

Huepar S04CG

Huepar S04CG 4D Laser Level with 12 Ft. Laser Pole User Manual

1. IMPORTANT SAFETY INFORMATION

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

- **Laser Radiation:** This product emits laser radiation. Do not stare directly into the laser beam. Avoid direct eye exposure.
- **Class II Laser Product:** This device is a Class II laser product.
- **Operating Environment:** Use the laser level in a well-lit area. Ensure the work area is clear of obstructions and potential hazards.
- **Children and Unauthorized Persons:** Keep the device out of reach of children and unauthorized persons.
- **Maintenance:** Do not attempt to modify or disassemble the laser level. Repairs should only be performed by authorized service personnel.
- **Battery Safety:** Use only specified batteries and charging methods. Do not expose batteries to extreme temperatures or dispose of them in fire.

2. PRODUCT OVERVIEW

The Huepar S04CG is a 4D (four 360-degree planes) self-leveling laser level designed for various construction and alignment tasks. It features green laser lines for enhanced visibility and comes with a professional 12 Ft. (3.7M) telescoping laser pole for versatile mounting options.

Key Features

- **4 x 360° Laser Planes:** One top horizontal, one bottom horizontal (1/2 inch ultra-low distance), and two vertical lines intersecting at 90°.
- **LCD Screen:** Displays battery status, tilt angle, pendulum lock status, and pulse mode.
- **Bluetooth APP & Remote Control:** Control laser lines, pulse mode, and receive out-of-level alarms via smartphone app or remote.
- **Self-Leveling Mode:** Automatic leveling within $\pm 3.5^\circ$ range with out-of-level alarm.
- **Manual Mode:** Lock laser lines at any angle for sloped applications.

- **Pulse Mode:** Extends working range up to 200 Ft. with an optional Huepar Laser Receiver (LR-6RG/LR-5RG).
- **Multiple Power Methods:** 7.4V/2600mAh Li-ion battery, 4xAA batteries (with holder), and direct Type-C input charging.
- **Magnetic Bracket:** Strong magnetic bracket for quick attachment to metal surfaces, with 1/4"-20 and 5/8"-11 female threads.
- **Durable Design:** IP54 water/dust proof rating for tough job site conditions.
- **12 Ft. (3.7M) Telescoping Laser Pole:** Offers adjustable height for various applications.



Figure 1: Overview of the Huepar S04CG 4D Laser Level and its main features including LED display, Bluetooth smart control, remote control, 90° cross, self-leveling, pulse mode, manual mode, and IP54 rating.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- Huepar S04CG 4D Laser Level
- LP36A 12 Ft. (3.7M) Telescoping Laser Pole
- Magnetic Pivoting Base
- Lifting Base
- Rechargeable Li-ion Battery
- AA Battery Holder
- Type-C Power Adapter/Cable
- Remote Control
- Hard Carry Case
- User Manual

4. SETUP

4.1 Battery Installation and Charging

The S04CG laser level can be powered by a rechargeable Li-ion battery, 4xAA batteries, or directly via a Type-C power input.

1. **Li-ion Battery:** Insert the provided 7.4V/2600mAh Li-ion battery into the battery compartment. To charge, connect the Type-C cable to the laser level and a power source. The LCD screen will indicate charging status.
2. **AA Batteries:** If using AA batteries, insert 4xAA batteries into the AA battery holder, then place the holder into the battery compartment.
3. **Direct Power:** The device can be operated directly by connecting the Type-C cable to a power source, even without device batteries installed.



Figure 2: The Huepar S04CG offers versatile power options including a rechargeable Li-ion battery, direct Type-C input, and a 4xAA battery holder.

4.2 Mounting the Laser Level

The S04CG offers multiple mounting options for various applications.

4.2.1 Using the Magnetic Bracket

Attach the magnetic bracket to the back of the laser level. The strong magnets allow for secure attachment to metal surfaces. The bracket also features 1/4"-20 and 5/8"-11 female threads for tripod or pole mounting.



Figure 3: The multifunctional magnetic bracket allows for quick positioning on metal surfaces and offers 1/4"-20 mount thread for tripods or pole mounts.

4.2.2 Using the Telescoping Pole (LP36A)

The LP36A pole provides flexible height adjustment for your laser level.

1. **Assemble the Pole:** Connect the telescopic rods and tail rod to achieve the desired height. The pole can extend up to 3.7m (12.14ft).
2. **Attach the Mounting Bracket:** Secure the laser level's magnetic bracket to the pole's mounting clamp.
3. **Adjust Height:** Use the pole's adjustment mechanisms to set the laser level at the required height. The clamp allows for fine-tuning and depth adjustment.



Figure 4: The laser level mounted on the 3.7m/12ft telescoping pole, suitable for various rotary and line laser applications.



Figure 5: Detailed view of the pole clamp adjustments, including height adjustment, 7cm fine-tuning, and 5cm depth adjustment, with 1/4"-20 male thread and 5/8"-11 screw adapter.

4.2.3 Using the Lifting Base

The included lifting base allows the laser level to be raised from the surface between 1 inch and 3.54 inches, ideal for tiling applications where a low horizontal line is needed.



Figure 6: The laser level positioned on its lifting base, demonstrating its ability to project a low horizontal line, controlled by the remote.

5. OPERATION

5.1 Powering On/Off

To power on the device, slide the pendulum lock switch to the unlocked position. To power off, slide the pendulum lock switch to the locked position.

5.2 Selecting Laser Planes

The S04CG features four 360° laser planes. Use the 'H' button for horizontal lines and the 'V' button for vertical lines on the keypad to select desired laser configurations.



Figure 7: The S04CG allows independent selection of 4x360° laser lines using the H/V buttons, Bluetooth app, or remote control.

5.3 Operating Modes

The laser level supports three primary operating modes:

5.3.1 Self-Leveling Mode

When the pendulum is unlocked, the laser level automatically self-levels within $\pm 3.5^\circ$. If the device is outside this range, the laser lines will flash rapidly, and an audible alarm will sound, indicating an out-of-level condition.

5.3.2 Manual Mode

To use the laser lines at any angle (e.g., for sloped applications), lock the pendulum by sliding the switch to the locked position. The laser lines will then be fixed, and the self-leveling function will be deactivated.

5.3.3 Pulse Mode

Activate pulse mode by pressing the dedicated pulse mode button. This mode is used with a Huepar Laser Receiver (LR-6RG/LR-5RG) to extend the working range of the laser lines up to 200 Ft. The laser lines will appear dimmer in pulse mode to the naked eye but are optimized for detection by the receiver.



Figure 8: The three distinct operation modes of the S04CG: Self-leveling (laser beeps if out of range), Manual (locks lines for any angle), and Pulse mode (extends working range up to 200ft).

5.4 Bluetooth App and Remote Control

The S04CG can be controlled remotely via the Huepar App on a smartphone or the included remote control.

- **Bluetooth Connection:** Download the Huepar App from your device's app store. Enable Bluetooth on your smartphone and the laser level. Follow the app's instructions to pair the devices. The laser tool can connect to two Bluetooth devices simultaneously.
- **Functions:** Both the app and remote control allow you to switch laser lines ON/OFF, activate/deactivate pulse mode, and select specific laser planes. The app also provides an out-of-level alarm.



Figure 9: The backlit LCD screen provides real-time status updates for power, tilt angle, pendulum lock, and pulse mode, enhancing operational clarity.

6. MAINTENANCE

Proper maintenance ensures the longevity and accuracy of your Huepar S04CG laser level.

- **Cleaning:** Clean the laser level and its accessories with a soft, damp cloth. Do not use abrasive cleaners or solvents. Ensure the laser emission windows are clean for optimal beam clarity.
- **Storage:** When not in use, store the laser level in its hard carry case in a dry, dust-free environment. Ensure the pendulum is locked before storage to prevent damage during transport.
- **Battery Care:** For long-term storage, remove the Li-ion battery and store it separately. Recharge the Li-ion battery periodically (every 3-6 months) to maintain its health.
- **Calibration:** While the device is factory-calibrated, regular checks for accuracy are recommended, especially after drops or impacts. Refer to the troubleshooting section for basic checks.

7. TROUBLESHOOTING

If you encounter issues with your Huepar S04CG, refer to the table below for common problems and solutions.

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Laser lines are flashing and beeping.	Device is out of self-leveling range ($\pm 3.5^\circ$).	Place the laser level on a more level surface.
No laser lines appear.	Low battery, pendulum locked, or device off.	Charge or replace batteries. Unlock the pendulum. Ensure the device is powered on.
Laser lines are dim in pulse mode.	Normal operation for pulse mode.	Use a Huepar Laser Receiver (LR-6RG/LR-5RG) for detection over longer distances.
Bluetooth connection fails.	Bluetooth not enabled, device too far, or interference.	Ensure Bluetooth is on for both devices. Move closer to the laser level. Restart both devices.
Inaccurate laser lines.	Device dropped or impacted, or not properly leveled.	Perform a basic accuracy check (refer to advanced manual if needed). Ensure the device is within self-leveling range.

8. SPECIFICATIONS

Technical specifications for the Huepar S04CG 4D Laser Level:

Feature	Detail
Laser Class	Class II (IEC/EN60825-1/2014)
Laser Wavelength	505-520nm (Green Laser)
Leveling Accuracy	$\pm 1/13$ inch at 33 Ft. (± 2 mm at 10m)
Self-Leveling Range	$\pm 3.5^\circ$
Working Range (Line)	65 Ft. (20m)
Working Range (with Receiver)	200 Ft. (60m)
Power Source	7.4V/2600mAh Li-ion Battery, 4xAA Batteries, Type-C Direct Power
Operating Time	Approx. 5 hours (with all laser lines on)
IP Rating	IP54 (Dust and Splash Proof)
Mount Size	1/4"-20 and 5/8"-11
Operating Temperature	14°F to 122°F (-10°C to 50°C)
Storage Temperature	-4°F to 158°F (-20°C to 70°C)
Manufacturer	Huepar

Feature	Detail
Material	Metal, Plastic

9. WARRANTY AND SUPPORT

Huepar products are designed and manufactured to the highest quality standards. This product is covered by a limited warranty against defects in materials and workmanship under normal use.

For detailed warranty information, technical support, or service inquiries, please visit the official Huepar website or contact their customer service department. Keep your purchase receipt as proof of purchase for warranty claims.

Official Website: www.huepar.com