully remove the laser level and all accessories from the portable bag.

2. **Charging:** Before first use, ensure the device is fully charged using the provided Type-C cable. Refer to the 'Battery & Charging' section for details.

3. **Placement:** Place the laser level on a stable surface or mount it using the mini tripod base or magnetic L-base. Ensure the surface is as level as possible to assist the self-leveling function.

4. **Power On:** Slide the pendulum lock switch to the unlocked position to power on the device and activate self-leveling mode.

## 6. Operating Modes

### 6.1 Self-Leveling Mode

When the pendulum is unlocked, the laser level will automatically self-level within a 4° range. If the device is outside this

range, the laser lines will flash continuously to indicate it is out of level. Adjust the position of the device until the laser lines become stable.

## 6.2 Manual Mode

To activate manual mode, slide the pendulum lock switch to the locked position. In this mode, the laser lines are locked and can be projected at any desired angle. This is useful for tasks that require angled lines, such as installing handrails or decorative patterns.

## 6.3 Pulse Mode

Press the pulse mode button on the device or activate it via the CIGMAN APP to enter external pulse mode. This mode extends the laser's working range up to 164 feet (50 meters) when used with an optional laser receiver (e.g., CIGMAN CLD-100). Pulse mode is particularly useful for outdoor applications or in brightly lit environments where the laser lines might be difficult to see with the naked eye.

# Pulse Mode

CM-S01 has a visible working range of up to **30 meters** and an extended working range of up to **50 meters** using the optional CLD-100 receiver



Image 6.1: Top image illustrates the self-leveling mode, where the laser automatically adjusts to project level lines. Bottom image shows the manual mode, allowing the projection of angled lines.

Image 6.2: The laser level projecting lines over a long distance, demonstrating the extended range achieved in pulse mode with an external receiver.

## 7. APP CONTROL & BLUETOOTH

The CIGMAN CM-S01 can be controlled remotely via the CIGMAN smartphone application using Bluetooth technology. This allows for convenient adjustment of settings from a distance.

1. **Download App:** Download the CIGMAN APP from the App Store (iOS) or Google Play Store (Android).
2. **Enable Bluetooth:** Ensure Bluetooth is enabled on your smartphone.

3. **Connect:** Open the CIGMAN APP and follow the on-screen instructions to connect to your CM-S01 laser level.

4. **Control Functions:** From the app, you can:
   - Individually select horizontal (H) and vertical (V) laser planes.
   - Turn pulse mode on/off.
   - Adjust laser brightness (4 levels).
   - Monitor battery level.



Image 7.1: The CIGMAN CM-S01 laser level mounted on a wall bracket, being controlled wirelessly via the CIGMAN smartphone application.
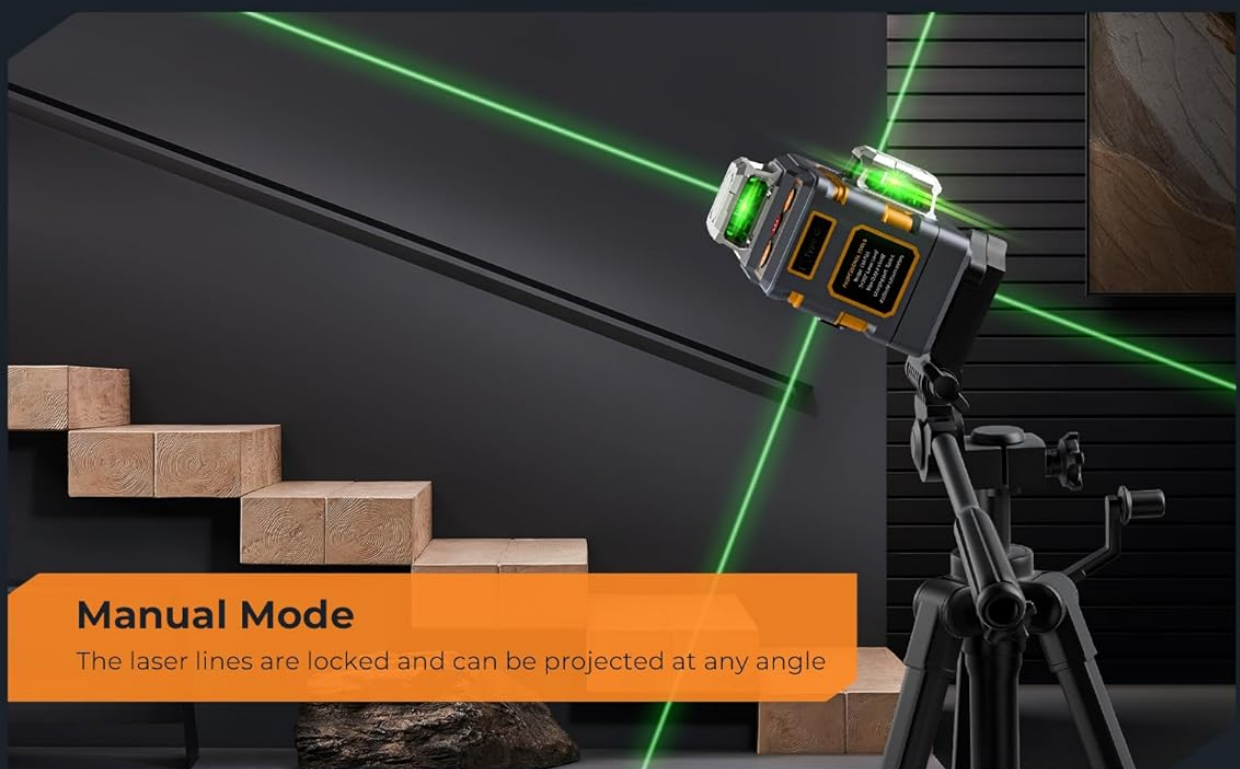
Image 7.2: The CIGMAN APP interface showing various line switching modes, allowing users to select different laser line combinations.

Self-leveling Mode
Automatically calibrated within ±4°

Manual Mode
The laser lines are locked and can be projected at any angle

Image 7.3: The CIGMAN APP displaying the current battery level and options for adjusting the laser brightness.

## 8. BATTERY & CHARGING

The CM-S01 is equipped with an integrated 4000mAh rechargeable Lithium-Ion battery.

- **Battery Life:** The battery provides up to 12 hours of continuous operation at maximum light intensity and up to 56 hours at minimum intensity on a full charge.
- **Charging:** Use the provided Type-C cable to charge the device. Connect the cable to the Type-C port on the laser level and to a compatible USB power source.

- **Charging Indicator:** The device will indicate charging status, and the CIGMAN APP can display the current battery level.



Image 8.1: The CIGMAN CM-S01 laser level being charged via its Type-C port, highlighting the rechargeable battery feature.
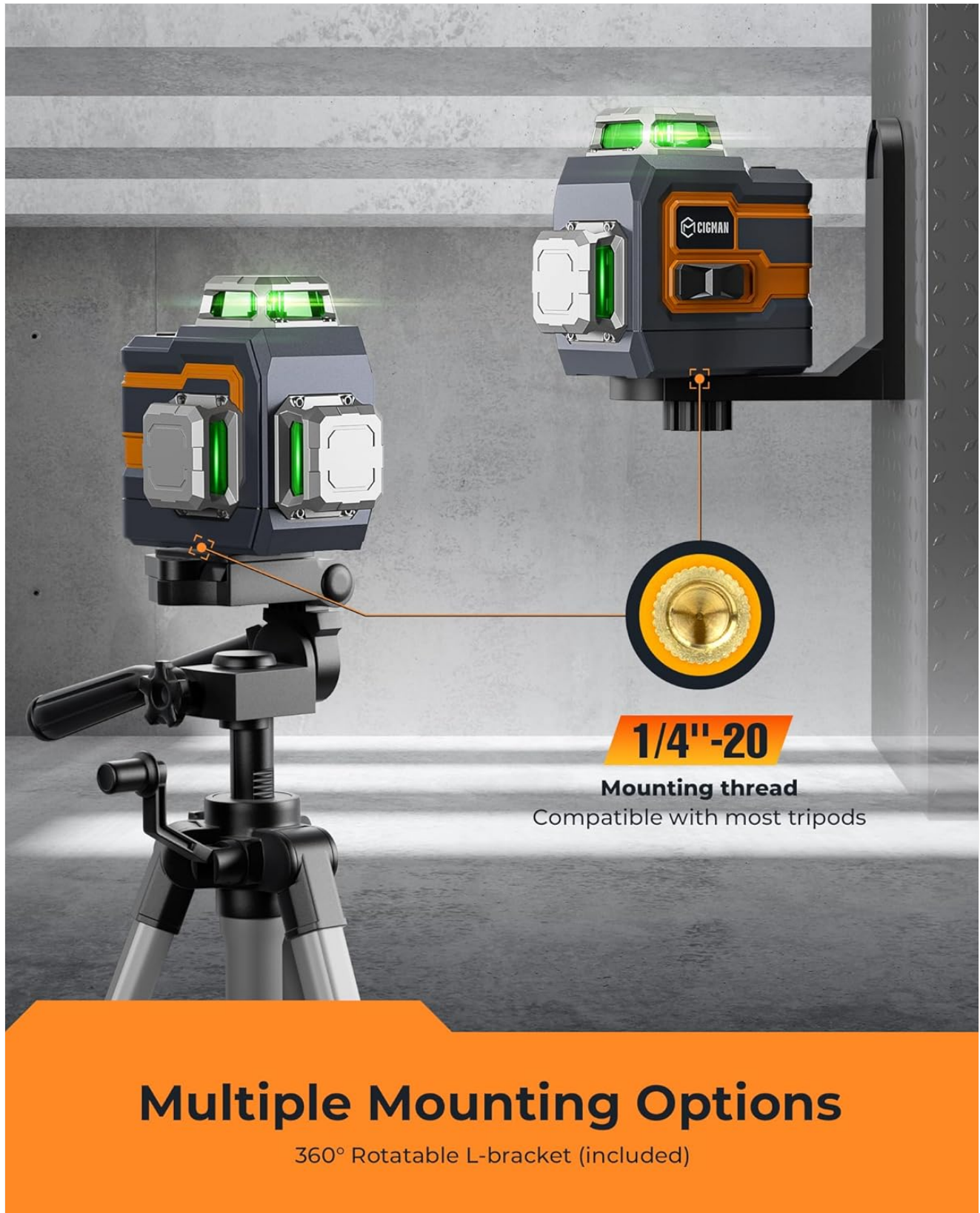
## 9. MOUNTING OPTIONS

The CM-S01 offers flexible mounting options for various applications:

- **Mini Tripod Base:** Use the included mini tripod base for stable placement on flat surfaces.
- **Magnetic "L" Base:** The magnetic L-base allows for attachment to metal surfaces and offers 360° rotation for easy

angle adjustment.

- **Standard Tripod/Pole Mounting:** The device features a 1/4"-20 thread, making it compatible with most standard tripods or telescopic poles.



Image 9.1: Two CIGMAN CM-S01 laser levels demonstrating different mounting options: one on a standard tripod and another on the magnetic L-bracket, highlighting the 1/4"-20 mounting thread.

## 10. MAINTENANCE

- **Cleaning:** Clean the laser level with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Storage:** When not in use, store the device in its portable bag in a dry, cool place. Ensure the pendulum lock is

engaged during storage and transport to prevent damage.

- **Battery Care:** For long-term storage, charge the battery to approximately 50% every three months to maintain battery health.
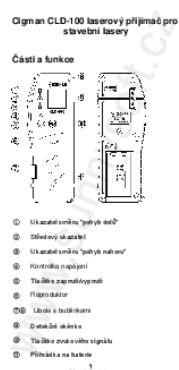
## 11. TROUBLESHOOTING

| Problem | Possible Cause | Solution |
| --- | --- | --- |
| Laser lines are flashing | Device is out of its self-leveling range (>4°) | Place the device on a more level surface until the lines stabilize. |
| Laser does not turn on | Battery is depleted or pendulum is locked | Charge the battery. Ensure the pendulum lock switch is in the unlocked position. |
| Cannot connect to APP | Bluetooth is off or device is too far | Ensure Bluetooth is enabled on your phone. Move closer to the laser level. Restart the app and device. |
| Laser lines are dim | Brightness setting is low or operating in bright conditions | Adjust brightness via the app or device buttons. Use pulse mode with a receiver for outdoor/bright conditions. |

## 12. SPECIFICATIONS

- **Model:** CM-S01
- **Laser Class:** Class II, <1mW power output
- **Laser Color:** Green
- **Laser Configuration:** One 360° Horizontal, Two 360° Vertical
- **Accuracy:** ±1/9 inch at 33 feet (±2.5mm at 10m)
- **Self-Leveling Range:** ±4°
- **Operating Range:** Up to 98.4 feet (30 meters)
- **Operating Range (with Receiver in Pulse Mode):** Up to 164 feet (50 meters)
- **Battery:** Integrated 4000mAh Lithium-Ion
- **Battery Life:** Up to 12 hours (max intensity), up to 56 hours (min intensity)
- **Charging Port:** Type-C
- **Mounting Thread:** 1/4"-20
- **Dimensions:** 3.94 x 2.95 x 0.04 inches (approximate)
- **Weight:** 2.64 pounds (approximate)

## 13. WARRANTY & SUPPORT

CIGMAN provides a 36-month warranty for the CM-S01 laser level. For any concerns, technical assistance, or warranty claims, please contact CIGMAN customer support. Refer to the contact information provided in your product packaging or on the official CIGMAN website.

**Related Documents - CM-S01**

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|---|---|
|  | **[CIGMAN CM-701 Laser Level User Manual](#)**<br>Comprehensive user manual for the CIGMAN CM-701 Laser Level, covering safety notes, intended use, operation modes, specifications, troubleshooting, maintenance, and warranty information. |
|  | **[CIGMAN CM-720SE Laser Level User Manual](#)**<br>User manual for the CIGMAN CM-720SE Laser Level. This guide covers safety, operation, product overview, specifications, and maintenance for the self-leveling laser tool with 2 x 360° green cross lines, suitable for construction, picture hanging, and decoration. |
|  | **[Cigman CLD-100 Laser Receiver for Construction Lasers - Operation and Specifications](#)**<br>User manual and technical specifications for the Cigman CLD-100 laser receiver, designed for use with construction lasers. Learn about its parts, how to operate it, and its key features. |
|  | **[KVANT Clubmax 2000 Operational Manual - Laser Display System](#)**<br>This operational manual provides detailed information on the KVANT Clubmax 2000 laser display system, covering its features, safe operation, installation, maintenance, and technical specifications. Essential reading for users of this professional laser equipment. |
|  | **[KVANT Clubmax FB4 Series: Model Specific Operational Manual](#)**<br>Comprehensive operational manual for the KVANT Clubmax FB4 series laser display systems, covering installation, operation, safety, maintenance, and technical specifications for models like CM-3000 FB4, CM-6500 FB4, CM-10 FB4, CM-24 FB4, and CM-40 FB4. |
|  | **[SOLA Digital Levels with Bluetooth: User Manual](#)**<br>Comprehensive user manual for SOLA (BIG) RED DIGITAL, (BIG) REDM DIGITAL, and RED LASER DIGITAL levels with Bluetooth. Covers features, operation, safety, maintenance, and troubleshooting. |