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> Ingco HLL305205 Self-Leveling Green Laser Level Instruction Manual

Ingco HLL305205

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Instruction Manual

1. INTRODUCTION

Thank you for choosing the Ingco HLL305205 Self-Leveling Green Laser Level. This device is designed for precise leveling and alignment tasks in various applications, including construction, home improvement, carpentry, and fencing. It features a bright green laser beam for enhanced visibility and a self-leveling mechanism for ease of use. Please read this manual thoroughly before operating the device to ensure safe and efficient use.



Two Ingco HLL305205 laser levels, showcasing the product's design and green laser output.

2. SAFETY INFORMATION

Always observe the following safety precautions to prevent injury and damage to the device:

- This device uses a Class 3R Green Laser with an output of less than 5mW **Do not stare directly into the laser beam.** Direct eye exposure can cause serious eye injury.
- Avoid pointing the laser beam at people or animals.
- Do not disassemble or modify the laser level. Repairs should only be performed by authorized service personnel.
- Operate the device within the specified temperature range of 0°C to +40°C (32°F to 104°F).
- Store the device within the specified temperature range of -20°C to +70°C (-4°F to 158°F).
- Keep the device out of reach of children.
- Ensure batteries are inserted correctly according to polarity markings. Remove batteries if the device will not be used for an extended period.



A warning label indicating UN 3481 classification for batteries, important for safe handling, storage, and transportation.

3. PACKAGE CONTENTS

The Ingco HLL305205 Self-Leveling Green Laser Level package typically includes:

- 1 x Ingco HLL305205 Self-Leveling Green Laser Level Unit
- 1 x Plastic Carrying Case
- 4 x LR6 AA (1.5V) Batteries

Note: Tripods are not included but the device is compatible with HLLT01152 tripods.



A user carrying the Ingco HLL305205 laser level in its durable plastic carrying case, highlighting its portability and protection.

4. SETUP

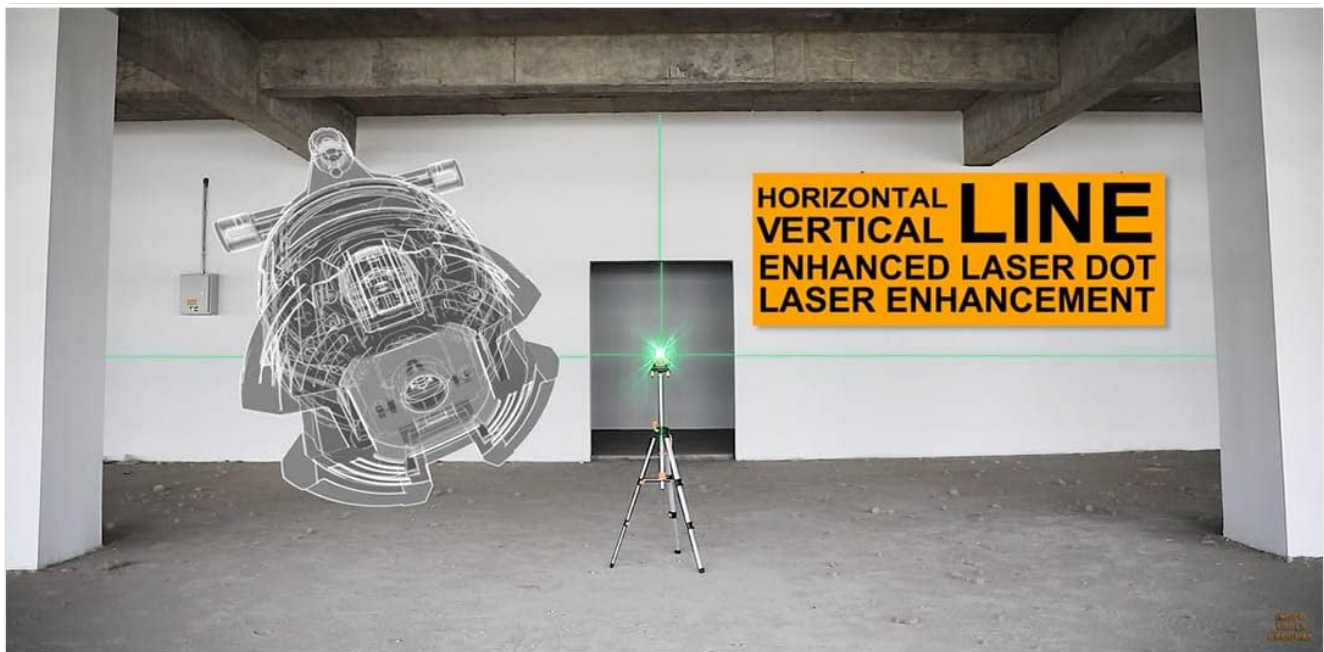
1. **Battery Installation:** Open the battery compartment and insert 4 LR6 AA (1.5V) batteries, ensuring correct polarity. Close the compartment securely.
2. **Placement:** Place the laser level on a stable, flat surface or mount it on a compatible tripod (e.g., HLLT01152).
3. **Self-Leveling:** The device features a self-leveling mechanism. When powered on, if the device is within its self-leveling angle of ≤ 3 degrees, it will automatically level itself within approximately 3 seconds. If the device is outside this range, the laser lines may flash or an alarm may sound, indicating it needs to be adjusted manually until it is within the self-leveling range.



An exploded diagram illustrating the internal components of the Ingco HLL305205 laser level, including the self-leveling pendulum system.

5. OPERATING INSTRUCTIONS

1. **Power On/Off:** Locate the power switch on the device. Slide it to the 'ON' position to power on the laser level. The laser lines will activate and begin self-leveling. Slide to 'OFF' to power down.
2. **Mode Selection:** The device typically offers different modes for projecting laser lines (e.g., horizontal line only, vertical lines only, or all lines). Refer to the device's control panel for specific buttons to cycle through these modes. The HLL305205 projects 1 horizontal line and 4 vertical lines.
3. **Cross Lock Function:** This function allows you to lock the pendulum, disabling the self-leveling feature. This is useful for projecting angled lines. Activate this function as per the device's controls.
4. **Laser Gain Function:** This feature enhances the brightness of the laser lines, improving visibility in brighter conditions or over longer distances. Activate this function as needed.
5. **Working Range:** The effective working range of the laser level is 0 to 30 meters. Ensure your work area is within this range for optimal accuracy.



The Ingco HLL305205 laser level projecting multiple green laser lines on a wall, indicating its working capabilities.



The Ingco HLL305205 laser level projecting clear horizontal and vertical green laser lines, demonstrating its enhanced laser visibility.

6. MAINTENANCE

- **Cleaning:** Keep the laser level clean. Wipe the exterior with a soft, damp cloth. Do not use abrasive cleaners or solvents. Ensure the laser apertures are free from dust and debris.
- **Storage:** When not in use, store the device in its plastic carrying case in a dry, cool place, away from direct sunlight and extreme temperatures. The storage temperature range is -20°C to +70°C (-4°F to 158°F).
- **Battery Care:** Remove batteries if the device will not be used for an extended period to prevent leakage and damage.
- **Calibration:** If you suspect the laser level is out of calibration, contact Ingco customer support or an authorized service center for professional calibration.

7. TROUBLESHOOTING

- **Laser not turning on:** Check if the batteries are correctly installed and have sufficient charge. Ensure the power switch is in the 'ON' position.
- **Laser lines flashing or alarm sounding:** This indicates the device is outside its self-leveling range (≤ 3 degrees). Adjust the position of the laser level until it is within the acceptable range.
- **Inaccurate lines:** Ensure the device is placed on a stable surface and is within its self-leveling range. If issues persist, the device may require calibration.
- **Weak laser beam:** Check battery charge. Ensure laser apertures are clean. Activate the laser gain function if available.

8. SPECIFICATIONS

Feature	Specification
Model Number	HLL305205
Laser Type	Green Laser, Class 3R, <5mW
Laser Lines	1 Horizontal, 4 Vertical
Working Range	0 ~ 30 meters
Leveling Accuracy	± 1.0 mm at 5 meters
Line Accuracy	± 1.5 mm at 5 meters
Self-Leveling Time	<3 seconds
Self-Leveling Angle	≤ 3 degrees
Operating Temperature	0°C ~ +40°C (32°F ~ 104°F)
Storage Temperature	-20°C ~ +70°C (-4°F ~ 158°F)
Batteries	4 x LR6 AA (1.5V)
Weight (without batteries)	980 grams
Product Dimensions	7 x 2 x 12 cm
Material (Casing)	Plastic
Country of Origin	China

9. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please contact your local Ingco dealer or the point of purchase. Keep your purchase receipt as proof of purchase for warranty claims.