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HANMATEK DT100

HANMATEK DT100 100m Digital Laser Distance Meter User Manual

This manual provides detailed instructions for the safe and effective use of your HANMATEK DT100 Digital Laser Distance Meter. Please read thoroughly before operation.

Product Overview

The HANMATEK DT100 is a versatile and accurate digital laser distance meter designed for various measurement tasks. It features multiple measurement modes, a large backlit LCD screen, and robust construction for durability.



Figure 1: HANMATEK DT100 Laser Distance Meter and Accessories. The package includes the DT100 device, two AAA batteries, a user manual, and a protective pouch.

Key Features

- **High Accuracy:** Measures distances up to 100m (328 feet) with an accuracy of ± 1/16 inch.
- **Multiple Measurement Modes:** Supports single distance, continuous measurement, area, volume, and Pythagorean theorem (indirect measurement).
- **Unit Conversion:** Easily switch between meters (m), inches (in), feet (ft), and feet + inches (ft+in).
- **Large Backlit LCD Screen:** Provides clear visibility of measurements, even in low-light conditions.



Figure 2: Large Backlit Display for Enhanced Visibility.

- **Data Storage:** Stores up to 20 sets of measurement data for easy recall and comparison.



Figure 3: Data Storage Function Display.

- **Durable Design:** Wrapped in soft, wear-resistant, anti-slip rubber with an IP54 rating for protection against dust and water splashes.
- **Automatic Shutdown:** Powers off automatically after 150 seconds of inactivity to conserve battery life.

Setup

Battery Installation

The HANMATEK DT100 requires two AAA batteries (included). Follow these steps to install them:

1. Locate the battery compartment cover on the back of the device.
2. Slide the cover downwards to open the compartment.
3. Insert two AAA batteries, ensuring the correct polarity (+/-) as indicated inside the compartment.
4. Slide the battery cover back into place until it clicks securely.

Operating Instructions

Power On/Off

- To power on: Press the **Power** button (symbol: circle with vertical line).
- To power off: Press and hold the **Power** button for 3 seconds, or the device will automatically shut down after 150 seconds of inactivity.

Unit Conversion

To change the measurement unit (m/in/ft/ft+in):

- Press the **Unit** button (symbol: "Unit" text) repeatedly to cycle through the available units.

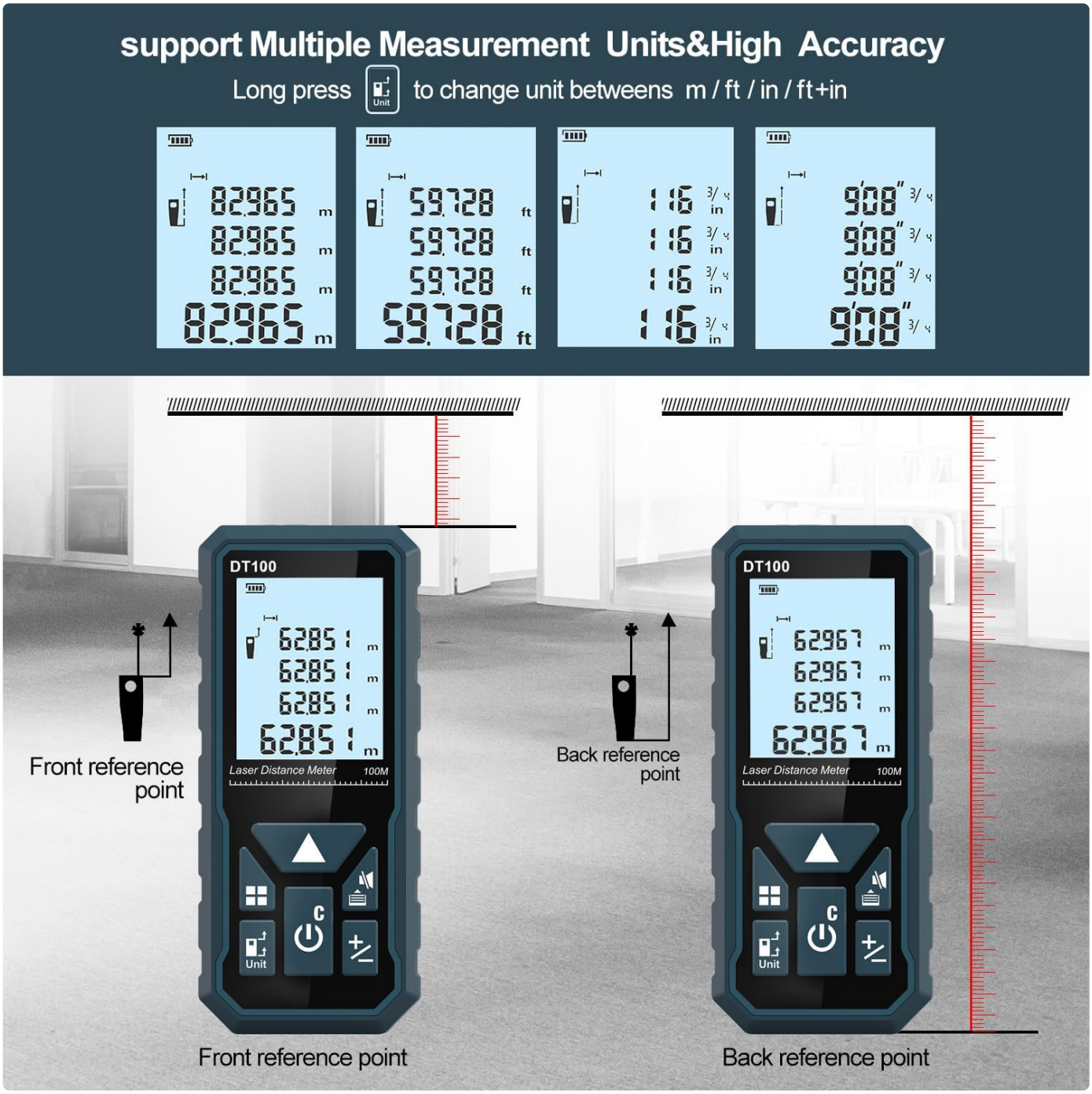


Figure 4: Unit Conversion and Reference Point Adjustment.

Measurement Modes

Press the **Function** button (symbol: square with four smaller squares inside) to select different measurement modes.

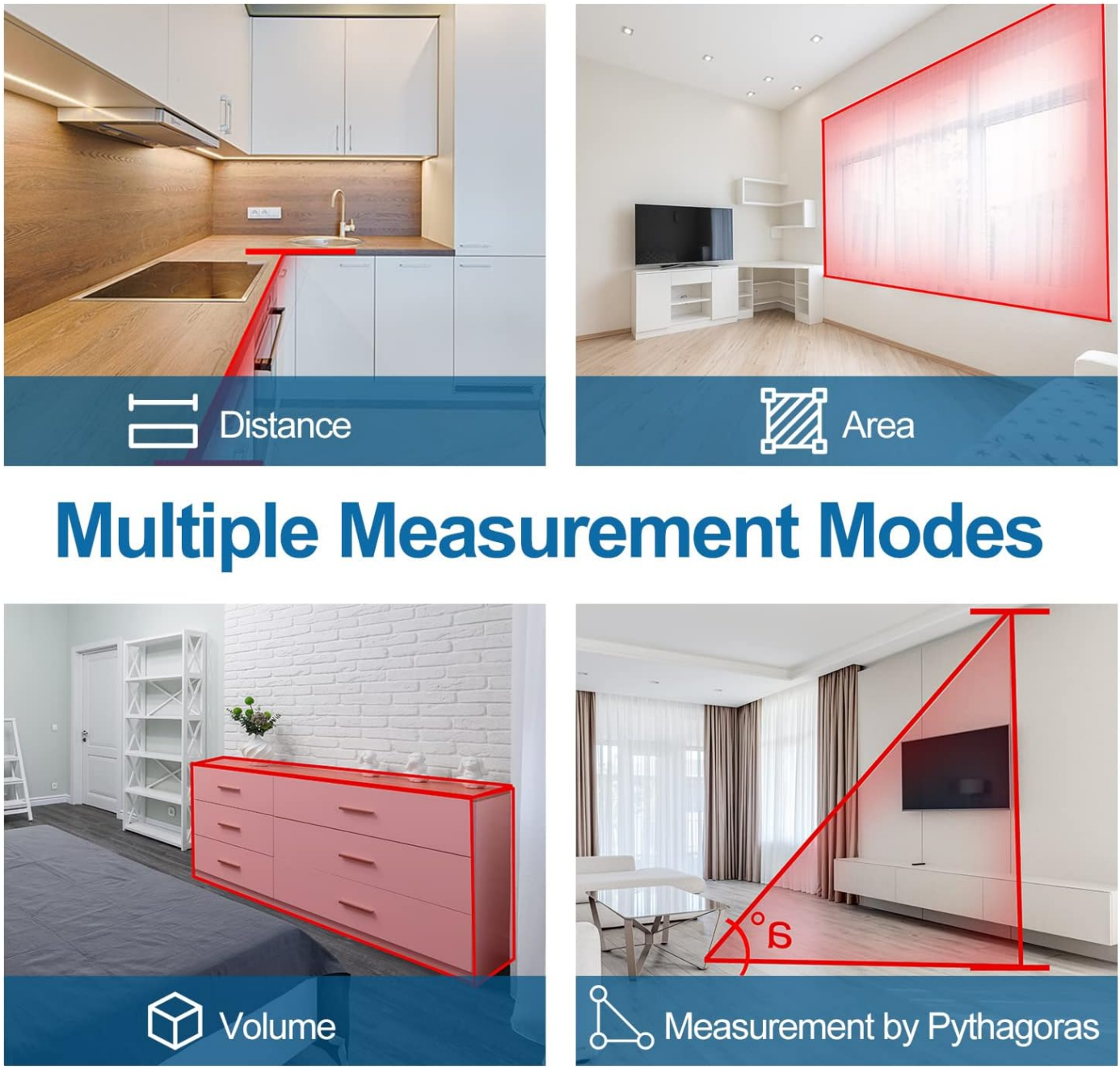


Figure 5: Multiple Measurement Modes.

1. **Single Distance Measurement:**
    - Select the single distance mode.
    - Point the laser at the target and press the**Measure** button (symbol: triangle pointing up). The distance will be displayed.
2. **Continuous Measurement (Tracking):**
    - Select continuous measurement mode.
    - The device will continuously measure and display the current distance as you move it. This mode also shows maximum and minimum values.
3. **Area Measurement:**
    - Select area measurement mode.
    - Measure the length, then the width. The device will automatically calculate and display the area.
4. **Volume Measurement:**

- Select volume measurement mode.
- Measure the length, width, then height. The device will automatically calculate and display the volume.

5. **Pythagorean Theorem Measurement (Indirect Measurement):**
    - Select one of the Pythagorean modes (e.g., single Pythagorean for height).
    - Follow the on-screen prompts to measure the required sides (hypotenuse, base). The device will calculate the unknown side.

Reference Point Adjustment

The DT100 allows you to set the measurement reference point from either the front or the back of the device.

- Press the **Reference Point** button (symbol: device icon with arrow) to toggle between front and back reference points. The current reference point is indicated on the display.

Maintenance

- **Cleaning:** Use a soft, damp cloth to clean the device. Do not use abrasive cleaners or immerse the device in water.
- **Storage:** Store the device in its protective pouch in a cool, dry place when not in use. Remove batteries if storing for extended periods to prevent leakage.
- **Laser Safety:** Do not stare directly into the laser beam. Avoid pointing the laser at people or animals. This is a Class 2 laser product.

Troubleshooting

Problem	Possible Cause / Solution
Device does not power on.	Check if batteries are installed correctly. Replace with new AAA batteries.
Inaccurate measurements.	Ensure the reference point is set correctly (front or back). Clean the laser lens. Ensure the target surface is reflective enough and stable. Avoid measuring through transparent surfaces like glass.
"Error" message on display.	Measurement out of range. Laser beam obstructed. Device malfunction. Try restarting the device.
Screen is dim or unreadable.	Batteries are low. Replace them. Adjust backlight settings if available (refer to specific button functions).

Specifications

Feature	Detail
Model	DT100

Feature	Detail
Measurement Range	0.05m - 100m (0.16 ft - 328 ft)
Measurement Accuracy	± 1/16 inch (± 2mm)
Units	m / in / ft / ft+in
Laser Class	Class 2, < 1mW
Laser Type	635nm
Data Storage	20 sets
Auto Laser Off	30 seconds
Auto Power Off	150 seconds
Dust & Splash Proof	IP54
Power Supply	2 x AAA batteries
Operating Temperature	0°C to 40°C (32°F to 104°F)
Storage Temperature	-20°C to 60°C (-4°F to 140°F)
Dimensions	15.4 x 9.8 x 4.7 cm (approx.)
Weight	200 grams (approx.)
Material	ABA (soft rubber casing)

Warranty and Support

The HANMATEK DT100 Laser Distance Meter comes with a**24-month warranty** from the date of purchase, covering manufacturing defects and workmanship. This warranty does not cover damage caused by misuse, accidents, unauthorized modifications, or normal wear and tear.
For technical support, warranty claims, or any inquiries regarding your product, please contact HANMATEK customer service through the retailer where you purchased the device or visit the official HANMATEK website for contact information.
Certifications: CE / FDA / FCC / ROHS

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