

Huepar S03CG & BLM-60G

Huepar S03CG & BLM-60G Laser Level and Laser Distance Measure User Manual

Model: S03CG & BLM-60G

Brand: Huepar

1. INTRODUCTION

Thank you for choosing the Huepar S03CG Laser Level and BLM-60G Bilateral Laser Distance Measure. This comprehensive tool combines a 3x360° green cross line laser with an advanced laser distance meter, designed for precision and efficiency in various measurement and leveling tasks. This manual provides essential information for safe operation, proper setup, and effective use of your device. Please read it thoroughly before operation and retain it for future reference.

The S03CG laser level features a bright green laser for superior visibility, self-leveling capabilities, and a pulse mode for extended range with a receiver. The BLM-60G bilateral laser measure offers simultaneous two-direction measurements, an LCD screen, and Bluetooth connectivity for enhanced control and data management.

2. SAFETY INSTRUCTIONS

WARNING: This product contains a Class 2 laser. Avoid direct eye exposure to the laser beam. Staring into the beam may cause eye injury.

- Do not disassemble the device. Repairs should only be performed by authorized service personnel.
- Do not operate the device in explosive environments or near flammable liquids or gases.
- Keep the device out of reach of children.
- Use only specified batteries and power adapters.
- Do not modify the laser output.
- Always turn off the device when not in use and store it safely.
- Protect the device from extreme temperatures, moisture, and strong vibrations.

3. PRODUCT COMPONENTS AND FEATURES

3.1. Huepar S03CG Laser Level



Figure 3.1: Huepar S03CG Laser Level and BLM-60G Laser Distance Measure with included accessories.

The S03CG laser level is a 3x360° green cross line laser. It features an LCD screen for displaying battery status, tilt angle, pendulum status, and pulse mode. It supports Bluetooth connectivity for control via the Huepar App and a remote control. The device offers self-leveling mode, manual mode for angled lines, and a pulse mode for use with a laser receiver.

- **Laser Configuration:** One 360° horizontal line and two 360° vertical lines.
- **Self-Leveling Range:** $\pm 3.5^\circ$.
- **Accuracy:** $\pm 1/9$ inch at 33 feet.
- **Power Supply:** Large capacity Li-ion battery or 4 AA alkaline batteries. Type-C charging port.
- **Mounting:** 1/4"-20 and 5/8"-11 mounting threads. Includes a magnetic bracket.

3.2. Huepar BLM-60G Bilateral Laser Distance Measure



With Backlit LCD Screen

Easily check the Power, Tilt Angle of X/Y axis, Pendulum status and Pulse Mode at any time

Figure 3.2: Huepar BLM-60G Laser Distance Measure with its backlit LCD screen.

The BLM-60G is a bilateral laser distance measure capable of simultaneous two-direction measurements. It features a backlit LCD screen for clear readings and supports various measurement modes.

- **Measurement Range:** Up to 393 feet (bidirectional), 196 feet (unidirectional).
- **Accuracy:** $\pm 1/16$ inch.
- **Measurement Modes:** Single measurement, Area, Volume, Wall Area, Pythagorean (5 types).
- **Display:** Backlit LCD.

4. SETUP AND POWER SUPPLY

4.1. Powering the S03CG Laser Level



Figure 4.1.1: Laser level powered by Li-ion battery.

The S03CG can be powered by

its large capacity Li-ion battery. Ensure the battery is fully charged before use. The battery can be charged separately via its Type-C port or while installed in the device.



Figure 4.1.2: Laser level powered by AA alkaline batteries using the included holder.

Alternatively, use 4 AA alkaline batteries with the provided battery holder. Insert batteries according to polarity markings.



Figure 4.1.3: Laser level operating directly from a Type-C power source.

The device can also be operated directly by plugging in a Type-C cable to a power source (e.g., phone charger, power bank) even without batteries installed.

4.2. Mounting the S03CG Laser Level



Figure 4.2.1: Laser level attached to the magnetic bracket.

The included magnetic bracket allows for versatile mounting on metal surfaces. It features fine-tuning knobs for precise horizontal and vertical adjustments. The bracket can rotate 360°.



Figure 4.2.2: Laser level mounted on a tripod using its threads.

The laser level has 1/4"-20 mounting threads, and the magnetic bracket has both 1/4"-20 and 5/8"-11 threads, allowing attachment to various tripods or poles (tripod not included).

5. OPERATING THE S03CG LASER LEVEL

5.1. Operation Modes



Figure 5.1.1: Self-leveling mode in operation.

Self-leveling Mode: Unlock the pendulum. The laser tool will self-level within $\pm 3.5^\circ$. If out of range, the laser will beep to indicate an out-of-level condition.



Figure 5.1.2: Manual mode for angled lines.

Manual Mode: Lock the pendulum. This mode allows the laser lines to be projected at any desired angle, useful for tasks like staircase alignment.

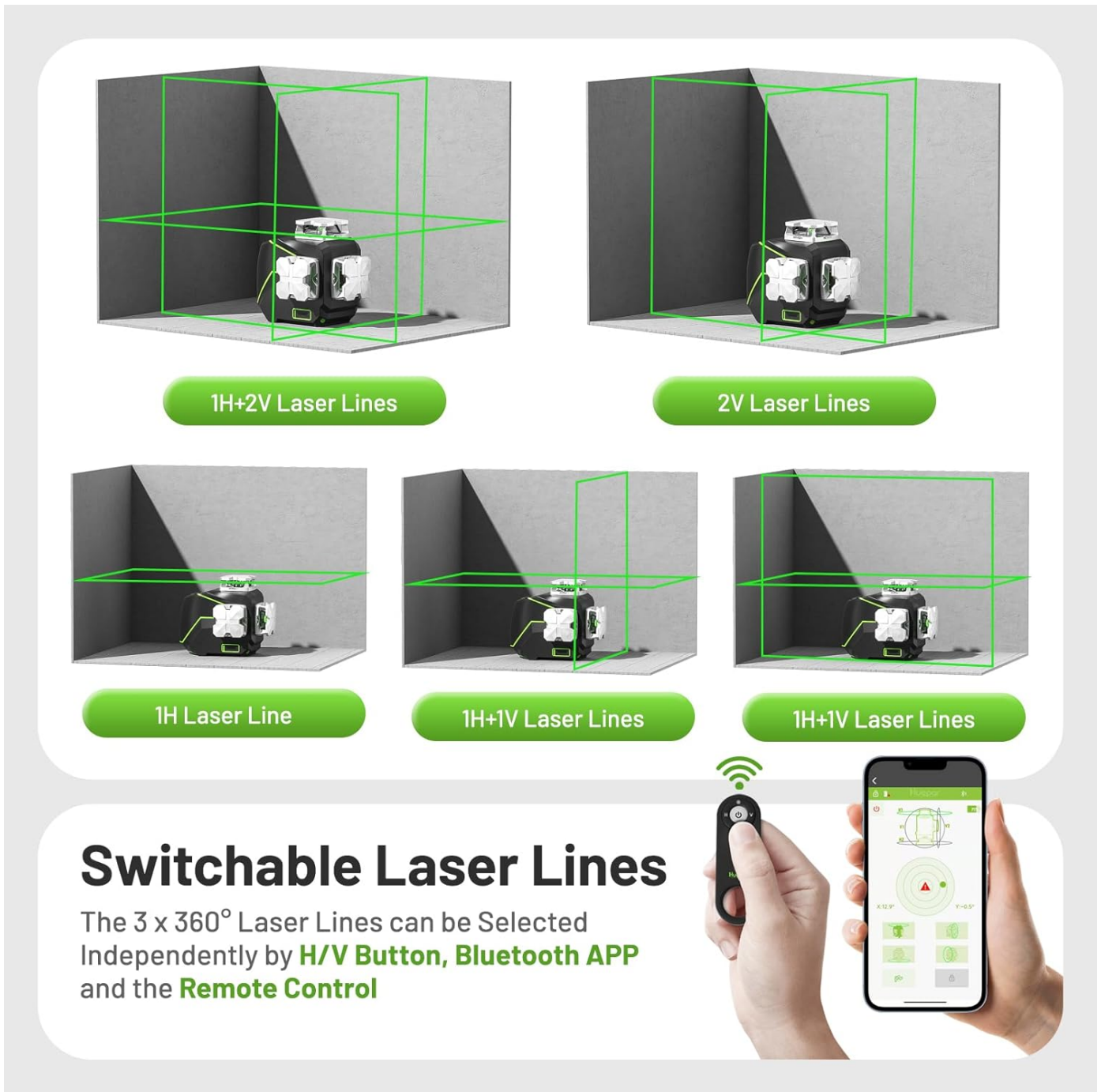


Figure 5.1.3: Pulse mode for extended range.

Pulse Mode: Activate pulse mode to extend the working

range up to 200 feet when used with a compatible Huepar Laser Receiver (LR-6RG/LR-5RG).

5.2. Switching Laser Lines



Switchable Laser Lines

The 3 x 360° Laser Lines can be Selected Independently by **H/V Button**, **Bluetooth APP** and the **Remote Control**

Figure 5.2: Different laser line configurations available.

Use the 'H' button to activate/deactivate horizontal lines and the 'V' button to activate/deactivate vertical lines. You can select various combinations, including 1H+2V, 2V, 1H, 1H+1V, etc. The Huepar App and remote control also allow for switching laser lines.

5.3. Resetting X/Y Axis Angle



Reset the X/Y Axis Angle

On relative leveling surface, turn on the laser tool, press the V button for 5 seconds to reset the angle to zero

Figure 5.3: LCD screen displaying X and Y axis angles.

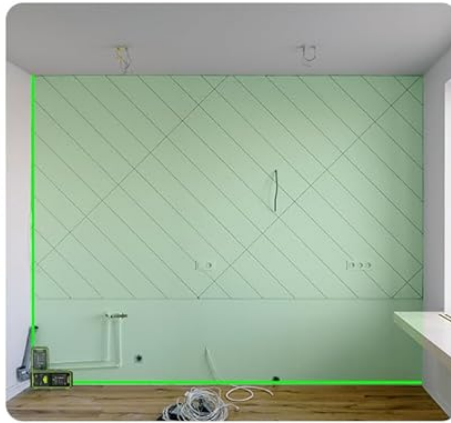
To reset the X/Y axis angle to zero on a relative leveling surface, turn on the laser tool and press the 'V' button for 5 seconds. This will reset the displayed angle to 0.0.

6. OPERATING THE BLM-60G BILATERAL LASER DISTANCE MEASURE

9 Measuring Modes



Single Measurement



Area



Volume



Wall Area



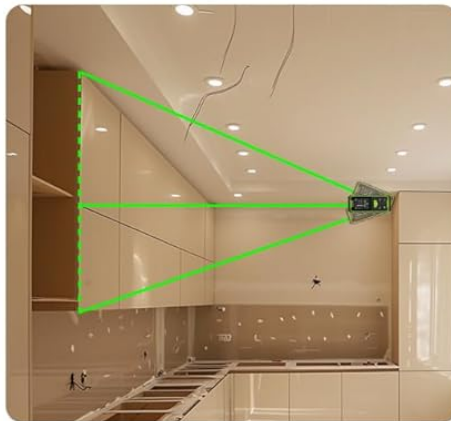
Pythagorean-1



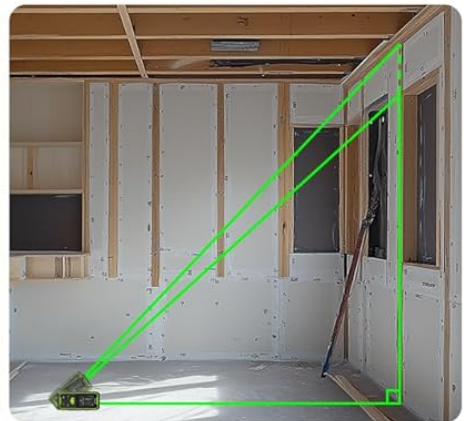
Pythagorean-2



Pythagorean-3



Pythagorean-4



Pythagorean-5

Figure 6.1: BLM-60G Laser Distance Measure in operation.

The BLM-60G offers efficient and accurate distance measurements. Its bilateral measurement capability allows for simultaneous two-direction measurements, reducing the need to frequently reposition the device.

6.1. Measurement Modes

Three Power Supply Systems



1/ 7 Hours Run-time
with Li-ion Battery



2/ Convenient use with
AA Batteries



3/ Use by direct input
charging without
batteries



Figure 6.2: Overview of the 9 measurement modes.

The BLM-60G supports 9 different measurement modes:

1. **Single Measurement:** Measures the distance from one point to another.
2. **Area Measurement:** Calculates the area of a rectangular space.
3. **Volume Measurement:** Calculates the volume of a space.
4. **Wall Area Measurement:** Calculates the total area of multiple walls.
5. **Pythagorean-1:** Calculates one side of a right triangle using two other sides.
6. **Pythagorean-2:** Calculates a height using two measurements.
7. **Pythagorean-3:** Calculates a height using three measurements.
8. **Pythagorean-4:** Calculates a height using four measurements.
9. **Pythagorean-5:** Calculates a height using five measurements.

Refer to the on-screen prompts and the device's buttons to navigate and select the desired measurement mode.

7. BLUETOOTH CONNECTIVITY AND HUEPAR APP



Figure 7.1: Controlling the laser level via the Huepar App.

Both the S03CG laser level and the BLM-60G laser distance measure support Bluetooth connectivity. Download the Huepar App on your smartphone to control various functions remotely.

- **Laser Level Control:** The App allows you to switch ON/OFF laser lines, activate/deactivate pulse mode, and provides an out-of-level alarm. The laser tool can connect to two Bluetooth devices simultaneously.
- **Laser Measure Control:** The App can be used to control the BLM-60G, manage measurement data, and potentially access advanced features.

Ensure Bluetooth is enabled on your smartphone and follow the in-app instructions to pair with your Huepar devices.

8. MAINTENANCE AND CARE

- Clean the device regularly with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.

- Keep the laser apertures clean and free from dust or debris.
- Store the device in its protective case in a dry, cool place when not in use.
- If the device will not be used for an extended period, remove the batteries to prevent leakage.
- Avoid dropping the device or subjecting it to strong impacts.

9. TROUBLESHOOTING

Problem	Possible Cause	Solution
Laser lines are dim or not visible.	Low battery; too much ambient light; laser aperture dirty.	Charge/replace batteries; use in lower light conditions or with a laser receiver; clean laser aperture.
Laser level beeps continuously.	Device is out of self-leveling range ($\pm 3.5^\circ$); pendulum is locked in self-leveling mode.	Place the device on a more level surface; unlock the pendulum if in self-leveling mode.
Laser distance measure shows error.	Measurement surface is too reflective/absorbent; obstruction in laser path; device moved during measurement.	Measure to a different surface; ensure clear line of sight; keep device steady during measurement.
Bluetooth connection issues.	Bluetooth not enabled on phone; device not in pairing mode; interference.	Ensure Bluetooth is on; restart device and app; try pairing again; move closer to device.

If the problem persists, please contact Huepar customer support.

10. TECHNICAL SPECIFICATIONS

10.1. Huepar S03CG Laser Level

- **Laser Class:** Class 2 (IEC/EN60825-1/2014), <1mW power output
- **Laser Wavelength:** 505-520nm (Green Laser)
- **Leveling Accuracy:** $\pm 1/9$ inch at 33 feet ($\pm 2.5\text{mm}/10\text{m}$)
- **Self-Leveling Range:** $\pm 3.5^\circ$
- **Working Range (Line):** 100 feet (30m)
- **Working Range (with Detector):** 200 feet (60m) with Huepar Receiver LR-6RG/LR-5RG
- **Operating Time:** Up to 7 hours with Li-ion battery (depending on laser lines used)
- **Power Source:** Li-ion battery or 4 AA alkaline batteries
- **Mount Size:** 1/4"-20 and 5/8"-11
- **IP Rating:** IP54 (dust and splash proof)
- **Operating Temperature:** -10°C to 50°C (14°F to 122°F)

10.2. Huepar BLM-60G Bilateral Laser Distance Measure

- **Measurement Accuracy:** $\pm 1/16$ inch ($\pm 1.5\text{mm}$)
- **Max Bidirectional Measure Distance:** 393 feet (120m)
- **Max Unidirectional Measure Distance:** 196 feet (60m)

- **Units of Measurement:** m/in/ft
- **Display:** Backlit LCD
- **Connectivity:** Bluetooth
- **Power Source:** Integrated rechargeable battery (charged via Type-C)

11. WARRANTY AND SUPPORT

Huepar products are designed and manufactured to the highest quality standards. For warranty information, technical support, or service inquiries, please refer to the warranty card included with your product or visit the official Huepar website. You can also contact Huepar customer service directly through the contact information provided on their website or in the product packaging.

Contact Information:

Website: www.huepar.com

Email: support@huepar.com

Please have your model number (S03CG & BLM-60G) and purchase date ready when contacting support.