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› LASELION LT50 Laser Distance Meter 165ft (50m) User Manual

LASELION LT50

LASELION LT50 Laser Distance Meter User Manual

Model: LT50 | Range: 165ft (50m)

INTRODUCTION

This manual provides detailed instructions for the safe and effective use of your LASELION LT50 Laser Distance Meter. The LT50 is a high-precision measurement tool designed for various applications, offering a maximum range of 50 meters (165 feet). It features multiple measurement modes, a built-in level bubble, and a mute function for versatile and convenient operation. Please read this manual thoroughly before using the device.



Image: Front view of the LASELION LT50 Laser Distance Meter, displaying its screen and control buttons.

PRODUCT OVERVIEW

Package Contents

The LASELION LT50 package includes the following items:

- 1 x LASELION LT50 Laser Distance Meter
- 2 x AAA Batteries
- 1 x User Manual
- 1 x Carrying Pouch
- 1 x Wrist Strap



Image: Contents of the LASELION LT50 package, including the device, batteries, manual, pouch, and wrist strap.

Key Features

- **50m (165ft) Maximum Range:** Capable of measuring distances up to 50 meters with high precision.
- **Multiple Measurement Functions:** Supports area, volume, continuous measurement, and Pythagorean theorem modes.
- **Built-in Level Bubble:** Ensures accurate horizontal alignment for reliable results.
- **Mute Function:** Allows for silent operation in sensitive environments.
- **Unit Conversion:** Easily switch between metric (m) and imperial (ft/in) units.

- **Automatic Storage:** Stores up to 100 data sets.
- **Durable Design:** IP54 splash-proof and dustproof for use in various environments.
- **Compact & Portable:** Lightweight and easy to carry.

Device Layout and Buttons



Image: Diagram illustrating the LASELION LT50's display icons and button functions, including Measure, Menu, Addition/Subtraction, Continuous Measurement, Memory, Unit, Clear/Mute, and Power ON/OFF.

Refer to the diagram above for the location and function of each button and display icon:

- **Measure Button:** Initiates a measurement.
- **Menu Button:** Accesses measurement modes and settings.
- **Addition + / Subtraction - Button:** Performs calculations.
- **Continuous Measurement Button:** Activates continuous measurement mode.
- **Memory Button:** Accesses stored measurements.
- **Unit Button:** Switches measurement units and reference points.
- **Clear (Return) / Mute Button:** Clears current measurement or mutes sound.

- **Power ON / OFF Button:** Turns the device on or off.

SETUP

Battery Installation

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

The device requires 2 x 1.5V AAA alkaline batteries. New batteries are included in the package.

OPERATING INSTRUCTIONS

Power On/Off

- To turn on: Press the **Power ON / OFF** button.
- To turn off: Press and hold the **Power ON / OFF** button for a few seconds. The device will also automatically shut off after a period of inactivity.

Setting Reference Point and Units

The LT50 allows you to set the measurement reference point from either the front or the back of the device. You can also switch between different measurement units.

- To switch reference points (front/back): Short press the **Unit** button.
- To switch measurement units (m/ft/in/ft+in): Long press the **Unit** button.

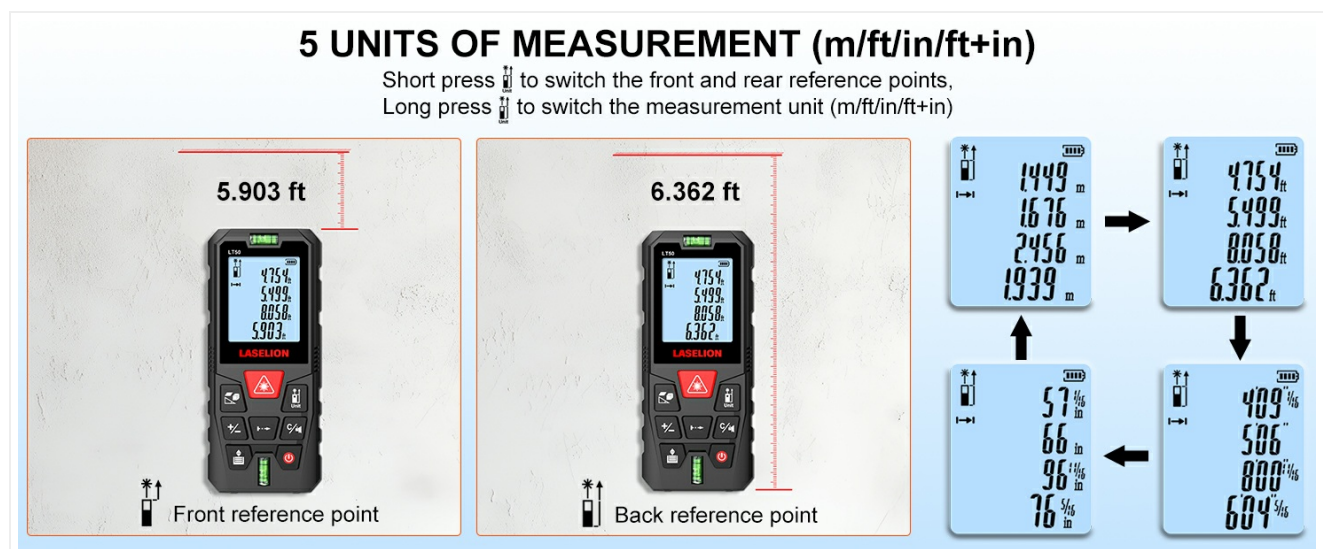


Image: Visual guide demonstrating how to switch between front and back reference points and cycle through measurement units (meters, feet, inches, feet+inches) on the LASELION LT50 display.

Basic Distance Measurement

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

Measurement Modes

The LT50 offers several measurement modes for various applications. Press the **Menu** button to cycle through the available modes.

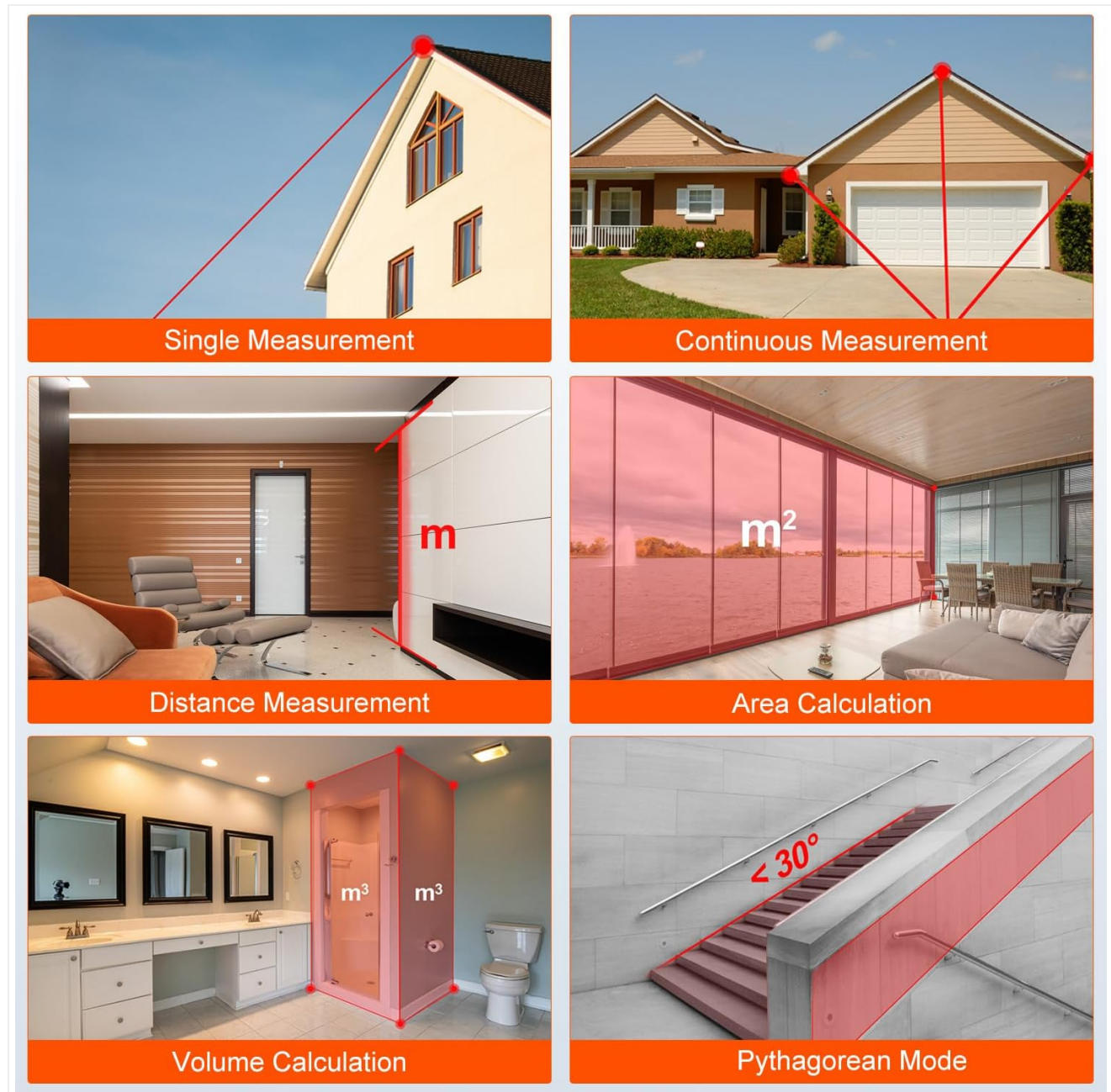


Image: Examples of various measurement modes including single measurement, continuous measurement, distance measurement, area calculation, volume calculation, and Pythagorean mode.

- **Single Measurement:** Standard distance measurement.
- **Continuous Measurement (Min/Max):**

Press the **Continuous Measurement** button. The device will continuously measure and display the current, minimum, and maximum distances. Press the button again to stop.



Image: Display showing continuous measurement with minimum and maximum values.

- **Area Measurement:**

Select area mode. Take two consecutive distance measurements (length and width). The device will automatically calculate and display the area.

- **Volume Measurement:**

Select volume mode. Take three consecutive distance measurements (length, width, and height). The device will automatically calculate and display the volume.

- **Pythagorean Mode:**

Used for indirect measurement of heights or distances. Follow the on-screen prompts to measure the hypotenuse and one leg of a right-angled triangle. The device will calculate the unknown side.

Addition and Subtraction

The LT50 can add or subtract measurements.

- Take the first measurement.
- Press the **Addition + / Subtraction -** button (short press for addition, long press for subtraction).
- Take the second measurement. The result of the calculation will be displayed.

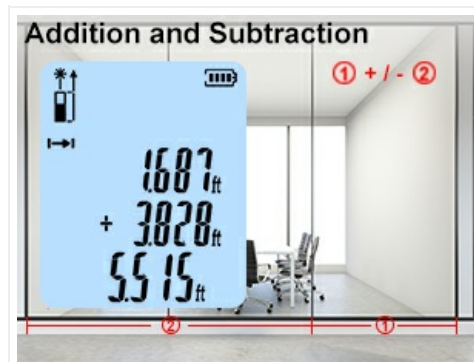


Image: Display showing an example of adding two measurements together.

Mute Function

To operate the device silently, activate the mute function.

- Long press the **Clear (Return) / Mute** button to toggle the key tone on or off.



Image: The mute function icon on the display, indicating the device is operating without key tones.

Automatic Storage

The device automatically stores up to 100 sets of measurement data. When the memory is full, the oldest record will be overwritten by the newest measurement.

- To view stored data: Press the **Memory** button.
- Use the arrow buttons (if available, or cycle through with Memory button) to navigate through the stored records.



Image: The LASELION LT50 displaying multiple stored measurement values, illustrating its automatic data storage capability.

MAINTENANCE

- **Cleaning:** Use a soft, damp cloth to clean the device. Do not use abrasive cleaners or solvents.
- **Storage:** Store the device in its carrying pouch in a cool, dry place when not in use. Remove batteries if storing for extended periods to prevent leakage.
- **Laser Lens:** Keep the laser lens clean to ensure accurate measurements. Use a soft cloth, similar to cleaning camera lenses.
- **Water and Dust Resistance:** The device is IP54 rated, meaning it is protected against dust ingress and splashing water. However, it is not fully waterproof and should not be submerged.



Image: The LASELION LT50 shown in dusty and wet environments, illustrating its dustproof and IP54 splash-proof capabilities.

TRoubleshooting

Problem	Possible Cause	Solution
Device does not turn on	Low or dead batteries; incorrect battery installation.	Replace batteries with new AAA batteries; ensure correct polarity.
Inaccurate measurements	Dirty laser lens; unstable measurement surface; incorrect reference point setting; strong light interference.	Clean the laser lens; ensure a stable measurement; verify reference point; measure in shaded areas if possible.
Laser not visible	Bright ambient light; long distance measurement.	Measure in lower light conditions; use a target plate for long distances.
Display error message	Measurement out of range; internal error.	Ensure target is within 50m (165ft) range; restart the device. If error persists, contact support.

SPECIFICATIONS

Feature	Detail
Brand	LASELION
Model Number	LT50
Measuring Range	50 meters (165 feet)
Accuracy	±1/16 inch (±2mm)
Measurement Speed	0.5 seconds
Laser Class	Class II, Power Output <1mW
Units of Measurement	m, ft, in, ft+in
Automatic Storage	Up to 100 data sets
Battery Type	2 x 1.5V AAA Alkaline Batteries
Material	Acrylonitrile Butadiene Styrene
Color	Black
Item Weight	100 Grams (3.53 ounces)
Dimensions	5.87 x 3.74 x 1.85 inches (Package Dimensions)
IP Rating	IP54 (Dustproof, Splash-proof)

WARRANTY AND SUPPORT

The LASELION LT50 Laser Distance Meter comes with a**1-year warranty** from the date of purchase. For technical support, warranty claims, or any questions regarding your device, please contact LASELION customer service through the retailer where the product was purchased or refer to the contact information provided in the included user manual.