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> Ingco HLL306505 5-Beam Line Red Laser Level Instruction Manual

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Model: HLL306505

1. INTRODUCTION

This manual provides essential information for the safe and effective operation, setup, maintenance, and troubleshooting of your Ingco HLL306505 5-Beam Line Red Laser Level. Please read this manual thoroughly before using the device to ensure proper function and to prevent injury or damage.

The Ingco HLL306505 is a precision instrument designed for various leveling and alignment tasks, projecting five red laser beams for accurate horizontal and vertical measurements.

2. SAFETY INSTRUCTIONS

Always adhere to the following safety guidelines when operating the laser level:

- **Laser Radiation:** This product emits laser radiation. Avoid direct eye exposure to the laser beam. Do not stare into the beam.
- **Protective Eyewear:** Always wear the provided safety goggles when operating the laser level, especially in bright conditions, to enhance visibility and protect your eyes.
- **Children:** Keep the device out of reach of children.
- **Operating Environment:** Use the laser level in a stable and secure environment. Avoid operating in explosive atmospheres or near flammable materials.
- **Modifications:** Do not attempt to modify or disassemble the laser level. Unauthorized modifications can result in hazardous laser exposure and will void the warranty.
- **Battery Safety:** Ensure batteries are inserted with correct polarity. Do not mix old and new batteries or different types of batteries. Remove batteries if the device will not be used for an extended period.

3. PACKAGE CONTENTS

Upon opening the package, verify that all items listed below are present and undamaged:

- Ingco HLL306505 5-Beam Line Red Laser Level
- Protective Carrying Case
- Safety Goggles

- Strap
- USB Charging Cable
- Batteries (AA or similar, as specified)
- Instruction Manual (this document)



Image 1: Contents of the Ingco HLL306505 package, including the laser level, carrying case, safety goggles, strap, USB charging cable, and batteries.

4. PRODUCT FEATURES AND COMPONENTS

The Ingco HLL306505 is designed for precision and ease of use. Key features include:

- **5-Beam Red Laser:** Projects multiple red laser lines for comprehensive leveling and alignment.
- **Horizontal & Vertical Lasers:** Capable of projecting both horizontal and vertical lines simultaneously or independently.
- **Self-Leveling Function:** Automatically levels within a certain range, simplifying setup.

- **Robust Design:** Built for durability in various working conditions.



Image 2: The Ingco HLL306505 laser level demonstrating its projected red laser lines, alongside visual representations of included accessories like safety goggles, strap, USB cable, and batteries.

5. SETUP

1. **Battery Installation:** Open the battery compartment, typically located at the base or side of the unit. Insert the provided batteries, ensuring correct polarity (+/-). Close the compartment securely.
2. **Placement:** Place the laser level on a stable, level surface or mount it on a compatible tripod. Ensure the area is clear of obstructions.
3. **Power On:** Locate the power switch, usually a sliding or push-button control. Turn the device ON. The laser beams should activate, and the self-leveling mechanism will begin to adjust.
4. **Self-Leveling Check:** If the device has a self-leveling indicator (e.g., a blinking laser or an audible alarm), ensure it indicates that the device is level before proceeding. If the device is outside its self-leveling range, adjust its position until it levels.

6. OPERATING INSTRUCTIONS

- Selecting Laser Modes:** The HLL306505 typically features buttons or switches to select different laser projection modes. These may include:
 - Horizontal Line Only
 - Vertical Lines Only (multiple vertical beams)
 - All Beams (Horizontal and Vertical)

Press the mode selection button(s) to cycle through the available options until the desired beam configuration is active.
- Manual Mode (if applicable):** Some laser levels allow for manual mode, where the self-leveling function is locked, enabling projection of angled lines. Consult the device's specific controls for activating and deactivating manual mode.
- Visibility:** In bright environments, the use of safety goggles will significantly improve the visibility of the red laser lines.
- Power Off:** When finished, turn the power switch to the OFF position. This will lock the pendulum (if applicable) and conserve battery life.

7. MAINTENANCE

- Cleaning:** Use a soft, damp cloth to clean the exterior of the laser level. Do not use abrasive cleaners or solvents. Keep the laser apertures clean and free of dust.
- Storage:** Store the laser level in its protective carrying case in a dry, cool place, away from direct sunlight and extreme temperatures. Remove batteries if storing for extended periods.
- Calibration:** While the device is factory-calibrated, regular checks for accuracy are recommended, especially after drops or impacts. Refer to a qualified service center for professional calibration if needed.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Laser beams do not turn on.	Low or dead batteries; incorrect battery installation; power switch off.	Replace batteries; ensure correct polarity; turn power switch ON.
Laser beams are blinking or alarm sounds.	Device is outside its self-leveling range.	Adjust the position of the laser level until it is within its self-leveling range.
Laser beams are dim.	Low batteries; dirty laser aperture; bright ambient light.	Replace batteries; clean laser aperture; use safety goggles to enhance visibility.
Inaccurate measurements.	Device not properly leveled; device dropped or impacted.	Ensure the device is self-leveled; if accuracy issues persist after impact, seek professional calibration.

9. SPECIFICATIONS

- Model:** HLL306505
- Laser Type:** Red, 5-Beam Line

- **Operation Mode:** Automatic (Self-Leveling)
- **Item Weight:** 1.6 Kilograms
- **Product Dimensions:** 10 x 20 x 37 cm
- **Batteries Required:** Yes
- **Power Source:** Battery operated

10. WARRANTY AND SUPPORT

Ingco products are manufactured to high-quality standards. For information regarding warranty coverage, technical support, or service, please refer to the warranty card included with your product or visit the official Ingco website. Keep your purchase receipt as proof of purchase for any warranty claims.

If you encounter any issues not covered in this manual, please contact Ingco customer service for assistance.

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