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› LASELION LG100 Green-Beam Laser Distance Meter User Manual

LASELION LG100

LASELION LG100 Green-Beam Laser Distance Meter User Manual

Model: LG100

1. INTRODUCTION

The LASELION LG100 is a high-precision green-beam laser distance meter designed for accurate and efficient measurements in various applications. This device features a bright green laser for enhanced visibility, multiple measurement modes, and a durable, user-friendly design. Please read this manual thoroughly before operating the device to ensure safe and correct usage.

2. WHAT'S IN THE BOX

Upon unpacking, please verify that all items listed below are present and in good condition:

- 1x LASELION LG100 Green-Beam Laser Distance Meter
- 2x 1.5V AA Batteries
- 1x Multi-language User Manual
- 1x Hand Strap
- 1x Portable Bag



Image: The LASELION LG100 package contents, showing the laser distance meter, two AA batteries, a multi-language user manual, a hand strap, and a portable carrying bag.

3. PRODUCT FEATURES

- **Green Beam Laser:** Emits a green laser beam that is significantly brighter and more visible than standard red lasers, especially in outdoor or brightly lit conditions. (Safety Laser Class II, <1mW power output).
- **High Accuracy:** Provides measurements with an accuracy of up to $\pm 1/16$ inch ($\pm 2\text{mm}$).
- **Extended Measuring Range:** Measures distances up to 328 feet (100 meters).
- **Multiple Measurement Modes:** Supports single measurement, continuous measurement, distance, area, volume, and Pythagorean calculations.
- **Built-in Bubble Levels:** Features dual bubble levels for precise horizontal and vertical alignment, enhancing measurement accuracy.
- **Backlit LCD Display:** Clear, easy-to-read display with backlight for use in various lighting conditions.
- **Unit Switching:** Easily switch between meters (M), feet (FT), inches (IN), and feet+inches (ft+in).
- **Data Storage:** Stores up to 100 sets of measurement data for review and calculation.
- **Durable Design:** IP54 rated for water and dust resistance, and drop-proof for enhanced durability.
- **Energy-saving:** Automatic shutdown feature to conserve battery life.

- **Mute Setting:** Option to silence audible feedback.

GREEN-BEAM LASER

Green Beam Laser distance measurement produces a dot 4 times brighter than a standard red beam.

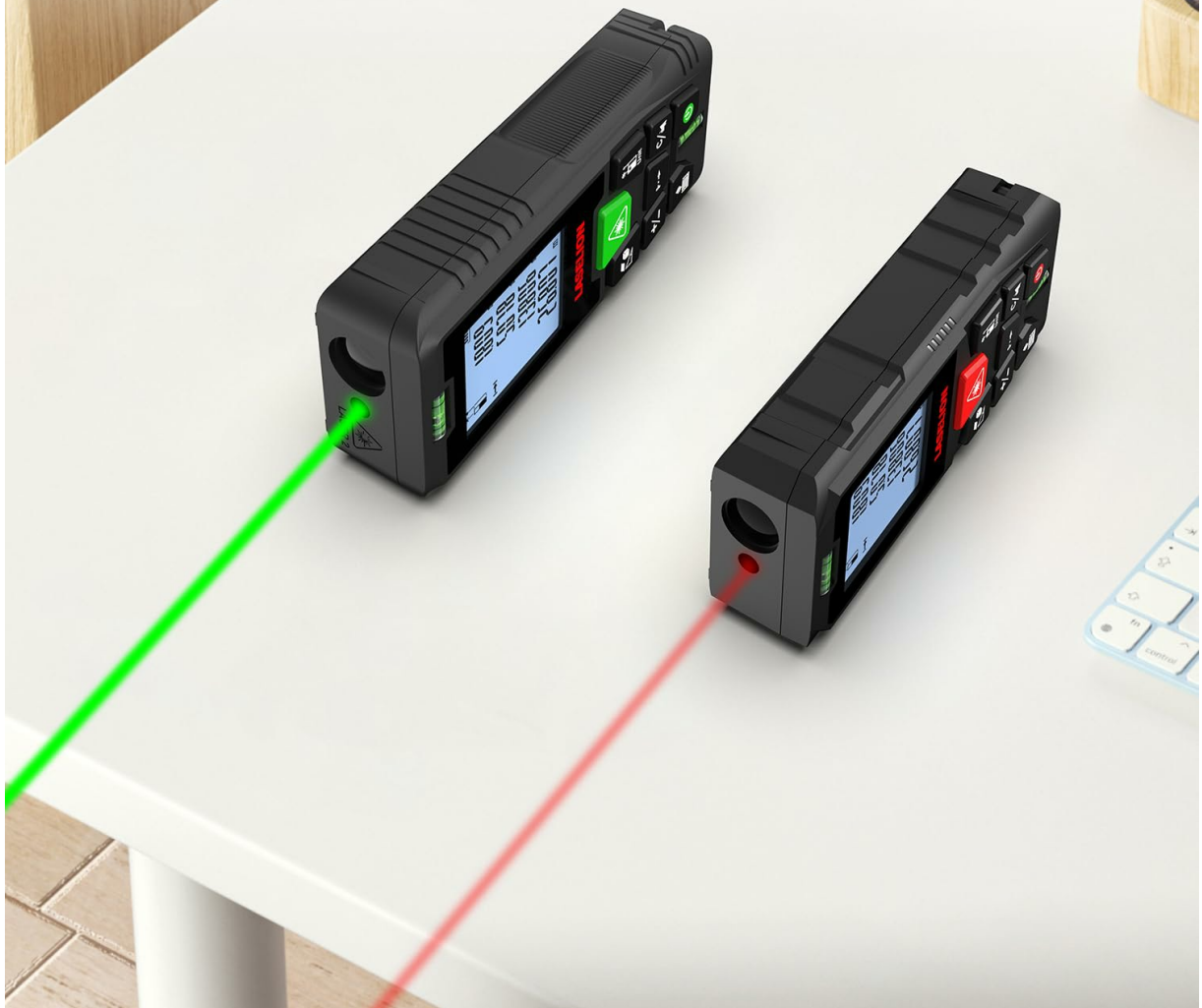


Image: A visual comparison demonstrating the enhanced brightness and visibility of the green laser beam from the LG100 compared to a standard red laser.

SUPERIOR VISIBILITY FOR OUTDOOR USE

Green laser is 4× more visible than red, perfect for bright light and outdoor conditions.



Image: The LASELION LG100 in an outdoor setting, illustrating the superior visibility of its green laser beam in bright conditions.

4. SAFETY INFORMATION

This device emits a Class II laser. Please observe the following safety precautions:

- Do not stare directly into the laser beam.
- Do not aim the laser beam at people or animals.
- Avoid direct eye exposure to the laser beam.
- Do not disassemble or modify the device.
- Keep the device out of reach of children.
- Use only as described in this manual.
- Do not operate the device in explosive environments.

5. SETUP

5.1. Battery Installation

1. Locate the battery compartment cover on the back of the device.
2. Slide the cover open.
3. Insert the two 1.5V AA batteries, ensuring correct polarity (+/-).
4. Close the battery compartment cover securely.

5.2. Power On/Off

Press the **Power ON / OFF Button** (🔘) to turn the device on. The display will light up. To turn off the device, press and hold the **Power ON / OFF Button** for a few seconds, or the device will automatically shut down after a period of inactivity to save power.



Image: A detailed view of the LG100's control panel and display, indicating the location of the Power ON/OFF button and other controls.

6. OPERATING INSTRUCTIONS

6.1. Understanding the Display

The LCD display provides various information during operation:

- **Laser On Icon:** Indicates the laser is active.
- **Memory Icon:** Shows when data is stored or being recalled.

- **Battery Status Icon:** Displays current battery level.
- **Reference Point:** Indicates whether measurements are taken from the front or back of the device.
- **Measurement Values:** Displays current, minimum, maximum, and calculated values.
- **Unit Indicator:** Shows the current unit of measurement (M, FT, IN, ft+in).
- **Measurement Mode Icons:** Indicates the active measurement mode (e.g., single, continuous, area, volume, Pythagorean).



Image: A detailed diagram illustrating the various icons and information displayed on the LG100's LCD screen, along with button functions.

6.2. Changing Measurement Units

To switch between measurement units (Meters, Feet, Inches, Feet+Inches), long press the **Unit Button** () located on the keypad.

AUTOMATIC STORAGE

Stores up to 100 data sets



Long press  to switch measurement units (m/ft/in/ft+in)

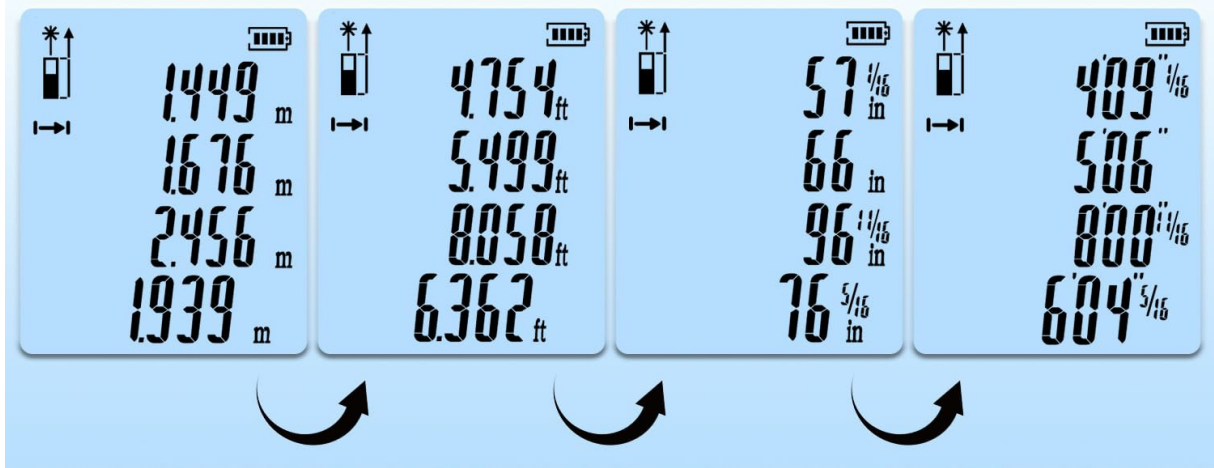


Image: The LG100's display cycling through different measurement units (meters, feet, inches, feet+inches) after pressing the unit button.

6.3. Setting Reference Point

The device can measure from its front edge or its back edge. Press the **Reference Point / Unit Button** (the button above the Unit button on the keypad) to toggle between front and back reference points. An icon on the display will indicate the active reference point.



Dual Bubble Levels
For enhanced measurement accuracy

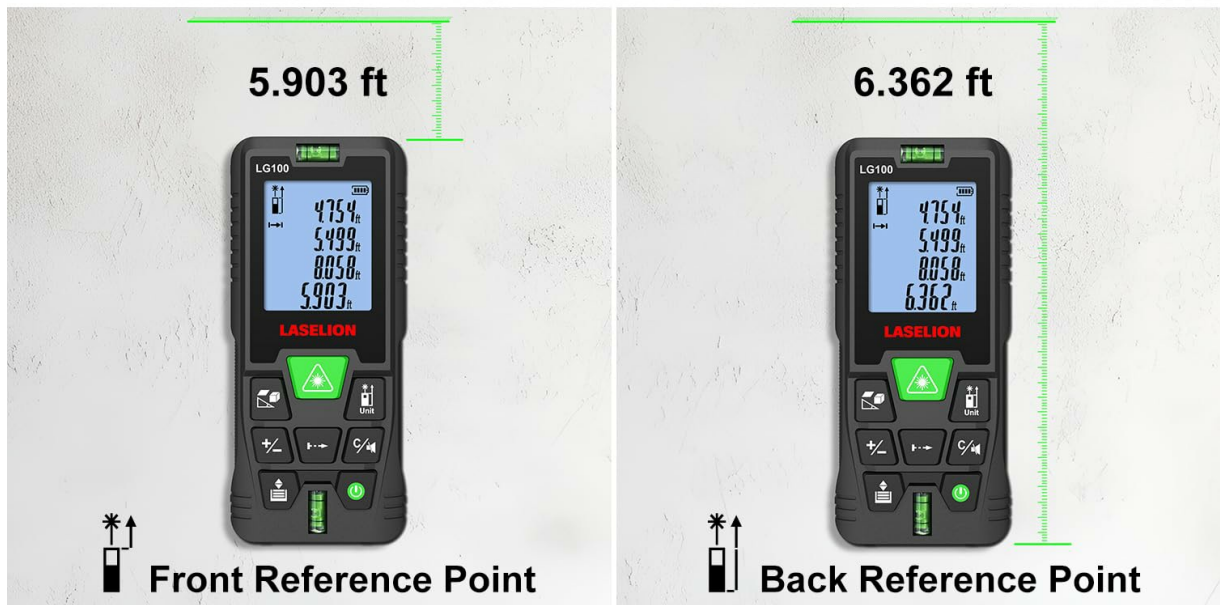


Image: The LG100 displaying measurements taken from both the front and back reference points, demonstrating how the device calculates distance based on the selected origin.

6.4. Single Distance Measurement

1. Turn on the device.
2. Aim the laser at the target point.
3. Press the **Measure Button** (📏). The laser will activate.
4. Press the **Measure Button** again to take the measurement. The result will be displayed on the screen.

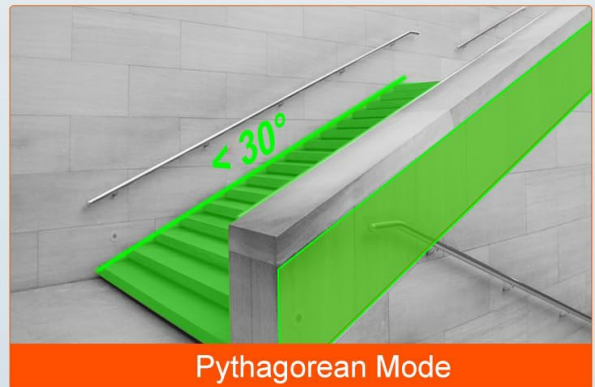
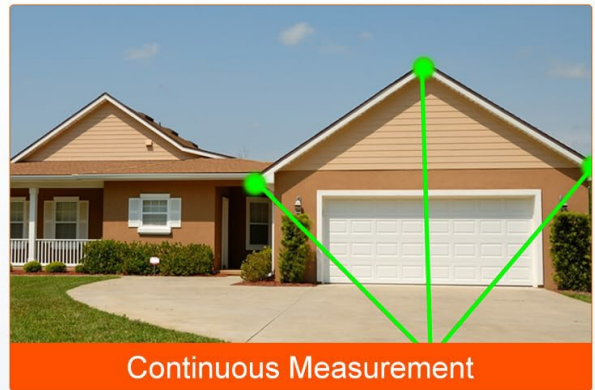


Image: An illustration of the single measurement mode, showing the laser beam extending from the device to a target point on a building.

6.5. Continuous Measurement

Continuous measurement allows you to track distances as you move the device. This mode displays the maximum and minimum distances, as well as the current distance.

1. Turn on the device.
2. Press the **Continuous Measurement Button** (the button below the Measure button on the keypad). The laser will activate and continuously measure.
3. Move the device to scan the desired area. The display will update in real-time.
4. Press the **Measure Button** or **Clear Button** to exit continuous measurement mode.

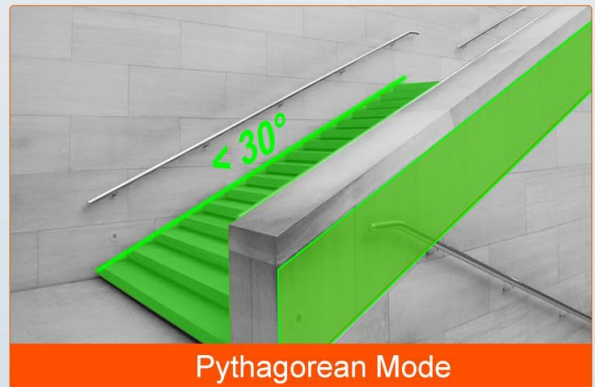
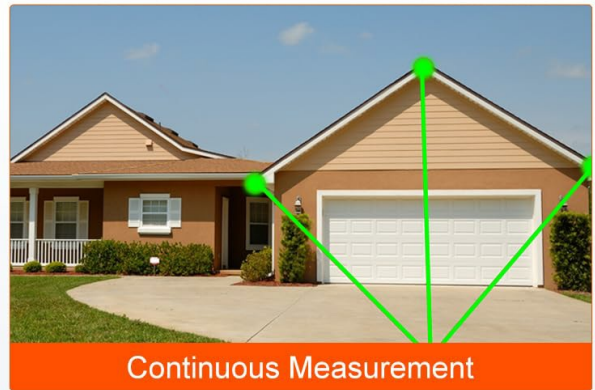


Image: An illustration of the continuous measurement mode, depicting the laser scanning an area to provide dynamic distance readings.

6.6. Area Measurement

1. Press the **Menu Button** (📱) until the area measurement icon (📐) appears on the display.
2. Take the first measurement (e.g., length) by pressing the **Measure Button**.
3. Take the second measurement (e.g., width) by pressing the **Measure Button** again.
4. The device will automatically calculate and display the area.

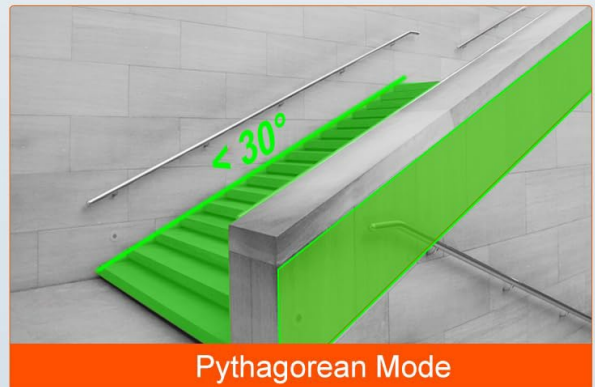
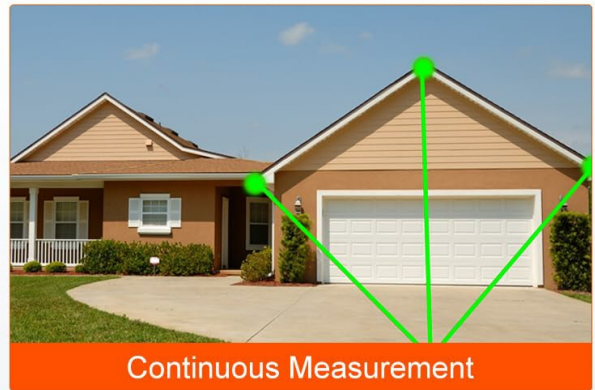


Image: An illustration of the area calculation mode, showing a room with its area highlighted in green, indicating how the device calculates square footage.

6.7. Volume Measurement

1. Press the **Menu Button** until the volume measurement icon (📏) appears on the display.
2. Take the first measurement (length) by pressing the **Measure Button**.
3. Take the second measurement (width) by pressing the **Measure Button**.
4. Take the third measurement (height) by pressing the **Measure Button**.
5. The device will automatically calculate and display the volume.

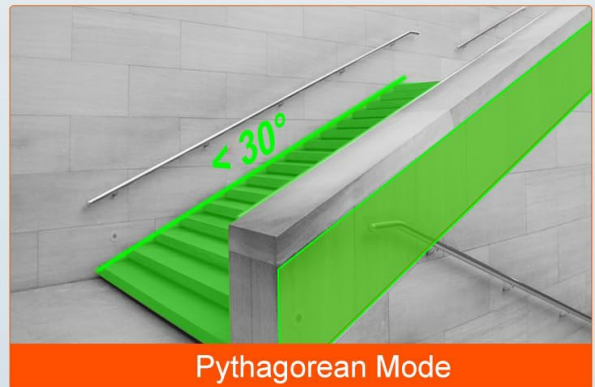
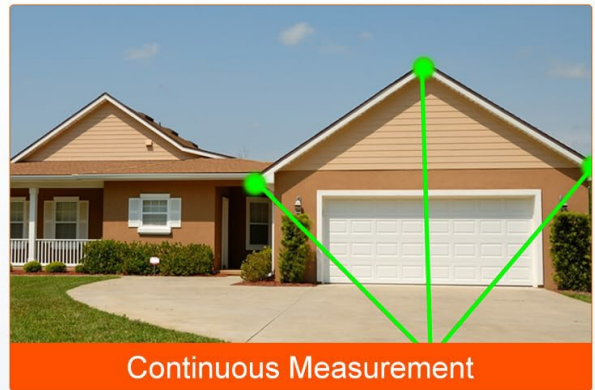


Image: An illustration of the volume calculation mode, showing a bathroom space with its volume highlighted in green, demonstrating how the device calculates cubic measurements.

6.8. Pythagorean Measurement

The Pythagorean mode allows indirect measurement of heights or distances using the Pythagorean theorem ($a^2 + b^2 = c^2$).

1. Press the **Menu Button** until the Pythagorean measurement icon (📐) appears on the display.
2. Follow the on-screen prompts to take the required measurements (e.g., hypotenuse, base).
3. The device will calculate and display the unknown side.

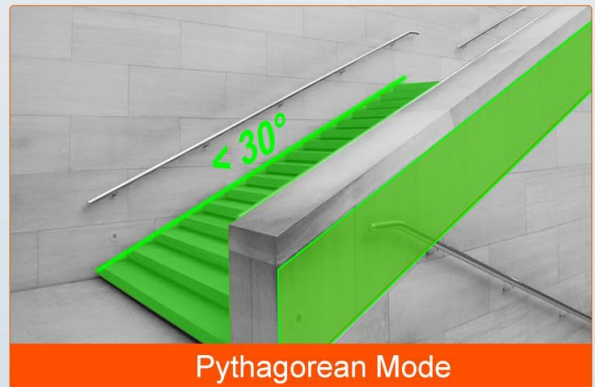
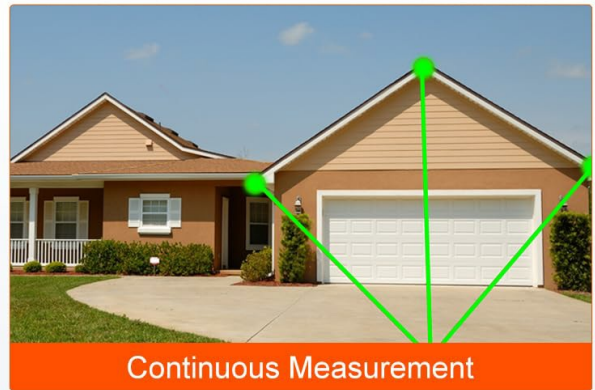


Image: An illustration of the Pythagorean mode, showing how the device can indirectly measure height or distance by calculating the sides of a right-angled triangle.

6.9. Data Storage and Recall

The device can store up to 100 sets of measurement data.

1. After a measurement is taken, it is automatically stored.
2. To recall stored data, press the **Memory Button** (📁).
3. Use the **Addition / Subtraction Buttons** to navigate through the stored records.
4. To clear data, refer to the "Clear" function.

AUTOMATIC STORAGE

Stores up to 100 data sets



Long press  to switch measurement units (m/ft/in/ft+in)

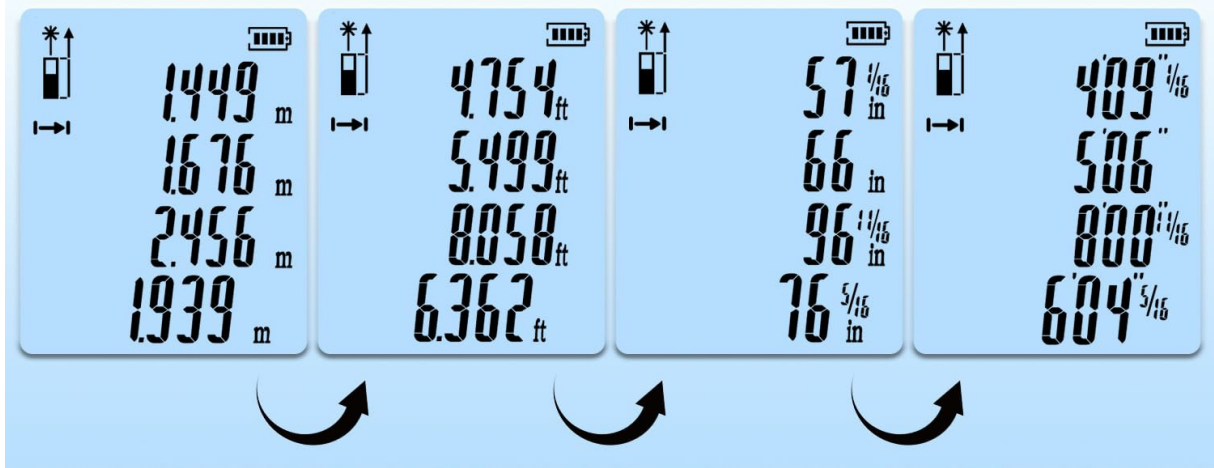


Image: The LG100's display showing multiple stored measurement values, demonstrating its data storage capability.

6.10. Addition and Subtraction

You can add or subtract measurements directly on the device.

1. Take a measurement.
2. Press the **Addition / Subtraction Button** () to select addition or subtraction.
3. Take the next measurement.
4. The device will display the calculated sum or difference.

6.11. Mute Function

To mute or unmute the device's audible feedback, press the **Clear (Return) / Mute Button** () for a short press.

6.12. Clear Function

To clear the last measurement or exit a menu, press the **Clear (Return) / Mute Button** ()

7. MAINTENANCE

7.1. Cleaning

Regularly clean the device, especially the laser lens and display, with a soft, damp cloth. Do not use abrasive cleaners or solvents.

7.2. Storage

When not in use for extended periods, remove the batteries to prevent leakage. Store the device in its portable bag in a cool, dry place, away from direct sunlight and extreme temperatures.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not turn on	Low or dead batteries; Incorrect battery polarity.	Replace batteries; Check battery orientation.
Inaccurate measurements	Unstable surface; Obstruction in laser path; Incorrect reference point; Extreme temperature changes.	Ensure stable measurement; Clear laser path; Verify reference point setting; Allow device to acclimate to temperature.
Laser beam not visible outdoors	Bright ambient light.	The green laser is brighter than red, but direct sunlight can still affect visibility. Use a target plate or measure in shaded areas if possible.
Display shows "Error"	Measurement out of range; Laser signal too weak or too strong.	Ensure target is within 328ft range; Measure on a suitable surface; Clean laser lens.

9. SPECIFICATIONS

Feature	Specification
Model	LG100
Measuring Range	Up to 328 ft (100 meters)
Accuracy	±1/16 inch (±2mm)
Laser Type	Green Beam, Class II, <1mW
Measurement Units	M / FT / IN / ft+in
Data Storage	100 records
IP Rating	IP54 (Dust and Splash Water Resistant)
Batteries	2 x 1.5V AA (included)
Automatic Laser Off	30 seconds (approx.)
Automatic Device Off	180 seconds (approx.)
Operating Temperature	0°C to 40°C (32°F to 104°F)
Storage Temperature	-20°C to 60°C (-4°F to 140°F)

Feature	Specification
Weight	100 Grams

10. WARRANTY AND SUPPORT

The LASELION LG100 Green-Beam Laser Distance Meter comes with a 12-month warranty from the date of purchase. This warranty covers manufacturing defects and ensures the product is free from defects in material and workmanship under normal use.

For warranty claims, technical support, or any questions regarding the product, please contact LASELION customer service through your retailer or the official LASELION support channels.

Please retain your purchase receipt as proof of purchase for warranty purposes.