

Huepar 703CG-TR

Huepar 703CG-TR 3x360° Laser Level Instruction Manual

Model: 703CG-TR | Brand: Huepar

1. INTRODUCTION

This manual provides detailed instructions for the safe and effective operation of your Huepar 703CG-TR 3x360° Laser Level. Please read this manual thoroughly before using the device to ensure proper functionality and to prevent potential hazards. Keep this manual for future reference.

The Huepar 703CG-TR is an advanced 3x360° laser level featuring self-leveling capabilities, an auto-tracking motorized base, and a dual-purpose remote control receiver. It is designed for precise leveling tasks in various indoor and outdoor construction and renovation projects.

2. SAFETY INSTRUCTIONS

WARNING: Read and understand all instructions. Failure to follow all instructions listed below may result in electric shock, fire, and/or serious personal injury.

- **Laser Radiation:** This product emits laser radiation. Avoid direct eye exposure to the laser beam. Do not stare into the laser beam.
- Do not disassemble the laser level. Repairs should only be performed by authorized service personnel.
- Do not operate the laser level in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.
- Keep the laser level out of reach of children.
- Use only the specified batteries and charging accessories.
- Ensure the device is stable before operation to prevent accidental movement.

3. PACKAGE CONTENTS

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

- 1x Huepar 703CG-TR Laser Level

- 1x 5200mAh Li-ion Battery (6600mAh Li-ion Battery mentioned in specifications, please verify actual capacity)
- 1x Type-C Cord
- 1x LRXG Auto Laser Receiver (with Remote Control functionality)
- 1x 5V/2A Adapter & USB Cable
- 1x Receiver Clamp
- 1x Hard Carry Case
- 1x Integrate Magnetic Bracket
- 1x Laser Target Plate
- 4x AAA Batteries (for receiver)
- 1x User Manual (this document)

HUEPAR®

**Engineered to Last
– Backed by 5-Year Support**



- 1 × 703CG-TR Laser Level with Motorized Magnetic Bracket
- 1 × 5.2Ah Li-ion Battery (USB Output for Phone Charging)
- 1 × LRXG Receiver (with Remote Control)
- 1 × 5V/2A Adapter & USB Cable
- 1 × Receiver Clamp
- 1 × Laser Target
- 4 × AAA Batteries
- 1 × Carrying Case
- 1 × User Manual



Support Notice

The 5-year support applies to the main laser level device only. Accessories such as the battery, charger, receiver, and mounting brackets are not covered under the extended support.

Image 3.1: Contents of the Huepar 703CG-TR Laser Level package.

4. PRODUCT FEATURES

- **Auto-Tracking Motorized Base:** Allows for precise, remote adjustment of laser lines, keeping the cross point fixed while lines move. Ideal for one-person operation and fine alignment.
- **3x360° Laser Lines:** Projects three full 360° laser planes (one horizontal, two vertical) for comprehensive coverage.
- **Self-Leveling Mode:** Automatically levels within $\pm 3^\circ$ for quick and accurate setup.
- **Manual Mode:** Enables locking the pendulum for projecting lines at any angle.
- **Outdoor Pulse Mode:** Extends working distance up to 165ft (50m) with the included LRXG receiver for bright outdoor conditions.
- **High Precision:** Achieves an accuracy of $\pm 1/13$ inch at 33 ft (± 2 mm at 10m).
- **Adjustable Brightness:** Three brightness levels (30%, 60%, 100%) to optimize visibility and battery life.
- **Dual-Purpose LRXG Receiver:** Functions as both a laser line detector and a remote controller for the auto-tracking feature.
- **Rechargeable Li-ion Battery:** 5200mAh battery provides up to 8 hours of continuous runtime and doubles as a power bank via USB output.
- **Dual Thread Mounting:** Equipped with 1/4" and 5/8" threads for compatibility with various tripods and mounts.
- **IP54 Rating:** Dustproof and waterproof for reliable performance in challenging work environments.

5. SETUP

5.1 Battery Installation

1. Open the battery compartment cover on the laser level.
2. Insert the 5200mAh Li-ion battery, ensuring correct polarity.
3. Close the battery compartment cover securely.
4. For the LRXG receiver, open its battery compartment and insert the 4x AAA batteries, observing polarity.

5.2 Charging the Battery

Connect the Type-C cord to the laser level's charging port and the other end to the 5V/2A adapter. Plug the adapter into a power outlet. The charging indicator will show the battery status. The laser level can also be used while charging.



Image 5.1: The 5200mAh Li-ion battery provides up to 8 hours of runtime and can charge other devices.

5.3 Mounting the Laser Level

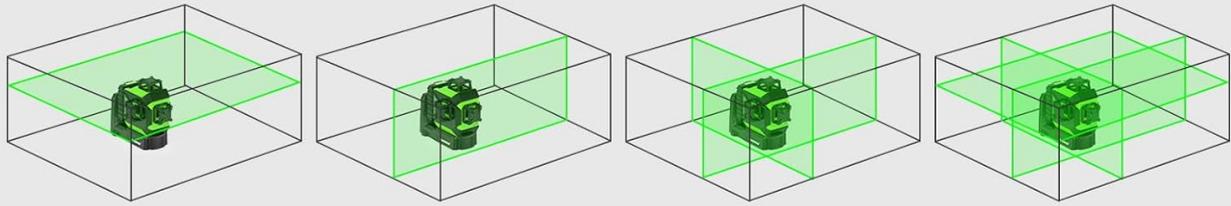
The laser level can be mounted using its integrated magnetic bracket or by attaching it to a tripod via the 1/4" or 5/8" mounting threads.

- **Magnetic Bracket:** Attach the magnetic bracket to metallic surfaces for secure positioning.
- **Tripod Mounting:** Screw the laser level onto a compatible tripod using the appropriate thread.



Switchable Line Modes

Choose Lines You Need – Nothing You Don't



Dual Thread Mounting – 1/4" & 5/8" Built-In

Works with Your Existing Gear – Plug & Play



Image 5.2: The laser level features dual 1/4" and 5/8" mounting threads for versatile setup.

6. OPERATING MODES

6.1 Power On/Off

Slide the power switch to the 'ON' position to power on the device. Slide to 'OFF' to power off.

6.2 Self-Leveling Mode

When the power switch is in the 'ON' position, the laser level enters self-leveling mode. The device will automatically level itself within a $\pm 3^\circ$ range. If the device is tilted beyond this range, the laser lines will flash rapidly and an audible alarm will sound, indicating that it is out of level. Reposition the device on a flatter surface until it self-levels.

6.3 Manual Mode

To activate manual mode, slide the power switch to the 'OFF' position. In this mode, the pendulum is locked, allowing you to project laser lines at any desired angle. The laser lines will flash every 5 seconds to remind you that self-leveling is off. This mode is ideal for angled layouts such as stairs or diagonal installations.

Automatic Alignment & Receiver

Pivot-Around-Point Fine Adjustment is ideal for alignment work in partitioning and stud framing during renovation projects.

Adjustable Angle: 16°

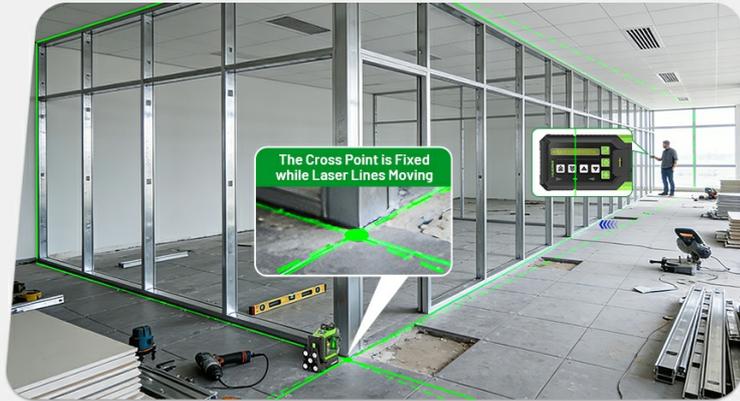


Image 6.1: Self-Leveling Mode automatically provides a horizontal reference. Manual Mode allows for angled layouts.

6.4 Pulse Mode (Outdoor Use)

Activate Pulse Mode for use with the LRXG laser receiver in bright outdoor conditions or over longer distances. This mode extends the working range up to 165ft (50m). The LRXG receiver is dual-purpose, also functioning as a remote control.



Pulse Mode

Activate Pulse Mode for 50m long-distance detection

The included LRXG Receiver isn't just for detecting laser lines outdoors – it also works as a remote control, letting you activate the auto-tracking and eccentric rotation features from a distance.



Image 6.2: Pulse Mode allows for extended range and outdoor visibility with the LRXG receiver.

6.5 Auto-Tracking Motorized Base & Remote Control

The auto-tracking feature, combined with the LRXG receiver's remote control function, allows for precise fine adjustment of the laser lines without physically touching the device. This is particularly useful for one-person operations and maintaining a fixed cross-point reference.

1. Ensure the laser level is in Self-Leveling Mode.
2. Press the 'Auto Align' button on the LRXG receiver.
3. The motorized base will begin rotating counter-clockwise, sweeping through a 16° range. During this process, the LED on the power button will blink slowly, accompanied by a slow "beep-beep" sound, indicating calibration is in progress.
4. Once the sound stops, it means the receiver has detected the laser and the beam is aligned to the center. Calibration is complete, and the LED will remain solid (steady on).

Notes & Warnings for Auto-Alignment:

- Auto eccentric rotation only works in Self-Leveling Mode. It is not available in Manual Mode.
- Avoid reflective surfaces like glass during auto alignment, as stray light may interfere with calibration.
- If the device is bumped or moved during auto alignment, a collision alert will be triggered. The laser will flash three times, and the system will automatically exit auto alignment mode and return to the previous mode.

**Up to 8 Hours
Continuous Runtime**

Comes with 3.7v 5200mAh Li-ion Battery



5200mAh
3.7v 5200mAh Li-ion Battery



Doubles as a Power Bank
Keeps your tools and tech powered up



Image 6.3: The auto-alignment feature allows for precise, remote adjustment of laser lines.

**Brightness Control
– Dim or Brighten Laser as Needed**

 Optimize for Visibility or Battery Life, Set the Right Beam for Any Environment



±1/13 in. at 33ft (±2mm at 10m) High Accuracy



30%



60%



100%



Image 6.4: The LRXG receiver serves as both a laser detector and a remote control for the laser level.

7. BRIGHTNESS CONTROL

The Huepar 703CG-TR offers three brightness levels (30%, 60%, 100%) to adapt to different working environments. Adjust the brightness to optimize visibility in bright conditions or to conserve battery life indoors.

Self-Leveling Mode

Automatically provides a horizontal reference when placed within $\pm 3.5^\circ$. If tilted beyond this range, the laser will flash and beep to prompt repositioning.

Note: Auto eccentric rotation can only be activated in self-leveling mode.



Manual Mode

Ideal for angled layouts, such as stairs or diagonals. In this mode, the laser flashes every 5 seconds to remind you that self-leveling is off and the beam is no longer providing a level reference.

Note: Starts in Manual Mode by Default.

Image 7.1: Adjust laser brightness for optimal visibility and battery efficiency.

8. MAINTENANCE

- **Cleaning:** Keep the laser level clean and free of dust and debris. Use a soft, damp cloth to wipe the exterior. Do not use harsh chemicals or abrasive cleaners.
- **Storage:** When not in use, store the laser level in its hard carry case in a dry, cool place, away from direct sunlight and extreme temperatures.
- **Battery Care:** For long-term storage, ensure the Li-ion battery is partially charged (around 50%) and remove it from the device if storing for extended periods. Recharge the battery periodically to maintain its health.
- **Calibration Check:** Periodically check the calibration of your laser level to ensure continued accuracy. Refer to the user manual for specific calibration procedures if needed.

9. TROUBLESHOOTING

Problem	Possible Cause	Solution
Laser lines are dim or not visible.	Low battery; Bright ambient light; Pulse mode not activated with receiver.	Charge the battery; Adjust brightness to 100%; Activate Pulse Mode and use with LRXG receiver.
Laser lines are flashing rapidly and/or alarm sounds.	Device is out of self-leveling range (tilted more than $\pm 3^\circ$).	Reposition the laser level on a flatter, more stable surface.
Laser lines are not level in Manual Mode.	This is expected behavior in Manual Mode, which is for angled projection.	Switch to Self-Leveling Mode if a level reference is required.
Auto-alignment not working or inaccurate.	Not in Self-Leveling Mode; Interference from reflective surfaces; Device moved during alignment.	Ensure Self-Leveling Mode is active; Avoid reflective surfaces; Ensure device is stable during alignment.

Problem	Possible Cause	Solution
Receiver not detecting laser lines.	Receiver batteries low; Not in Pulse Mode; Receiver too far or misaligned.	Replace receiver batteries; Activate Pulse Mode on laser level; Ensure receiver is within range and aligned with laser.

10. SPECIFICATIONS

Feature	Specification
Model Number	703CG-TR
Laser Class	Class 2 (IEC/EN60825-1/2014), <1mW
Laser Wavelength	505-520nm (Green Laser)
Leveling Accuracy	±1/13 inch at 33 ft (±2mm at 10m)
Self-Leveling Range	±3°
Working Range (Line)	85 ft (25m)
Working Range (with Receiver)	165 ft (50m)
Operation Mode	Manual / Self-Leveling / Pulse Mode
Power Source	5200mAh Li-ion Battery (3.7V)
Continuous Runtime	Up to 8 hours
Mount Size	1/4"-20 and 5/8"-11
IP Rating	IP54 (Waterproof & Dustproof)
Operating Temperature	Not specified, typically -10°C to 50°C
Storage Temperature	Not specified, typically -20°C to 70°C
Item Weight	2.98 kg
Parcel Dimensions	36.5 x 29.7 x 14.7 cm

11. WARRANTY AND SUPPORT

Huepar offers a comprehensive warranty and support program for the 703CG-TR Laser Level:

- **5-Year Warranty:** Applies to the main laser level device.
- **Year 1:** Free full set replacement (device, battery, and accessories).
- **Years 2-5:** Free refurbished or equivalent unit for non-repairable devices.
- **Battery & Accessories:** 2-Year coverage for non-human damage.
- **Lifetime Technical Support:** Access to a 24/7 support team for quick and reliable solutions.
- **Global Repair Centers:** Fast repair services available.

For warranty claims or technical assistance, please contact Huepar customer support through their official website or the contact information provided with your purchase.



Image 11.1: Huepar provides 5-year support for the main laser level device.

12. PRODUCT VIDEOS

12.1 Huepar Laser Level Overview

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Video 12.1: A detailed overview of the Huepar laser level's features and operation. (Duration: 5:47)

12.2 Advanced Features Demonstration

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Video 12.2: Demonstration of advanced features such as auto-tracking and remote control functionality. (Duration: 5:59)