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› PREXISO P80E-8L Laser Distance Meter User Manual

## Prexiso P80E-8L

# PREXISO P80E-8L Laser Distance Meter User Manual

Model: P80E-8L

## 1. INTRODUCTION

Thank you for choosing the PREXISO P80E-8L Laser Distance Meter. This device is designed for precise and efficient distance measurements, offering multiple functions for various applications in home, construction, and industrial settings. This manual provides essential information for safe and effective operation of your device.

## 2. SAFETY INFORMATION

**WARNING:** This product is a Class II laser product with an output of  $< 1\text{mW}$ . Avoid direct eye exposure to the laser beam. Do not stare into the beam. Do not aim the laser at people or animals. Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

- Read all instructions carefully before operating the device.
- Do not attempt to modify or disassemble the device.
- Keep the device out of reach of children.
- Avoid using the device in direct sunlight or extreme temperatures, as this may affect accuracy.
- The device is designed for indoor use. Outdoor use is not recommended due to potential accuracy issues in bright conditions.

## 3. PRODUCT OVERVIEW

The PREXISO P80E-8L is a compact, durable, and user-friendly laser distance meter. It features a large backlit LCD for clear readings and a built-in bubble level for accurate alignment.

### 3.1 Key Features

- Measuring Range: 0.05-80 m (0.16-265 ft)
- Accuracy:  $\pm 1/8$  inch
- Multiple Measurement Modes: Single, Continuous (Min/Max), Area, Volume, Pythagoras (2-point, 3-point)
- Measurement Reference Points: Front, Middle, Rear
- Units: Meters (M), Inches (In), Feet (Ft)
- Rechargeable Li-ion Battery with USB-C Charging
- Large Backlit LCD 4-Line Display

- Built-in Bubble Level
- Memory: Up to 30 records
- Durable Design: Shockproof, Dustproof, Waterproof (IP54 rated)
- Mute Function

### 3.2 Device Layout

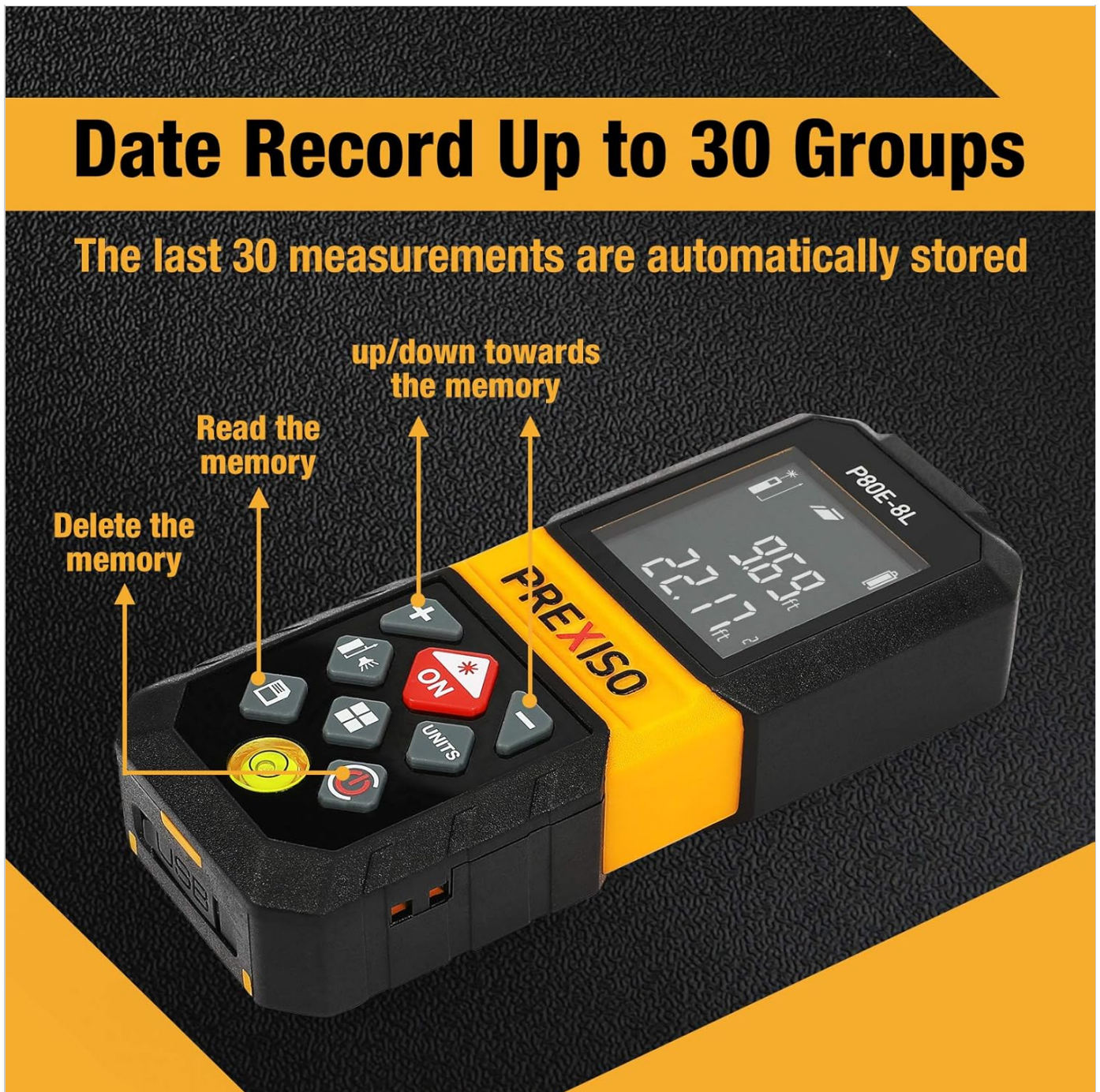


Figure 3.1: Front view of the PREXISO P80E-8L with labeled buttons and display.

- **Display Screen:** Shows measurements, modes, and battery status.
- **ON/Measure Button:** Powers on the device and initiates measurements.
- **OFF/Clear Button:** Powers off the device and clears current measurements.
- **Units Button:** Toggles between measurement units (M/In/Ft).
- **Function Button:** Cycles through measurement modes (Area, Volume, Pythagoras, etc.).
- **Reference Point Button:** Changes the measurement starting point (front, middle, rear).
- **Add/Subtract Buttons:** Performs addition or subtraction of measurements.
- **Memory/Mute Button:** Accesses stored measurements or mutes the device.

- **Built-in Bubble Level:** Aids in horizontal and vertical alignment.
- **USB-C Charging Port:** Located on the side, protected by a rubber cover.

## 4. SETUP

### 4.1 Charging the Battery

The PREXISO P80E-8L is equipped with a built-in rechargeable Li-ion battery. Before first use, fully charge the device.

1. Locate the USB-C charging port on the side of the device, protected by a rubber cover.
2. Open the rubber cover.
3. Connect the provided USB-C cable to the device and to a compatible USB power adapter (not included).
4. The battery indicator on the display will show charging status. A full charge typically takes 2-3 hours and provides 3-5 hours of continuous operation.
5. Once fully charged, disconnect the cable and close the rubber cover to maintain the device's waterproof and dustproof rating.



Figure 4.1: USB-C charging port and battery information.

### 4.2 Power On/Off

- **To Power On:** Press the **ON/Measure** button once. The laser will activate.
- **To Power Off:** Press and hold the **OFF/Clear** button for a few seconds. The device will also automatically shut down after 120 seconds of inactivity to conserve battery.

### 4.3 Changing Measurement Reference Points

The device can measure from three different reference points: the front, middle, or rear of the device. This is crucial for accurate measurements depending on your placement of the device.

- Press the **Reference Point** button to cycle through the available options.
- The display will show an icon indicating the currently selected reference point.



Figure 4.2: Measurement reference points and unit setting.

## 4.4 Changing Measurement Units

The device supports measurements in Meters (M), Inches (In), and Feet (Ft).

- Press the **Units** button to cycle through the available measurement units.
- The selected unit will be displayed on the screen.

## 5. OPERATING MODES

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The PREXISO P80E-8L offers six different measurement modes to suit various needs.

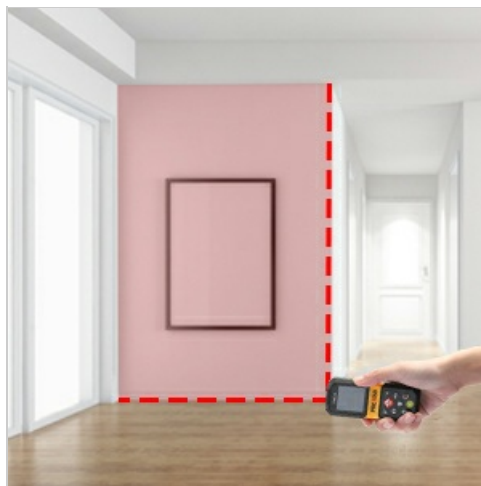


Figure 5.1: Overview of the 6 measurement functions.

### 5.1 Single Distance Measurement

1. Point the laser at the target.
2. Press the **ON/Measure** button once. The distance will be displayed instantly.

### 5.2 Continuous Measurement (Min/Max)

This mode allows you to track minimum and maximum distances as you move the device.

1. Press the **Function** button until the continuous measurement icon appears.
2. Press the **ON/Measure** button to start.
3. Move the device slowly. The display will show the current, minimum, and maximum distances.
4. Press the **ON/Measure** button again to stop.

### 5.3 Area Measurement

1. Press the **Function** button until the area measurement icon appears.
2. Measure the first side (e.g., length) by pressing **ON/Measure**.
3. Measure the second side (e.g., width) by pressing **ON/Measure**.

- The device will automatically calculate and display the area.

## 5.4 Volume Measurement

- Press the **Function** button until the volume measurement icon appears.
- Measure the length, width, and height sequentially by pressing **ON/Measure** after each measurement.
- The device will calculate and display the volume.

## 5.5 Pythagoras Measurement (2-Point & 3-Point)

This mode allows indirect measurement of heights or distances using the Pythagorean theorem.

- Press the **Function** button until the desired Pythagoras icon appears (2-point or 3-point).
- Follow the on-screen prompts to take the required measurements (e.g., hypotenuse, base).
- The device will calculate and display the unknown height or distance.

## 5.6 Addition and Subtraction of Measurements

You can add or subtract measurements for cumulative calculations.

- Take a measurement.
- Press the **+** button to add the next measurement or the **-** button to subtract.
- Take the next measurement. The result will be displayed.

## 5.7 Memory Function

The device can store up to 30 measurement records.

- Press the **Memory** button to view stored records.
- Use the **Up/Down** arrow buttons to navigate through the records.
- To manually delete data, refer to the detailed instruction manual.



Figure 5.2: Memory function for storing up to 30 records.

## 5.8 Mute Function

To use the device in quiet environments, you can mute the beep sound.

- Press the **Mute** button (often combined with the Memory button) to toggle the sound on/off.

# 6. MAINTENANCE

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## 6.1 Cleaning

- Wipe the device with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- Clean the laser lens carefully with a soft, lint-free cloth, similar to cleaning camera lenses.

## 6.2 Storage

- Store the device in a cool, dry place away from direct sunlight.
- If storing for extended periods, ensure the battery is partially charged (around 50%) and recharge every few months to maintain battery health.

### 6.3 Durability

The PREXISO P80E-8L is designed to be shockproof, dustproof, and waterproof with an IP54 rating, making it suitable for various working conditions. However, avoid intentional drops or submersion in water.



Figure 6.1: Device durability features.

## 7. TROUBLESHOOTING

- **Device not powering on:** Ensure the battery is charged. Connect to a USB power source and try again.
- **Inaccurate measurements:** Check the selected reference point. Ensure the laser is aimed at a flat, non-reflective surface. Avoid measuring in direct sunlight.
- **Laser not visible:** The laser may be difficult to see in bright light conditions. This is normal for Class II lasers.
- **Device unresponsive:** Try powering off and on again. If the issue persists, contact customer support.

## 8. SPECIFICATIONS

Feature	Specification
Model Number	P80E-8L
Measuring Range	0.05-80 m (0.16-265 ft)
Accuracy	±1/8 inch
Laser Class	Class II, < 1mW
Battery Type	Lithium-Ion (Rechargeable)
Battery Life	3-5 hours (continuous operation)
Auto-Shutdown	120 seconds (laser), 180 seconds (device)
Dimensions (L x W x H)	4.7" x 1.9" x 1.0" (11.9 cm x 4.8 cm x 2.5 cm)
Weight	0.19 Kilograms
Material	ABS, Steel
IP Rating	IP54 (Dustproof, Waterproof)

## 9. WARRANTY AND SUPPORT

The PREXISO P80E-8L Laser Distance Meter comes with a 2-year limited warranty. For warranty claims, technical support, or any inquiries, please refer to the contact information provided in your product packaging or visit the official Prexiso website.

## 10. OFFICIAL PRODUCT VIDEOS

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### PREXISO 265FT/80m Rechargeable Laser Distance Measure

Your browser does not support the video tag.

This video demonstrates the various measurement functions and features of the PREXISO P80E-8L Laser Distance Meter, including continuous measurement, area, volume, and Pythagoras modes.

### PREXISO 265Ft Rechargeable Laser Distance Meter

Your browser does not support the video tag.

An overview video highlighting the key capabilities and ease of use of the PREXISO 265Ft Rechargeable Laser Distance Meter.

