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› LASGOO LG-ACC100 Laser Measurement Tool User Manual

LASGOO LG-ACC100

LASGOO LG-ACC100 Laser Measurement Tool User Manual

Model: LG-ACC100 | Brand: LASGOO

1. INTRODUCTION

The LASGOO LG-ACC100 Laser Measurement Tool is a precision instrument designed for accurate distance, area, and volume measurements. Equipped with an advanced angle sensor and multiple measurement modes, it provides reliable data for various applications, from home renovation to professional construction. This manual provides detailed instructions for the proper use, maintenance, and troubleshooting of your device.



Figure 1.1: LASGOO LG-ACC100 Laser Measurement Tool Overview

2. WHAT'S IN THE BOX

Upon opening the package, verify that all components are present and in good condition.

- LASGOO LG-ACC100 Laser Measurement Tool
- 2 x AA Batteries
- User Manual
- Hand Strap



Figure 2.1: Package Contents

3. PRODUCT FEATURES

- **High Accuracy:** Delivers measurements within 1/8 inch ($\pm 2\text{mm}$).
- **Extended Range:** Measures distances up to 100m (328ft).
- **Digital Angle Sensor:** Provides real-time angle display for precise adjustments.
- **Backlit LCD Display:** Easy-to-read display, even in low light conditions.
- **Multiple Measuring Modes:** Includes single, continuous, area, volume, Pythagorean (indirect height), and wall area measurements.
- **Data Storage:** Stores up to 100 sets of measurement data.
- **Unit Switching:** Easily switch between meters (m), feet (ft), and inches (in).
- **Addition/Subtraction Function:** Perform calculations directly on the device.
- **Durable Design:** Crafted from high-quality materials for long-lasting performance.



Figure 3.1: High Accuracy and Long Measurement Range

Real-Time Angle Sensor

Accurate Angle Display for Easy Adjustment
and Viewing



Figure 3.2: Real-Time Angle Sensor Display

Stores Up to 100 Data Sets



Figure 3.3: Data Storage and Measurement Functions

4. SETUP

4.1 Battery Installation

1. Locate the battery compartment cover on the back of the device.
2. Slide the cover open in the direction indicated by the arrow.

3. Insert two AA batteries, ensuring correct polarity (+/-) as marked inside the compartment.
4. Close the battery compartment cover securely until it clicks into place.



Figure 4.1: Battery Installation

4.2 Powering On/Off

- To power on the device, press the **Power/Measurement** button (green triangle button). The backlit LCD display will illuminate.
- To power off the device, press and hold the **Power/Measurement** button for approximately 3 seconds, or the device will automatically shut off after 180 seconds of inactivity to conserve battery life.

5. OPERATING INSTRUCTIONS

Simple Operation, One-Click Measurement

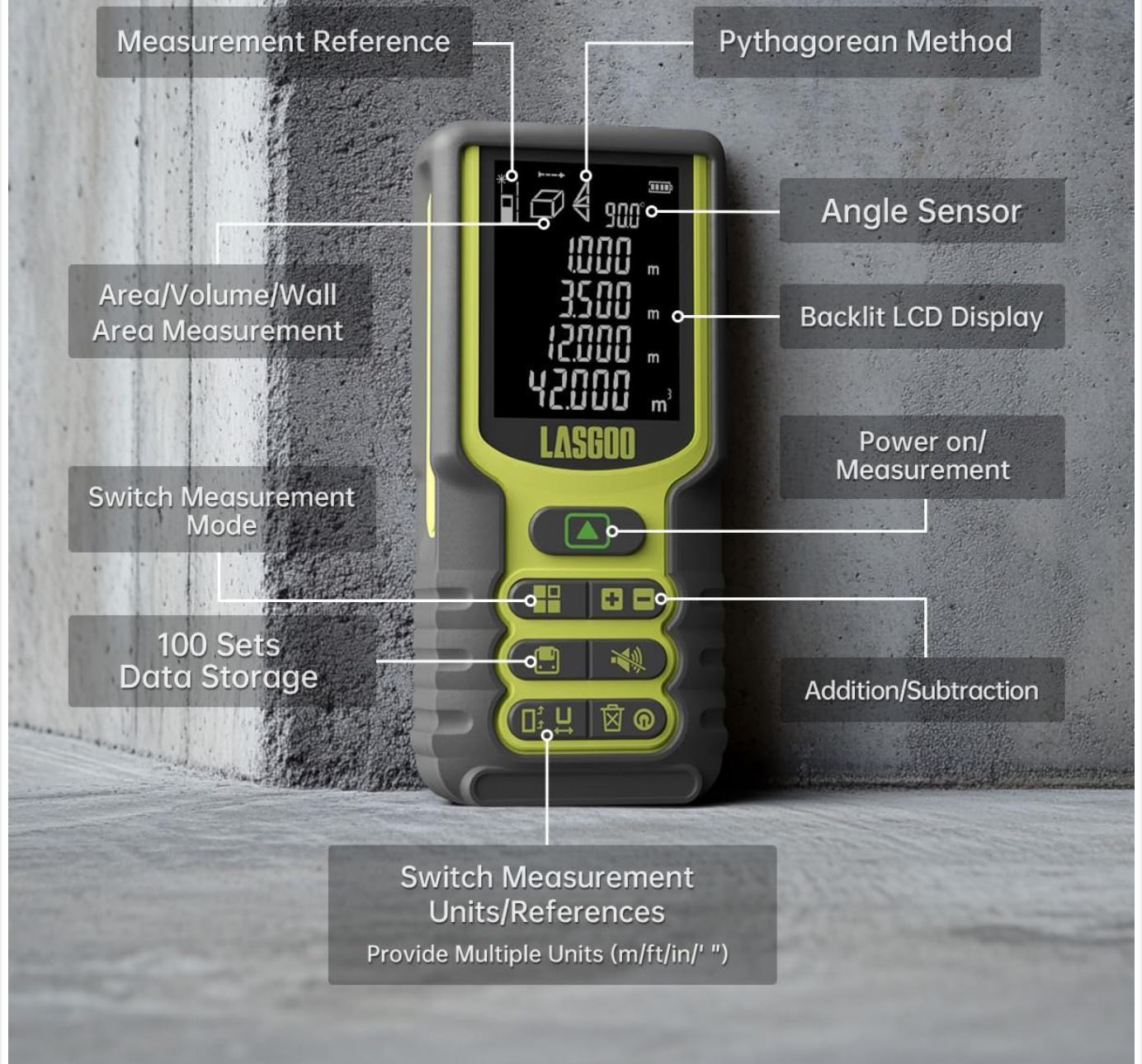


Figure 5.1: Device Layout and Button Functions

5.1 Basic Measurement (Single Measurement)

1. Power on the device.
2. Point the laser beam at the target surface.
3. Press the **Power/Measurement** button (green triangle button) once. The measurement will be displayed on the screen.

5.2 Continuous Measurement

Continuous measurement allows you to track distances in real-time as you move the device.

1. From standby mode, press and hold the **Power/Measurement** button.
2. The device will continuously measure and display the current distance. The minimum and maximum values during the continuous measurement will also be shown.
3. Press the **Power/Measurement** button again to stop continuous measurement.



Figure 5.2: Continuous Measurement Mode

5.3 Switching Measurement Units and Reference Point

The device supports meters (m), feet (ft), and inches (in). You can also change the measurement reference point (front or rear of the device).

- Press the **Unit/Reference** button (bottom right button with 'm/ft/in' icon) to cycle through measurement units.
- Press and hold the **Unit/Reference** button to switch the measurement reference point between the front edge and the rear edge of the device. An icon on the display will indicate the current reference point.



Figure 5.3: Adjusting Units and References

5.4 Multiple Measuring Modes

Press the **Function Mode** button (button with multiple squares icon) to cycle through the different measurement modes.

The display will show an icon indicating the active mode.

- **Area Measurement:** Measure length and width to calculate area.
- **Volume Measurement:** Measure length, width, and height to calculate volume.
- **Pythagorean Method (Indirect Height):** Calculate height indirectly using two or three measurements.
- **Wall Area Measurement:** Calculate the sum of areas of multiple walls.

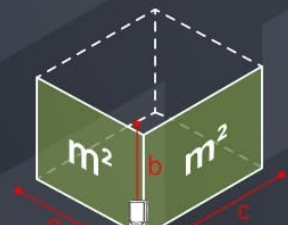
Multiple Measuring Modes

Area Measurement



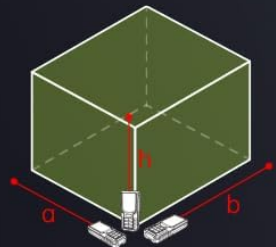
$$\text{Area} = a \times b$$

Wall Area Measurement



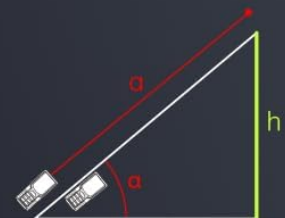
$$\text{Area} = a \times b + b \times c$$

Volume Measurement



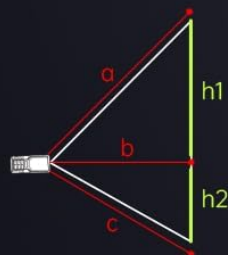
$$\text{Volume} = a \times b \times h$$

Pythagorean Method-1



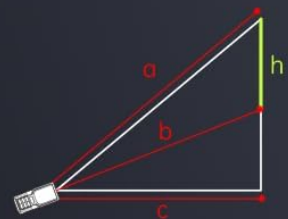
$$h = a \times \sin \alpha$$

Pythagorean Method-2



$$h_1 + h_2 = \sqrt{(a^2 - b^2)} + \sqrt{(c^2 - b^2)}$$

Pythagorean Method-3



$$h = \sqrt{(a^2 - c^2)} - \sqrt{(b^2 - c^2)}$$

Figure 5.4: Multiple Measurement Modes

5.5 Addition and Subtraction

After taking a measurement, you can add or subtract subsequent measurements.

- After a measurement, press the **Addition (+)** or **Subtraction (-)** button.
- Take the next measurement. The result will be added to or subtracted from the previous value.
- Press the **Power/Measurement** button to confirm the operation and display the final result.

5.6 Data Storage and Recall

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

- Measurements are automatically saved.
- Press the **History/Clear** button (button with folder icon) to view stored measurements.
- Use the **Addition (+)** and **Subtraction (-)** buttons to navigate through the stored data.
- To clear the current measurement or exit history mode, press the **History/Clear** button again.

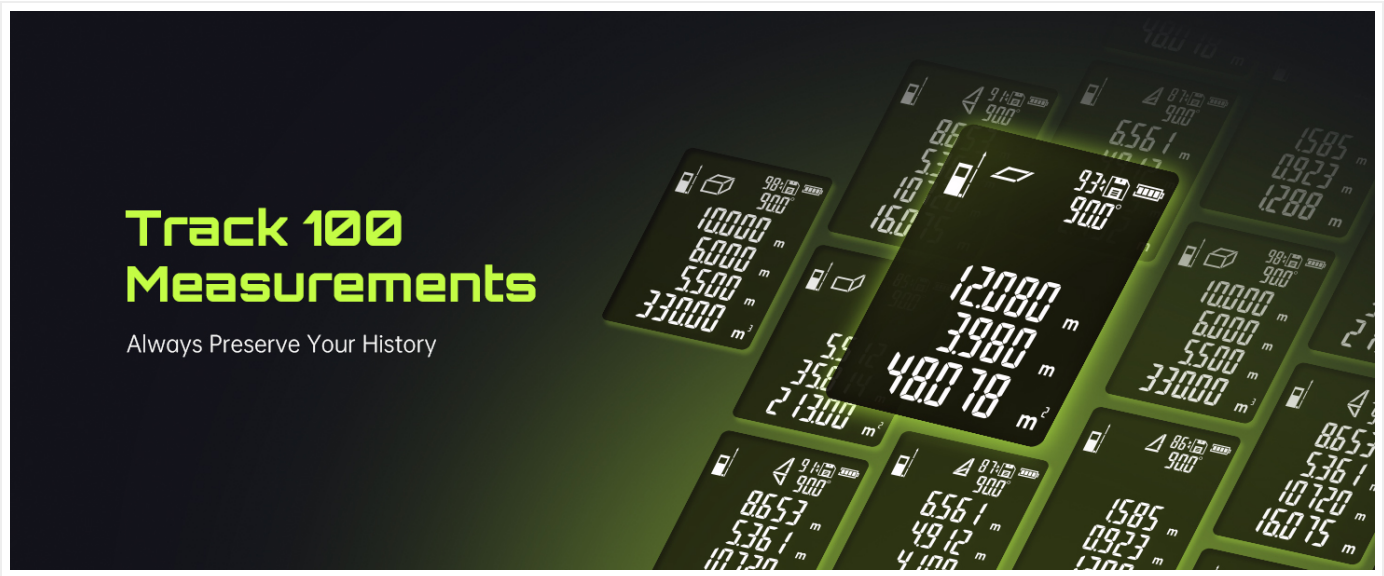


Figure 5.5: Tracking Stored Measurements

6. MAINTENANCE

- **Cleaning:** Use a soft, damp cloth to clean the device. Do not use abrasive cleaners or solvents.
- **Storage:** Store the device in a dry, cool place, away from direct sunlight and extreme temperatures. If storing for extended periods, remove the batteries to prevent leakage.
- **Laser Lens:** Keep the laser lens clean to ensure accurate measurements. Use a soft cloth or cotton swab to gently wipe the lens.
- **Battery Replacement:** Replace batteries when the low battery indicator appears on the display to ensure optimal performance.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	Batteries are dead or incorrectly installed.	Check battery polarity. Replace with new AA batteries.

Problem	Possible Cause	Solution
Inaccurate measurements.	Laser lens is dirty; measurement reference point is incorrect; target surface is too reflective or too dark.	Clean the laser lens. Verify the correct reference point. Use a target plate for difficult surfaces.
Display is dim or flickering.	Low battery power.	Replace batteries.
Cannot switch measurement modes.	Button not pressed correctly or device is in a specific sub-mode.	Ensure a firm press. Refer to Section 5.4 for mode switching. Power cycle the device if unresponsive.

8. SPECIFICATIONS

Specification	Detail
Brand	LASGOO
Model Number	LG-ACC100
Measuring Range	100m / 328ft
Accuracy	±1/8 inch (±2mm)
Units	m / ft / in
Laser Class	Class II, < 1mW
Battery Type	2 x AA Alkaline Batteries
Battery Life	> 5000 measurements
Data Storage	100 sets
Automatic Shut-off	180 seconds (laser off after 30 seconds)
International Protection Rating	IP54
Product Dimensions	2.24 x 1.14 x 5.04 inches (57 x 29 x 128 mm)
Item Weight	10.6 ounces (300g)
Color	Green
Material	Plastic

9. WARRANTY AND SUPPORT

The LASGOO LG-ACC100 Laser Measurement Tool comes with a **3-Year Manufacturer Warranty**. For warranty claims, technical support, or any inquiries regarding your device, please contact LASGOO customer service through the official channels provided at the time of purchase or on the manufacturer's website. Please retain your proof of purchase for warranty validation.



