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- › [HILTI](#) /
- › [Hilti PD-E Laser Range Meter User Manual](#)

## HILTI PD-E

# Hilti PD-E Laser Range Meter User Manual

Model: PD-E (2062051)

## 1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your Hilti PD-E Laser Range Meter. Please read this manual thoroughly before using the device.

The Hilti PD-E is a professional-grade laser distance meter designed for accurate and rapid measurement of distances, areas, and volumes in various construction and surveying applications.

## 2. SAFETY INFORMATION

### **WARNING: Laser Radiation**

The Hilti PD-E emits Class 2 (Class II) laser radiation. Avoid direct eye exposure to the laser beam. Do not stare into the beam or view directly with optical instruments.

- Do not intentionally direct the laser beam at people or animals.
- Do not operate the device in explosive atmospheres.
- Keep the device out of reach of children.
- Use only as described in this manual.
- Do not attempt to modify or repair the device yourself. Refer to authorized service personnel.

### **Laser Specifications:**

- Laser Class: <1 mW, 635 nm, Class 2, Class II

## 3. PRODUCT OVERVIEW

The Hilti PD-E Laser Range Meter is equipped with features designed for precision and durability.



**Figure 1:** Hilti PD-E Laser Range Meter. This image shows the front of the device, highlighting its display screen, measurement buttons, and power button. The device is red and black.

## Key Features:

- **Optical Viewfinder:** Facilitates easy targeting, especially in bright outdoor conditions.
- **Outdoor Display:** Designed for readability under direct sunlight.
- **Rugged Design:** IP65 dust-tight and water-protected for demanding job site environments.
- **Extended Range:** Measures distances from 1 mm up to 200 meters (656 feet).
- **Tilt Sensor:** Assists in straight measurements and advanced functions.
- **Data Memory:** Stores up to 30 last measurements.



**Figure 2:** Hilti PD-E Laser Range Meter accessories. This image displays the included safety glasses and a soft pouch, essential for protecting the device and user.

## 4. SETUP

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### 4.1 Battery Installation

1. Locate the battery compartment cover on the device.
2. Open the cover.
3. Insert two (2) AAA 1.5V alkaline batteries, ensuring correct polarity (+/-).
4. Close the battery compartment cover securely.

The device uses 2 AAA batteries, which are included, providing power for up to 5000 measurements.

### 4.2 Initial Power On

Press the power button ( ) to turn on the device. The display will illuminate, indicating it is ready for use.

## 5. OPERATING INSTRUCTIONS

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### 5.1 Basic Distance Measurement

1. Turn on the device.
2. Point the laser beam at the target object.
3. Press the measurement button (usually a large central button or labeled "MEAS"). The laser will emit a beam.
4. The measured distance will appear on the display.

## 5.2 Continuous Measurement (Tracking)

For continuous measurement, press and hold the measurement button. The device will continuously update the distance as you move it, displaying the minimum and maximum values.

## 5.3 Area and Volume Measurement

Refer to the on-screen menu or specific function buttons for area and volume calculations. Typically, you will measure two or three sides, and the device will calculate the area or volume automatically.

## 5.4 Indirect Measurement (Pythagoras)

The tilt sensor and advanced functions allow for indirect measurements, such as calculating heights or distances where direct measurement is not possible. Consult the device's on-screen prompts for these functions.

## 5.5 Data Memory

The device stores the last 30 measurements. Use the navigation buttons to scroll through the stored data.

# 6. MAINTENANCE

## 6.1 Cleaning

- Wipe the device with a clean, soft, damp cloth.
- Do not use aggressive cleaning agents or solvents.
- Clean the optical components (laser exit and receiver lens) carefully with a soft cloth, similar to cleaning camera lenses.

## 6.2 Storage

- Store the device in its soft case when not in use.
- Remove batteries if the device will not be used for an extended period to prevent leakage.
- Store in a dry, cool place, away from direct sunlight and extreme temperatures.

# 7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not turn on.	<ul style="list-style-type: none"><li>• Batteries are dead or incorrectly inserted.</li><li>• Battery contacts are dirty.</li></ul>	<ul style="list-style-type: none"><li>• Replace batteries or ensure correct polarity.</li><li>• Clean battery contacts.</li></ul>

Problem	Possible Cause	Solution
Inaccurate measurements.	<ul style="list-style-type: none"> <li>• Laser beam obstructed.</li> <li>• Target surface is highly reflective or transparent.</li> <li>• Device is not stable.</li> </ul>	<ul style="list-style-type: none"> <li>• Ensure clear line of sight.</li> <li>• Use a target plate for difficult surfaces.</li> <li>• Place the device on a stable surface or use a tripod.</li> </ul>
Display error message.	<ul style="list-style-type: none"> <li>• Measurement out of range.</li> <li>• Internal error.</li> </ul>	<ul style="list-style-type: none"> <li>• Ensure target is within the specified measuring range.</li> <li>• Turn the device off and on again. If the error persists, contact Hilti service.</li> </ul>

## 8. SPECIFICATIONS

<b>Model</b>	PD-E (2062051)
<b>Brand</b>	HILTI
<b>Accuracy</b>	±1.0 mm (±0.04 in)
<b>Measuring Range</b>	1 mm to 200 m (656 feet)
<b>Laser Class</b>	<1 mW, 635 nm, Class 2, Class II
<b>IP Protection Class</b>	IP65 (Dust-tight and water protected)
<b>Battery Type</b>	2 x 1.5 V AAA Alkaline (included)
<b>Operation Time</b>	≤ 5000 measurements
<b>Operating Temperature</b>	-10°C to 50°C (14°F to 122°F)
<b>Dimensions (L x W x H)</b>	129 x 60 x 28 mm (5.08" x 2.36" x 1.1")
<b>Data Memory</b>	30 last measurements
<b>Material</b>	Composite
<b>Color</b>	Black, Red
<b>UPC</b>	733353037859, 743153791004, 756655986526

## 9. WARRANTY AND SUPPORT

For detailed warranty information, service, or technical support, please refer to the official Hilti website or contact Hilti customer service directly. Keep your purchase receipt and product serial number (2062051) readily available

for any inquiries.

Hilti provides comprehensive support for its products. Do not attempt to repair the device yourself, as this may void the warranty and compromise safety.