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› Deli DL4169 Laser Distance Measure User Manual

Deli DL4169

Deli DL4169 Laser Distance Measure User Manual

Model: DL4169

Brand: Deli

1. INTRODUCTION

The Deli DL4169 Laser Distance Measure is a precision instrument designed for accurate and efficient distance, area, and volume measurements. This device is suitable for a wide range of applications, from professional construction and real estate to DIY home projects. Its compact design, dual laser projection, and millimeter-level accuracy ensure reliable results.

Convenient Button Interface for User-Friendly Experience



Figure 1: Deli DL4169 Laser Distance Measure with its user-friendly button interface and clear display.

2. PRODUCT FEATURES

- **Extended Range Measurement:** Measures distances up to 80 meters (229 feet).
- **Millimeter-Level Accuracy:** Provides precise measurements for detailed tasks.
- **Dual Laser Projection:** Enhances accuracy and versatility by projecting from both ends.
- **Multiple Measurement Modes:** Includes continuous distance, volume, area, and Pythagorean mode.
- **Data Storage:** Stores up to 30 groups of measurements for easy retrieval and comparison.
- **Compact and Durable Design:** Portable and robust, designed for demanding work environments.
- **Automatic Shutdown:** Conserves battery life by automatically shutting down after 150 seconds of inactivity.
- **Inbuilt Spirit Level:** Assists in achieving level measurements.
- **Unit Conversion:** Easily switch between meters (m), inches (in), and feet (ft).

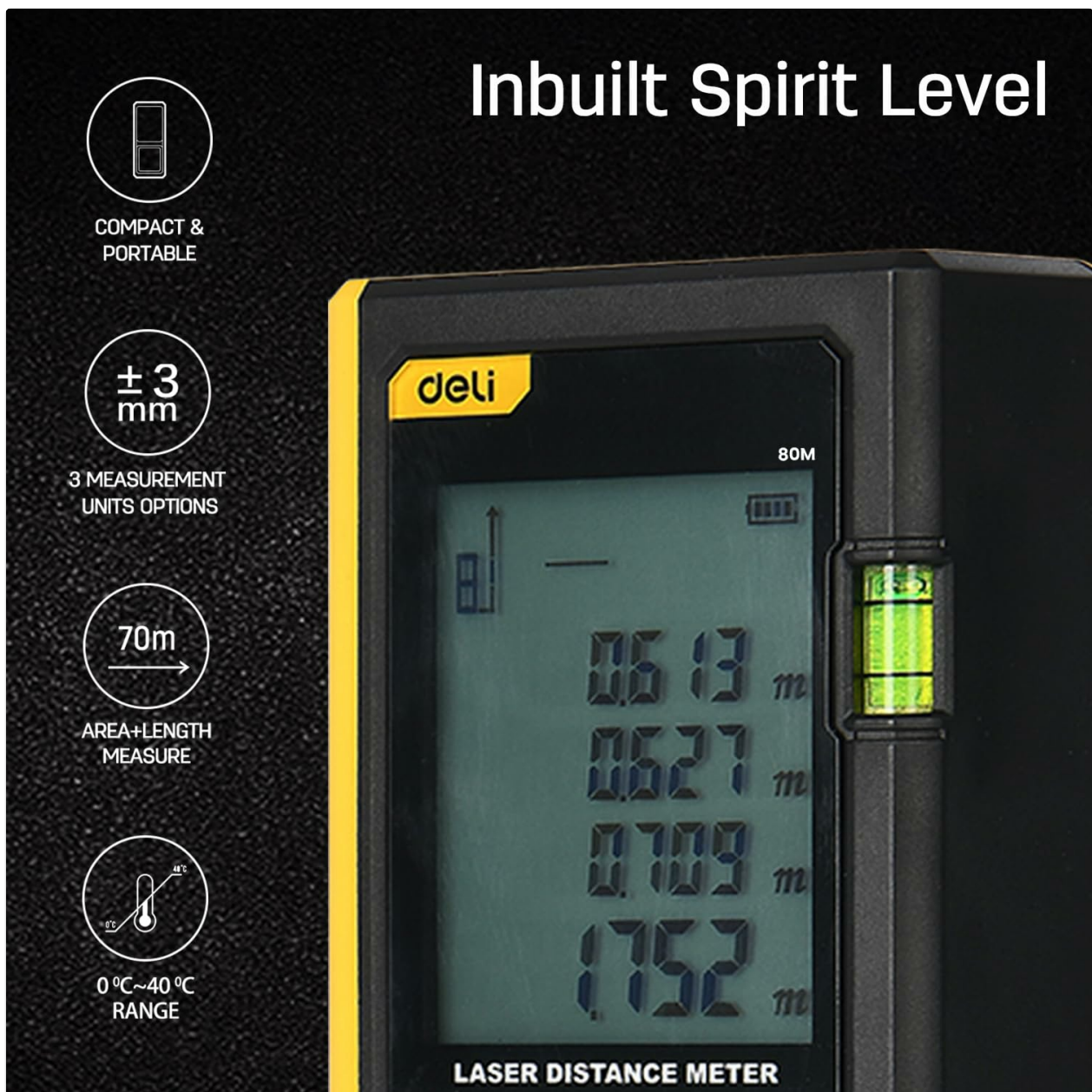


Figure 2: The Deli DL4169 features an inbuilt spirit level for precise alignment.

3. SETUP

3.1 Battery Installation

1. Locate the battery compartment cover on the rear of the device.
2. Slide the cover open in the direction indicated by the arrow.
3. Insert two AAA batteries, ensuring correct polarity (+/-).
4. Close the battery compartment cover securely.

Battery-Operated for Convenient Measurement



Figure 3: Battery installation for the Deli DL4169 Laser Distance Measure.

4. OPERATION

4.1 Power On/Off

- To power on, press the **MEAS** button. The laser will activate.
- To power off, press and hold the **OFF** button for approximately 3 seconds. The device will also automatically shut down after 150 seconds of inactivity.

4.2 Unit Selection

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

4.3 Reference Point Adjustment

The device can measure from its front edge or its rear edge. Press the **REF** button to switch the reference point. An icon on the display will indicate the current reference point.

5. MEASUREMENT MODES

5.1 Single Distance Measurement

1. Press the **MEAS** button once to activate the laser.
2. Aim the laser dot at the target point.
3. Press the **MEAS** button again to take the measurement. The result will be displayed.

5.2 Continuous Measurement (Tracking)

1. Press and hold the **MEAS** button for approximately 2 seconds. The device will enter continuous measurement mode.
2. Move the device to track the distance. The display will update in real-time, showing current, minimum, and maximum values.
3. Press the **MEAS** button again to exit continuous measurement mode.

5.3 Area Measurement

1. Press the **FUNC** button until the area icon (a square) appears on the display.
2. Measure the first side (length) by pressing **MEAS**.

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

5.4 Volume Measurement

1. Press the **FUNC** button until the volume icon (a cube) appears on the display.
2. Measure the length, width, and height sequentially by pressing **MEAS** after each dimension.
3. The device will automatically calculate and display the volume.

5.5 Pythagorean Measurement

The Pythagorean mode allows for indirect measurement of heights or distances using two or three measurements. Press the **FUNC** button until the desired Pythagorean icon appears (e.g., for two-point or three-point measurement).

1. Follow the on-screen prompts to take the required measurements (e.g., hypotenuse and one leg for a two-point measurement).
2. The device will calculate and display the unknown dimension.



Figure 4: The 650nm laser projection ensures precise targeting for measurements.

6. DATA STORAGE AND RECALL

The Deli DL4169 can store up to 30 groups of measurements.

- **Storing Measurements:** After a measurement is taken, it is automatically saved to the device's memory.
- **Recalling Measurements:** Press the **MEM** button to enter memory mode. Use the arrow buttons (if available, or cycle through with MEM) to browse through stored measurements.
- **Clearing Memory:** Refer to the on-screen menu or specific button combinations for clearing stored data, typically by holding the **OFF** or **CLR** button while in memory mode.

7. MAINTENANCE

- **Cleaning:** Use a soft, damp cloth to clean the device. Do not use abrasive cleaners or solvents. Ensure the laser lens is kept clean for accurate measurements.
- **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.
- **Battery Replacement:** Replace batteries when the low battery indicator appears on the display. Always use new, high-quality AAA batteries.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	Dead or incorrectly installed batteries.	Check battery polarity or replace with new batteries.
Inaccurate measurements.	Dirty laser lens, unstable surface, incorrect reference point, or environmental interference.	Clean the laser lens. Ensure a stable measurement surface. Verify the correct reference point is selected. Avoid measuring through glass or highly reflective surfaces.
Laser not visible.	Bright ambient light or laser not activated.	Use in lower light conditions or press the MEAS button to activate the laser.
Display shows "Error".	Measurement out of range or internal error.	Ensure target is within the 80m range. Restart the device. If the error persists, contact customer support.

9. SPECIFICATIONS

Feature	Specification
Model Number	DL4169
Measuring Range	Up to 80 meters (229 feet)
Accuracy	Millimeter-level (e.g., $\pm 3\text{mm} + 5 \times 10^{-5}D$)
Units of Measurement	m / in / ft

Feature	Specification
Data Storage	30 groups
Laser Type	650nm, Class 2
Automatic Shutdown	Laser: 30s, Device: 150s
Power Supply	2 x AAA batteries
Material	Acrylonitrile Butadiene Styrene
Water Resistance Level	IP54 (Waterproof)
Item Weight	147 Grams
Item Dimensions (L x W x H)	16.5L x 11W x 6.5H Centimeters
Operating Temperature	0°C to 40°C

10. SAFETY INFORMATION

- **Laser Safety:** This device emits a Class 2 laser. Do not stare directly into the laser beam or direct it at other people or animals. Avoid exposing eyes to direct or reflected laser light.
- **General Safety:** Keep the device out of reach of children. Do not attempt to modify or disassemble the device. Use only as instructed in this manual.
- **Environmental:** Dispose of batteries and the device according to local regulations. Do not dispose of with household waste.

11. WARRANTY AND SUPPORT

The Deli DL4169 Laser Distance Measure comes with a standard manufacturer's warranty. Please retain your purchase receipt for warranty claims.

For technical support, service, or warranty inquiries, please contact:

- **Manufacturer:** Deli Group Co., Ltd
- **Customer Care No.:** +86-0574-5997-6624
- **Importer:** ALLIN IMPEX SERVICES PRIVATE LIMITED