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BILIPALA DM100G Laser Distance Measuring Tool User Manual

Model: DM100G (100m/328ft Green Laser)

1. INTRODUCTION

This manual provides detailed instructions for the safe and effective operation of your BILIPALA DM100G Laser Distance Measuring Tool. Please read this manual thoroughly before using the device and retain it for future reference.

The BILIPALA DM100G is a precision instrument designed for accurate distance, area, and volume measurements, featuring a bright green laser for enhanced visibility and multiple measurement modes.

2. SAFETY INFORMATION

WARNING: Laser Radiation

This device emits Class 2 laser radiation. Do not stare into the laser beam. Do not aim the laser beam at people or animals. Avoid direct eye exposure.

- Always operate the device in accordance with the instructions provided in this manual.
- Do not attempt to modify or disassemble the device.
- Keep the device out of reach of children.
- Use only specified batteries.
- Avoid using the device in explosive environments or near flammable materials.

3. PRODUCT OVERVIEW

3.1 Components

The BILIPALA DM100G Laser Distance Measuring Tool consists of the following main components:

- Laser Emitter/Receiver Lens
- LCD Display Screen

- Control Buttons
- Bubble Spirit Levels (Horizontal and Vertical)
- Battery Compartment
- Wrist Strap Eyelet

3.2 Device Layout and Display

Refer to the image below for an overview of the device's buttons and display indicators.



Figure 1: BILIPALA DM100G Device Layout. This image shows the front of the laser distance meter with its LCD screen displaying measurements and various buttons labeled for their functions, including the measure button, menu button, mute button, unit selection, power on/off, and clear button. It also highlights the battery status, memory icon, reference point indicators, and measurement mode symbols.





Figure 2: Front view of the BILIPALA DM100G. This image displays the device from the front, showing its bright green casing, LCD screen with measurement readings, and the arrangement of its control buttons.



Figure 3: Large Easy-Read LCD Screen. This image highlights the 2-inch backlit LCD display, showing clear measurement readings in various lighting conditions, emphasizing its readability.

4. SETUP

4.1 Battery Installation

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

The device requires 2 x 1.5V AA batteries (included).



Figure 4: Package Contents. This image displays the items included in the product package: the BILIPALA Laser Distance Measure, two AA batteries, a carrying bag, a wrist strap, and the user manual.

5. OPERATING INSTRUCTIONS

5.1 Power On/Off

- To power on: Press the **Power** button.
- To power off: Press and hold the **Power** button for 2 seconds. The device will also auto-shutoff after 150 seconds of inactivity.

5.2 Unit Switching

Press the **Unit** button to cycle through measurement units: meters (m), feet (ft), inches (in), and feet+inches (ft+in).

UNITS SWITCHABLE

Long press  to change units between m/ft/in/ft+in



Figure 5: Unit Switching. This image illustrates the device's ability to switch between different measurement units (meters, feet, inches, feet+inches) by pressing the 'Unit' button.

5.3 Reference Point Selection

The device can measure from the front, rear, or end-piece of the tool. Press the **Reference Point** button to select the desired reference point. The active reference point is indicated on the display.



Figure 6: Reference Point Selection and Bubble Levels. This image demonstrates how to select the measurement reference point (front, rear, or end-piece) and highlights the integrated bubble spirit levels for ensuring accurate horizontal and vertical alignment during measurements.

5.4 Single Distance Measurement

1. Point the laser at the target.
2. Press the **Measure** button once to activate the laser.
3. Press the **Measure** button again to take the measurement. The result will be displayed on the screen.

5.5 Continuous Measurement (Tracking)

1. Press and hold the **Measure** button for 2 seconds. The device will enter continuous measurement mode.
2. Move the device to track the distance. The maximum and minimum values will be displayed, along with the current distance.
3. Press the **Measure** button again to exit continuous measurement.

5.6 Area Measurement

1. Press the **Menu** button until the area measurement icon appears on the display.
2. Measure the first side (e.g., length) by pressing the **Measure** button.

3. Measure the second side (e.g., width) by pressing the **Measure** button.
4. The device will automatically calculate and display the area.

5.7 Volume Measurement

1. Press the **Menu** button until the volume measurement icon appears.
2. Measure the length, width, and height sequentially by pressing the **Measure** button after each dimension.
3. The device will automatically calculate and display the volume.

5.8 Pythagorean Measurement

The device supports three Pythagorean modes for indirect measurement of heights or distances.

1. Press the **Menu** button to select the desired Pythagorean mode (e.g., 2-point or 3-point).
2. Follow the on-screen prompts to take the required measurements (e.g., hypotenuse, base).
3. The device will calculate and display the indirect measurement.

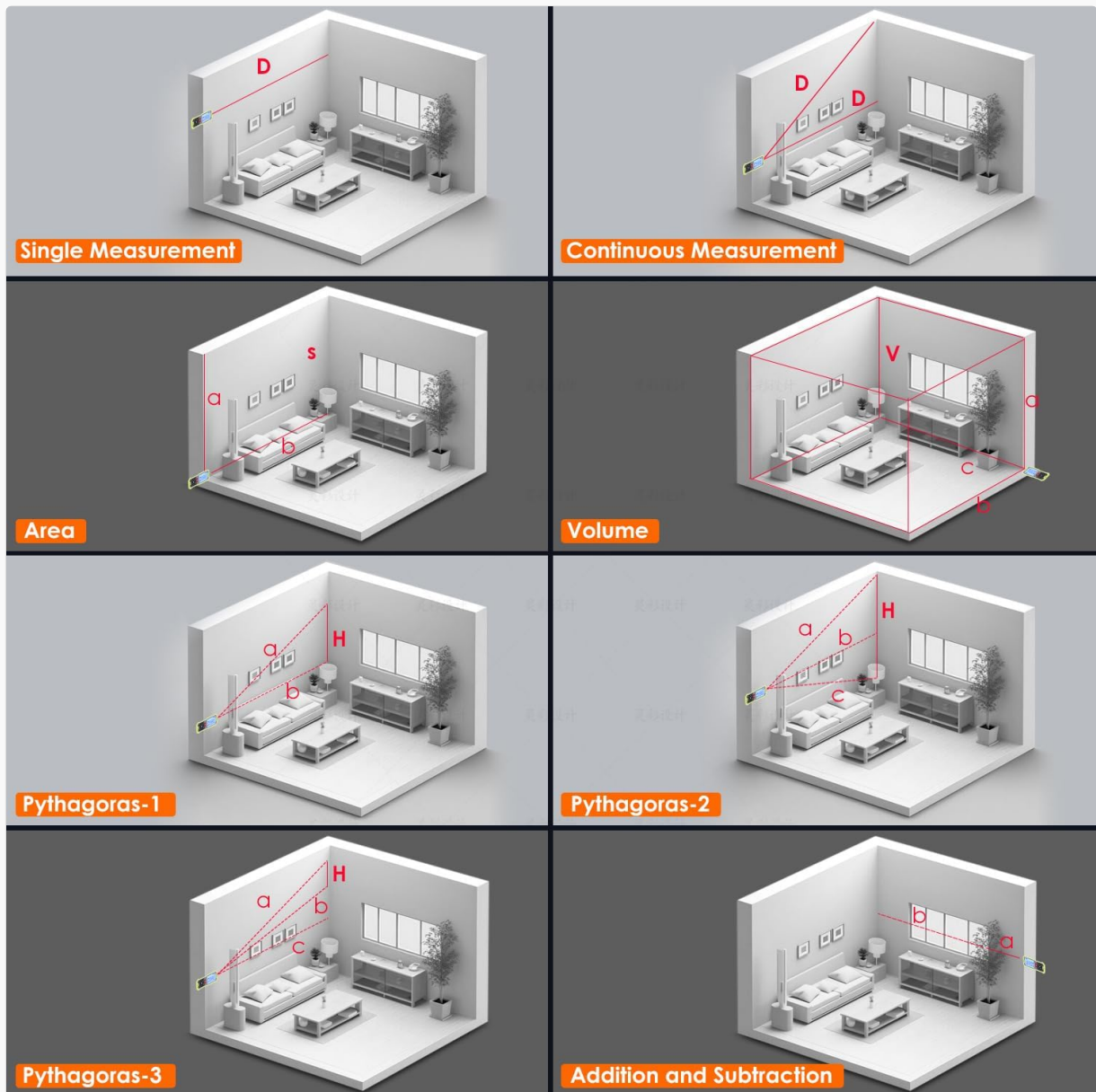


Figure 7: Measurement Modes. This diagram illustrates how to perform various measurements including single distance, continuous measurement, area, volume, and three types of Pythagorean calculations.

5.9 Addition and Subtraction

After taking a measurement, press the +/- button to enter addition or subtraction mode. Take another measurement, and the device will add or subtract it from the previous result.

5.10 Memory Function

The device can store up to 20 sets of measurement data. Press the **Memory** button to access stored data. Use the arrow buttons to navigate through the records.

6. MAINTENANCE

- **Cleaning:** Use a soft, damp cloth to clean the device. Do not use abrasive cleaners or solvents. Clean the laser lens with a soft cloth, similar to cleaning camera lenses.
- **Storage:** Store the device in its carrying bag in a cool, dry place when not in use. Remove batteries if storing for extended periods to prevent leakage.
- **Battery Replacement:** Replace batteries when the low battery indicator appears on the display.



Figure 8: Durability Features. This image highlights the device's IP54 waterproof and dustproof rating, indicating its resilience in various working conditions.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	Low or dead batteries; incorrect battery polarity.	Replace batteries; ensure correct polarity.
Inaccurate measurements.	Unstable surface; laser beam obstructed; incorrect reference point; strong ambient light.	Ensure stable measurement; clear obstructions; verify reference point; use in suitable lighting conditions.
Laser beam not visible outdoors.	Strong sunlight or bright ambient light.	Use a target plate; measure during overcast conditions or at dawn/dusk.
Display shows "Error".	Measurement range exceeded; poor reflection from target.	Ensure target is within range; use a reflective target if needed.

8. SPECIFICATIONS

Feature	Detail
Measuring Range	100 meters (328 feet)
Accuracy	±2mm
Laser Type	Green Laser (Class 2)
Response Time	0.5 seconds
Units	m / ft / in / ft+in
Measurement Modes	Distance, Area, Volume, Continuous, Pythagorean (3 modes), Addition/Subtraction
Memory Storage	20 data sets
Auto Shut-off	Laser: 20s, Device: 150s
Waterproof/Dustproof Rating	IP54
Batteries	2 x 1.5V AA Alkaline batteries
Dimensions	1.94"L x 1.18"W x 4.92"H
Item Weight	8.8 ounces
Material	Plastic

9. WARRANTY AND SUPPORT

BILIPALA provides a **24-month warranty** for this product. For technical support or warranty claims, please contact BILIPALA customer service through the retailer where the product was purchased or visit the official BILIPALA website.

The package includes: BILIPALA Laser Distance Measure, 2 x 1.5V AA Batteries, Carrying Bag, Wrist Strap, and a Multi-Language User Manual.