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## Kiprim LD100E

# Kiprim LD100E Laser Distance Meter User Manual

Model: LD100E

## 1. INTRODUCTION

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Thank you for choosing the Kiprim LD100E Laser Distance Meter. This digital device is designed for precise and efficient measurement of distances, areas, and volumes. It features multiple measurement modes, data storage capabilities, and a backlit LCD for clear readability in various environments. Please read this manual thoroughly before using the device to ensure safe and correct operation.



Image 1.1: Kiprim LD100E Laser Distance Meter and included accessories (lanyard, batteries, reflector, pouch).

## 2. SAFETY INFORMATION

Always observe the following safety precautions to prevent injury or damage to the device:

- Do not stare directly into the laser beam or point it at people or animals.
- This device emits Class 2 laser radiation. Use caution.
- Do not attempt to modify or disassemble the device.
- Keep the device out of reach of children.
- Avoid using the device in explosive or corrosive environments.
- Protect the device from extreme temperatures, moisture, and strong vibrations.

## 3. SETUP

### 3.1. Battery Installation

The Kiprim LD100E requires two AAA batteries for operation. These are typically included with your purchase.

1. Locate the battery compartment cover on the back of the device.

2. Slide the cover open.
3. Insert two AAA batteries, ensuring correct polarity (+/-) as indicated inside the compartment.
4. Close the battery compartment cover securely.

### 3.2. Initial Power On

Press the **READ** button to turn on the device. The LCD screen will illuminate, and the laser will activate for measurement.

## 4. OPERATING INSTRUCTIONS

### 4.1. Device Overview and Buttons



Image 4.1: Key functions and components of the Kiprim LD100E.

The device features a large backlit screen and two bubble levels for accurate horizontal and vertical alignment.

- **READ Button:** Powers on the device and initiates measurements.
- **Area/Volume/Pythagorean Mode / Save Button:** Cycles through measurement modes and saves data.
- **Addition & Subtraction / Sound Button:** Performs calculations and toggles sound.
- **Reference Point / Unit Switch Button:** Changes the measurement reference point and switches units.

- **OFF / CLEAR Button:** Turns off the device or clears the current measurement.

## 4.2. Basic Distance Measurement

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

## 4.3. Changing Measurement Units

To switch between measurement units (meters, inches, feet, feet+inches), long press the **Reference Point / Unit Switch** button.

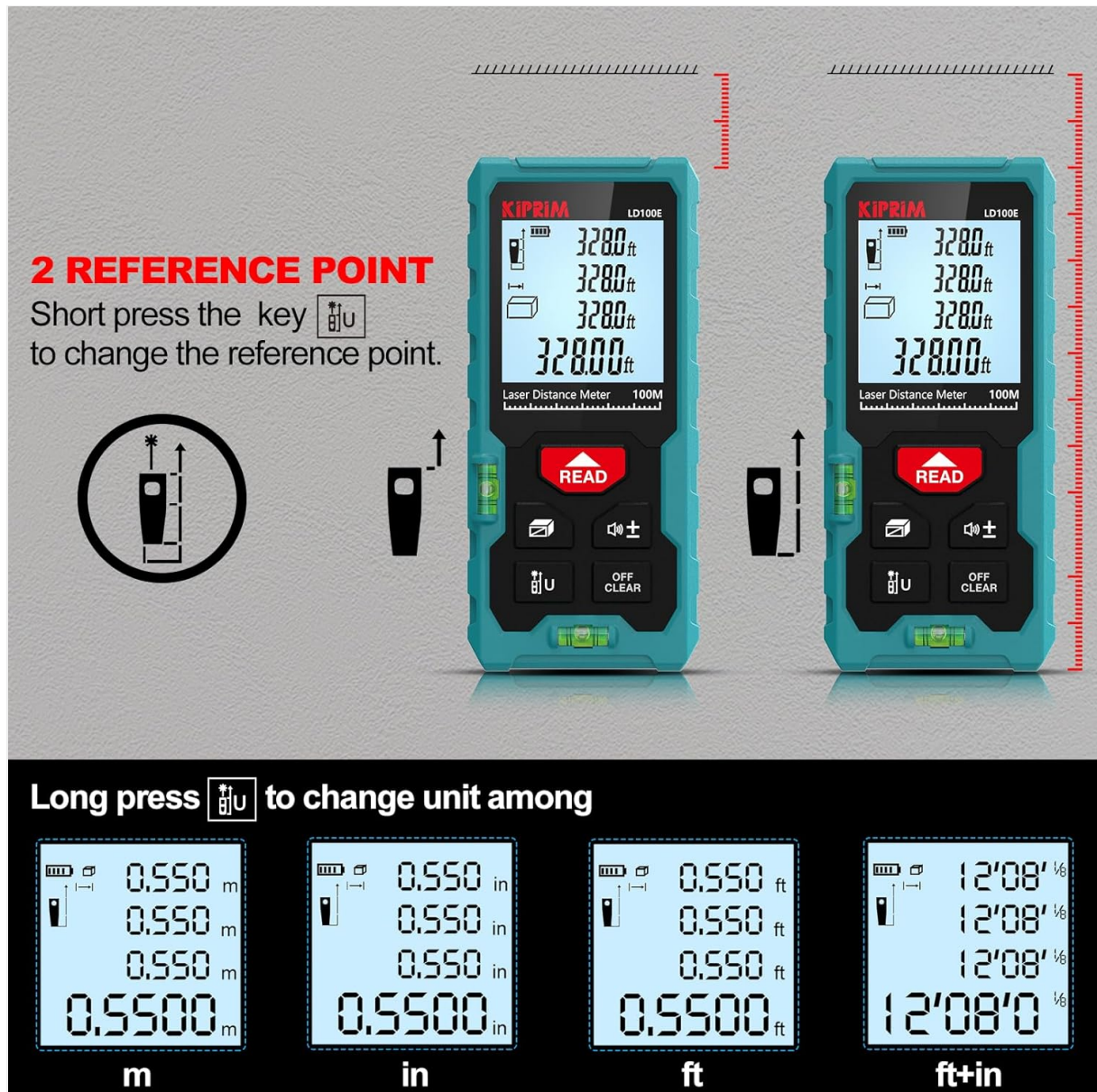


Image 4.2: Displaying measurements in meters, inches, feet, and feet+inches.

## 4.4. Setting the Reference Point

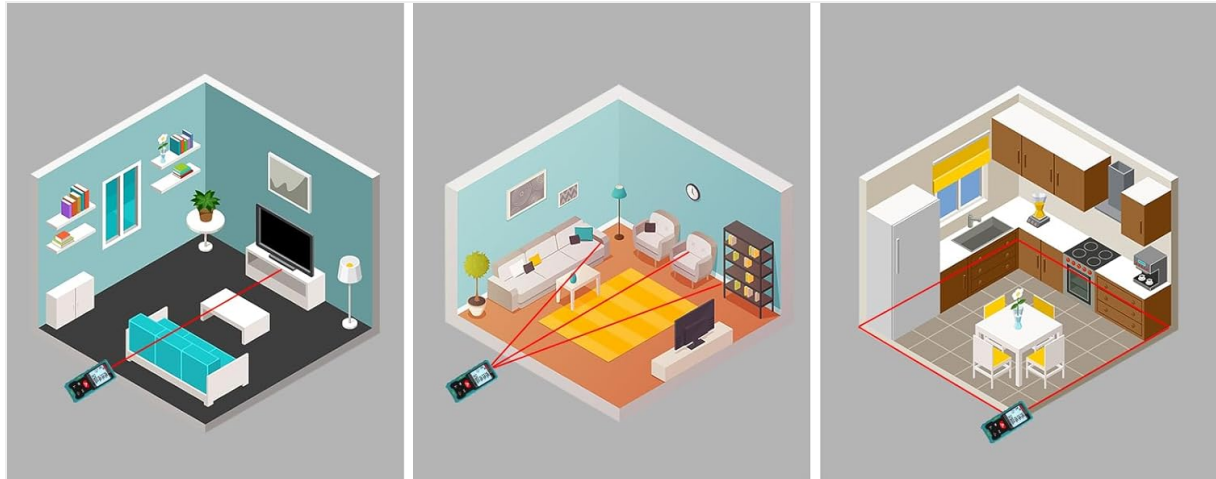
The device can measure from its front or rear edge. Short press the **Reference Point / Unit Switch** button to toggle the reference point.

## 4.5. Measurement Modes

The Kiprim LD100E supports multiple measurement functions. Press the **Area/Volume/Pythagorean Mode /**

**Save** button to cycle through the modes:

- **Distance Measurement:** Measures a single linear distance.
- **Continuous Measurement:** Provides real-time distance updates as the device is moved.
- **Area Measurement:** Calculates the area of a surface (length x width).
- **Volume Measurement:** Calculates the volume of a space (length x width x height).
- **Pythagorean Measurement (Indirect):** Calculates distances indirectly using the Pythagorean theorem (e.g., height of a building). There are two types: Single Pythagorean and Double Pythagorean.
- **Addition and Subtraction:** Allows adding or subtracting measurements.

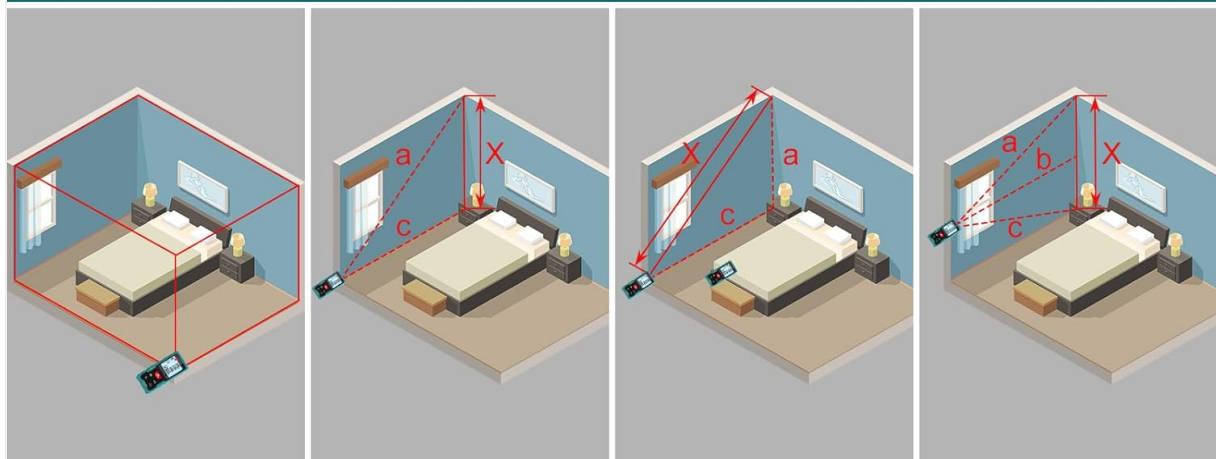


Distance

Continuous

Area

## MULTIPLE MEASUREMENT MODES



Volume

Pythagoras 1

Pythagoras 2

Pythagoras 3

Image 4.3: Visual representation of multiple measurement modes.

### 4.6. Data Storage and Recall

The device can store up to 99 sets of measurement data. To save a measurement, press the **Area/Volume/Pythagorean Mode / Save** button after a measurement is taken. To recall stored data, refer to the on-screen menu options.



Wipe the device with a soft, damp cloth. Do not use abrasive cleaners or solvents. Ensure the laser lens is clean for accurate measurements.

## 5.2. Storage

When not in use, store the device in its protective pouch in a cool, dry place, away from direct sunlight and extreme temperatures. Remove batteries if the device will not be used for an extended period.

## 5.3. Battery Replacement

Replace batteries when the low battery indicator appears on the screen to ensure optimal performance.

## 6. TROUBLESHOOTING

If you encounter issues with your Kiprim LD100E, please refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Device does not turn on	Dead or incorrectly inserted batteries	Check battery polarity or replace with new AAA batteries.
Inaccurate measurements	Dirty laser lens, unstable surface, or unsuitable target surface	Clean the laser lens. Ensure the device is stable. Use a reflector for difficult surfaces or long distances.
Laser not visible	Bright ambient light	Use the device in lower light conditions or use a target plate/reflector.
Error message on screen	Measurement out of range or internal error	Ensure target is within 0.05m-100m range. Turn off and restart the device. If the problem persists, contact support.

## 7. SPECIFICATIONS

Feature	Detail
Model	LD100E
Measurement Range	0.05m - 100m (0.16ft - 328ft)
Measurement Accuracy	±2mm (±1/16 inch)
Measurement Units	m / in / ft / ft+in
Laser Class	Class 2
Laser Type	635nm, <1mW
Data Storage	Up to 99 records
Auto Laser Off	20 seconds
Auto Device Off	150 seconds
Dust & Splash Protection	IP54
Battery Type	2 x AAA (Alkaline)

Feature	Detail
Product Dimensions (L x W x H)	115 x 50 x 25 mm (4.53 x 1.97 x 0.98 inches)
Product Weight	100 grams (including 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)

## 8. WARRANTY AND SUPPORT

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### 8.1. Warranty Information

The Kiprim LD100E Laser Distance Meter comes with a **24-month warranty** from the date of purchase. This warranty covers manufacturing defects and material faults under normal use. It does not cover damage caused by misuse, unauthorized modifications, accidents, or normal wear and tear.

### 8.2. Customer Support

For technical assistance, warranty claims, or any questions regarding your Kiprim LD100E, please contact Kiprim customer support through the retailer where you purchased the product or visit the official Kiprim website for contact information.