

DTAPE DT50

DTAPE DT50 Laser Measuring Tool User Manual

Model: DT50

1. INTRODUCTION

This manual provides detailed instructions for the safe and effective operation of your DTAPE DT50 Laser Measuring Tool. Please read this manual thoroughly before using the device to ensure proper functionality and to prevent damage or injury. The DTAPE DT50 is designed for high-accuracy distance, area, and volume measurements in various environments.

2. SAFETY INFORMATION

WARNING: Laser Radiation

This device emits Class 2 laser radiation. Do not stare into the laser beam. Avoid direct eye exposure. Do not aim the laser beam at people or animals. Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

- Do not attempt to modify or disassemble the device.
- Keep the device out of reach of children.
- Do not use the device in explosive environments or near flammable materials.
- Ensure the battery compartment is securely closed during operation.

3. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- 1x DTAPE DT50 Laser Measuring Tool
- 2x AAA Batteries
- 1x Carrying Pouch
- 1x Wrist Strap
- 1x User Manual



Image: Contents of the DTAPE DT50 package, including the device, batteries, carrying pouch, and wrist strap.

4. PRODUCT OVERVIEW

The DTAPE DT50 is a compact and robust laser distance meter designed for precise measurements. It features a backlit LCD display and intuitive button layout.





Image: Front view of the DTAPE DT50, showing the LCD screen and control buttons.

Key Features:

- **High Accuracy:** Delivers $\pm 1/16$ inch accuracy.
- **Measurement Range:** Measures distances up to 165 ft (50m).
- **Backlit LCD Display:** For easy reading in low-light conditions.
- **Multiple Units:** Easily switch between inches, feet, and meters.
- **Multi-Function:** Calculates area, distance, volume, and supports Pythagorean mode.
- **Data Memory:** Stores up to 20 groups of data.
- **Rugged Design:** IP54 dust/water resistance with an anti-slip rubber body.

2 inch

Larger Backlight Screen

Large backlight screen provides you with a better visibility in dark areas



Image: Side view of the DTAPE DT50, illustrating its compact dimensions (115mm length, 50mm width, 29mm height) and highlighting the 2-inch backlit screen and IP54 rating.

5. SETUP

5.1. Battery Installation

The DTAPE DT50 requires 2 AAA batteries (included). To install the batteries:

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

5.2. Power On/Off

- To power on: Press the **Power** button (central button with power symbol).
- To power off: Press and hold the **Power** button for a few seconds. The device will also automatically power off after 150 seconds of inactivity to conserve battery.

6. OPERATING INSTRUCTIONS

6.1. Basic Measurement

1. Power on the device.
2. Point the laser at the target object.
3. Press the **Measure** button (top arrow button) once to activate the laser.
4. Press the **Measure** button again to take the measurement. The result will be displayed on the screen.



HIGH ACCURACY

Accuracy up to $\pm 1/16$ inch, measuring distance extends to 165 feet/50m



Image: The DTAPE DT50 emitting a laser beam to measure a distance, demonstrating its high accuracy capability.

6.2. Changing Measurement Units

To cycle through measurement units (meters, feet, inches, feet+inches):

- Press the **UNIT** button (bottom left) repeatedly until your desired unit is displayed.

Support Multiple Measurement Units & High Accuracy

Long press the unit key to switch the unit

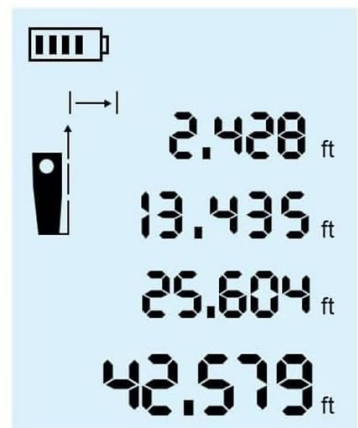
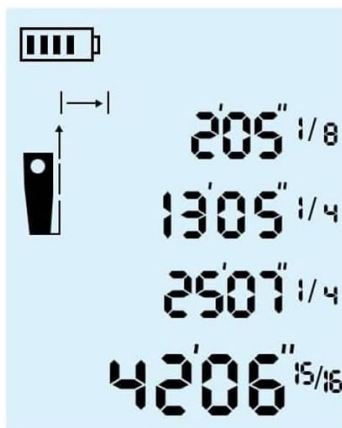
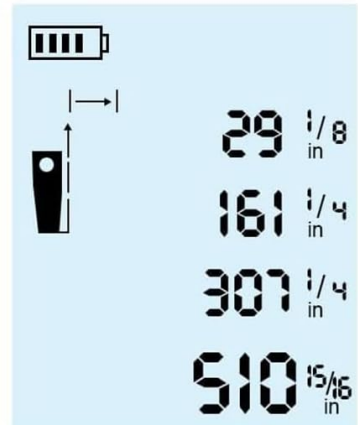
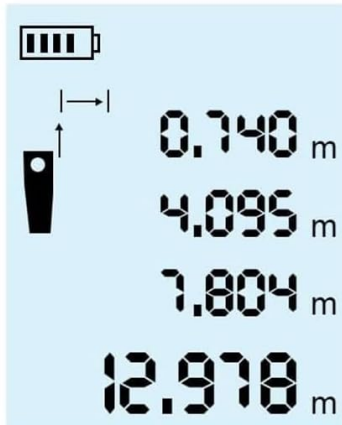


Image: The DTAPE DT50 display showing measurement results in meters, feet, and feet+inches, illustrating its multi-unit support.

6.3. Changing Measurement Reference Point

The device can measure from its front or rear edge. This is indicated by an icon on the display.

- Press the **Reference Point** button (top right, next to the speaker icon) to switch between front and rear reference points.

6.4. Mute Mode

To mute the device's sounds:

- Press the **Mute** button (speaker icon) to toggle sound on/off.

7. MEASUREMENT MODES

The DTAPE DT50 supports various measurement functions:

- **Single Distance Measurement:** Standard point-to-point measurement.
- **Continuous Measurement:** Displays real-time distance as you move the device.
- **Area Measurement:** Calculates the area of a rectangular space.
- **Volume Measurement:** Calculates the volume of a cubic space.
- **Pythagorean Measurement (3-point):** Calculates indirect distances using the Pythagorean theorem.
- **Addition/Subtraction:** Add or subtract measurements.

7.1. Selecting Measurement Mode

To select a measurement mode:

- Press the **Function** button (grid icon, bottom left) repeatedly to cycle through the available modes. The icon for the selected mode will appear on the display.

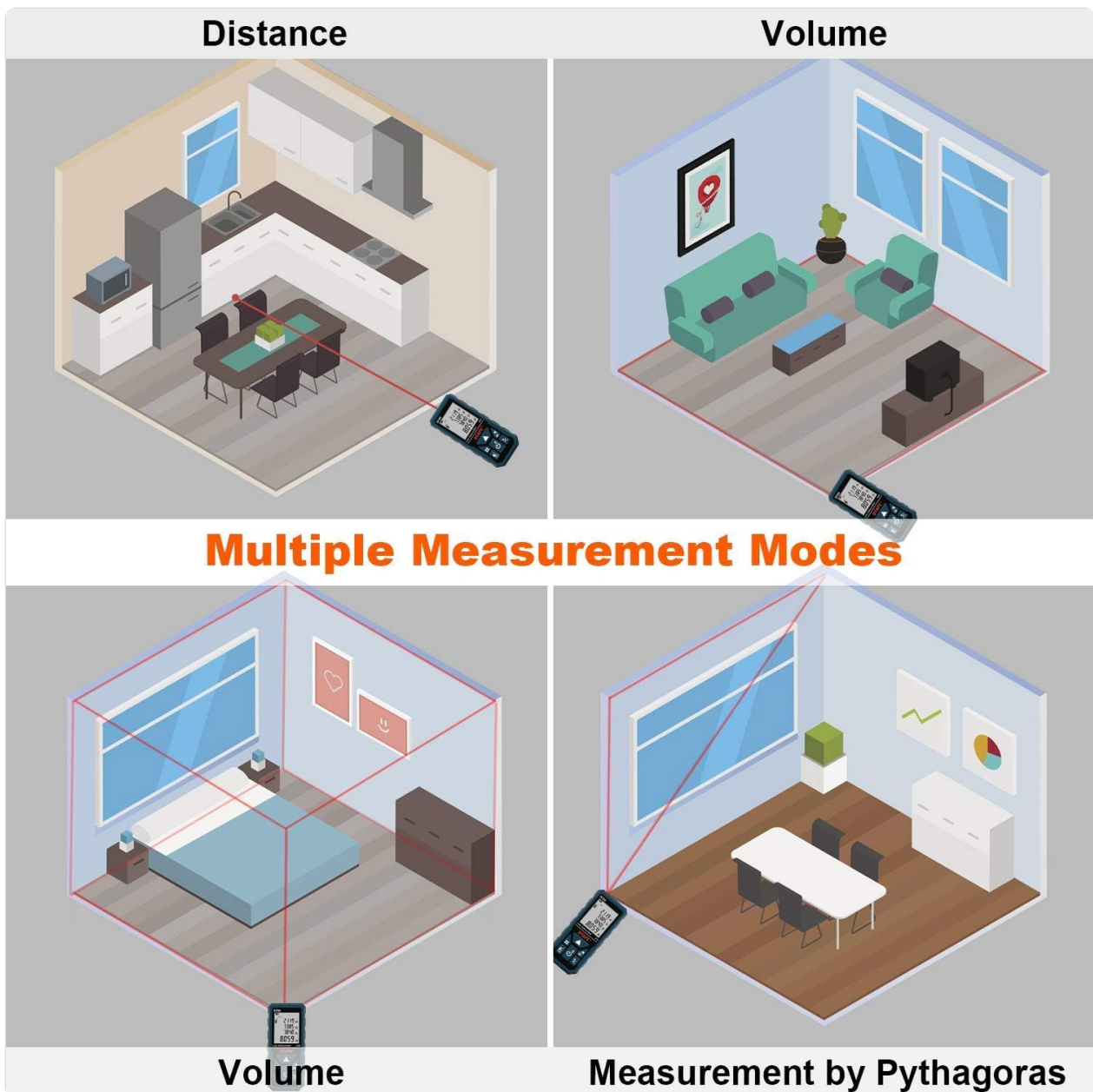


Image: Visual representation of different measurement modes, including distance, volume, and Pythagorean calculations, showing how the device is used in various scenarios.

8. DATA MANAGEMENT

8.1. Viewing Stored Data

The DTAPE DT50 can store up to 20 groups of measurement data.

- Press the **Memory** button (top left, with stacked lines icon) to view historical records.
- Use the arrow buttons to navigate through the stored measurements.

Data Storage Function

View up to 20 historical records simultaneously on screen.

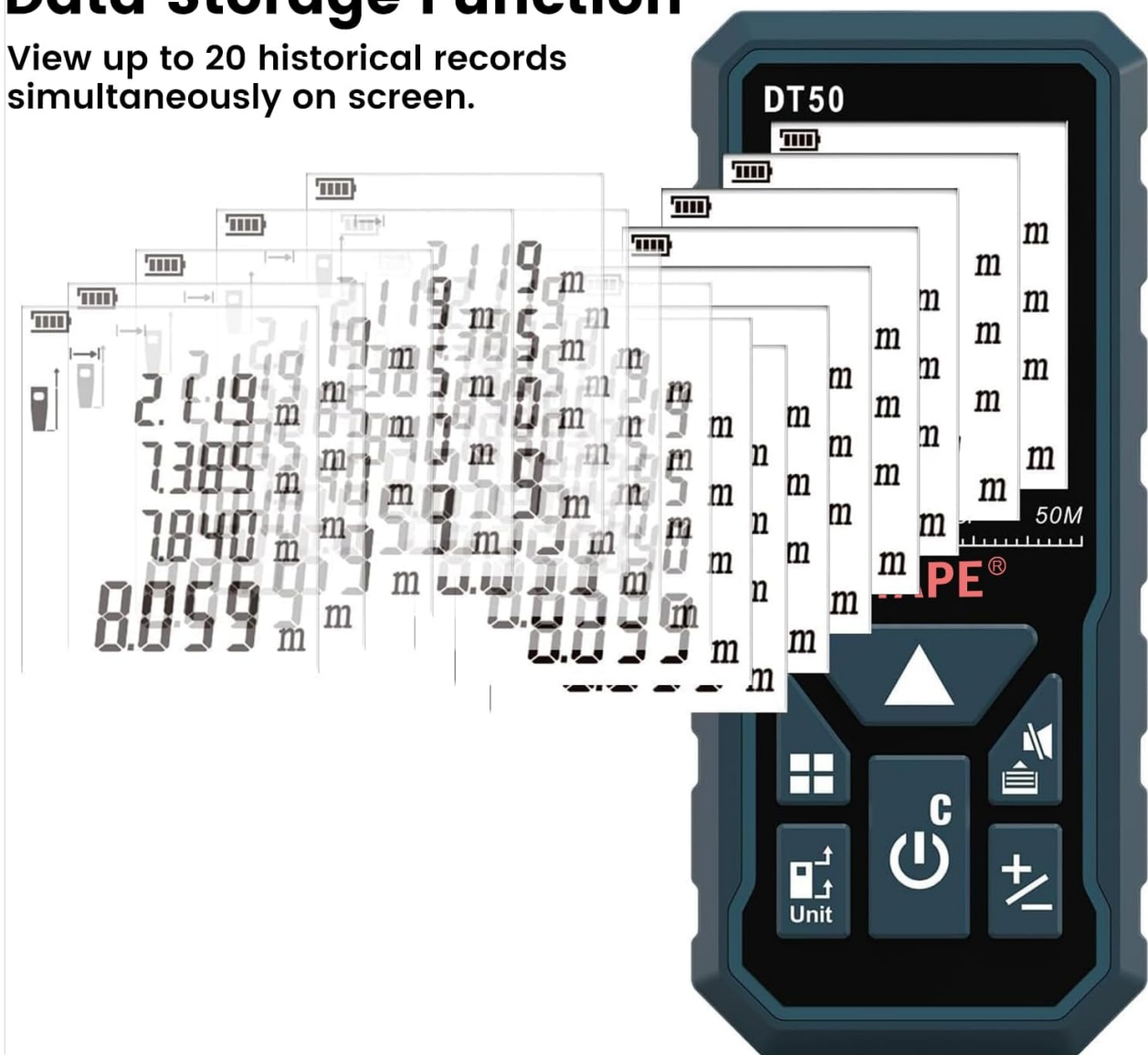


Image: The DTAPE DT50 display showing multiple historical measurement records, demonstrating its data storage capability.

8.2. Clearing Data

To clear the current measurement or exit a mode:

- Press the **Clear/Off** button (C button) to clear the last measurement or return to the previous screen.

9. MAINTENANCE

- Clean the device with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- Do not immerse the device in water, despite its water resistance.
- Store the device in its carrying pouch when not in use to protect it from dust and impacts.
- Remove batteries if the device will not be used for an extended period to prevent leakage.

10. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	Low or dead batteries. Incorrect battery installation.	Replace batteries. Check battery polarity.
Inaccurate measurements.	Obstruction in laser path. Unstable surface. Extreme temperatures.	Ensure clear laser path. Measure from a stable surface. Use within specified temperature range.
Display is dim or unreadable.	Low battery.	Replace batteries.
Device freezes or is unresponsive.	Temporary software glitch.	Remove and reinsert batteries to reset the device.

11. SPECIFICATIONS

Feature	Detail
Brand	DTAPE
Model Number	DT50
Measuring Range	165 feet (50 meters)
Accuracy	±1/16 inch
Units	in/Ft/Ft+in/M
Display	Backlit LCD

Feature	Detail
Power Source	2x AAA Alkaline batteries
International Protection Rating	IP54
Material	Acrylonitrile Butadiene Styrene
Item Weight	0.21 Kilograms (7.4 ounces)
Product Dimensions	4.53"L x 1.97"W x 1.14"H

12. WARRANTY AND SUPPORT

Your DTAPE DT50 Laser Measuring Tool comes with a 24-month warranty from the date of purchase. This warranty covers manufacturing defects and ensures the product meets its specified performance standards under normal use.

For warranty claims, technical support, or any inquiries regarding your device, please contact DTAPE customer service through the following channels:

- Refer to the contact information provided on the product packaging or the official DTAPE website.
- Visit the [DTAPE Store on Amazon](#) for additional resources and support.

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