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ETURBEV LDM-35

LDM-35 Laser Rangefinder User Manual

Model: LDM-35 | Brand: ETURBEV

1. Introduction

Thank you for choosing the ETURBEV LDM-35 Laser Rangefinder. This high-precision infrared laser electronic ruler is designed for accurate and efficient distance, area, and volume measurements in various indoor and outdoor environments. Please read this manual thoroughly before using the device to ensure safe and optimal operation.



Figure 1: Front view of the LDM-35 Laser Rangefinder, showing the display screen and control buttons.

2. Safety Instructions

- Do not stare directly into the laser beam.
- Avoid pointing the laser beam at people or animals.
- Do not disassemble or modify the device.
- Keep the device away from water and extreme temperatures.
- Use only specified batteries.
- Store the device in a safe place, out of reach of children.

3. Product Overview

3.1. Components

- Laser Emitter/Receiver Lens
- LCD Display Screen
- Measurement Button (MEAS)
- Plus (+) Button
- Minus (-) Button
- Unit Conversion Button (Unit)
- Clear/Power Off Button (CLR/Power)
- Max/Min/Continuous Measurement Button (MAX/MIN)
- Area/Volume/Pythagorean Measurement Button
- Reference Point Button
- Battery Compartment

3.2. Display Icons

- **Battery Indicator:** Shows remaining battery life.
- **Signal Strength:** Indicates laser signal quality.
- **Measurement Mode:** Icons for single, continuous, area, volume, Pythagorean.
- **Reference Point:** Indicates front or rear edge measurement.
- **Unit:** Displays current measurement unit (m, ft, in).

4. Setup

4.1. Battery Installation

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

4.2. Powering On/Off

- To power on: Press the **CLR/Power** button.
- To power off: Press and hold the **CLR/Power** button for 3 seconds. The device will also automatically power off after 150 seconds of inactivity.

5. Operating Instructions

5.1. Changing Measurement Units

Press the **Unit** button repeatedly to cycle through available units: meters (m), feet (ft), and inches (in).

5.2. Setting Reference Point

The device can measure from its front edge or rear edge. Press the **Reference Point** button to toggle between these two options. The display will show an icon indicating the current reference point.

5.3. Single Distance Measurement

1. Point the laser at the target.
2. Press the **MEAS** button once. The laser will activate.

3. Press the **MEAS** button again to take the measurement. The result will be displayed.

5.4. Continuous Measurement (Max/Min Tracking)

Press and hold the **MAX/MIN** button. The device will continuously measure, displaying the current, maximum, and minimum distances. Press **MEAS** or **CLR** to exit.

5.5. Area Measurement

1. Press the **Area/Volume/Pythagorean** button once. The area icon will appear.
2. Measure the first side (e.g., length) by pressing**MEAS**.
3. Measure the second side (e.g., width) by pressing**MEAS**.
4. The device will automatically calculate and display the area.

5.6. Volume Measurement

1. Press the **Area/Volume/Pythagorean** button twice. The volume icon will appear.
2. Measure length, width, and height sequentially by pressing**MEAS** after each measurement.
3. The device will automatically calculate and display the volume.

5.7. Pythagorean Measurement

This mode allows indirect measurement of height or distance using the Pythagorean theorem.

1. Press the **Area/Volume/Pythagorean** button three or four times to select the desired Pythagorean mode (e.g., single Pythagorean, double Pythagorean).
2. Follow the on-screen prompts to measure the required sides (hypotenuse, base).
3. The device will calculate and display the unknown side.

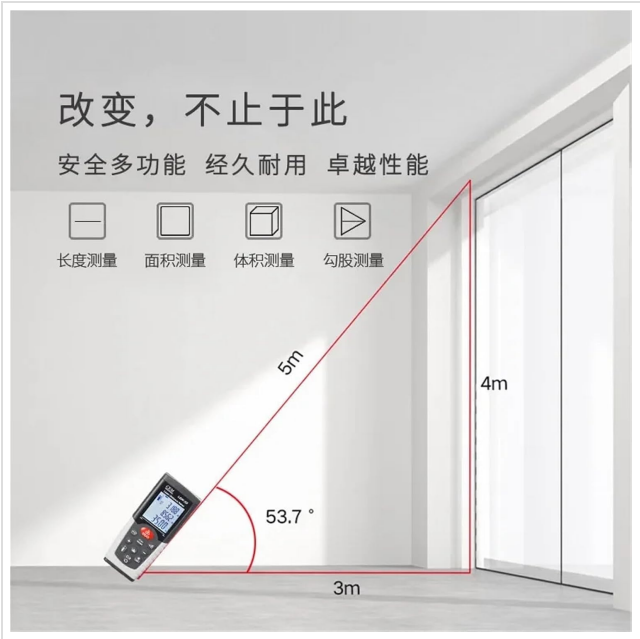


Figure 2: Illustration of various measurement modes including length, area, volume, and Pythagorean calculations.



Figure 3: Key performance characteristics of the LDM-35, highlighting its strong light measurement capability, ±1.5mm precision, 1mm measurement perception, and 0.5-second fast measurement.

6. Maintenance

- **Cleaning:** Use a soft, damp cloth to clean the device. Do not use abrasive cleaners or solvents. Pay special attention to keeping the laser lens clean.
- **Storage:** When not in use for extended periods, remove the batteries to prevent leakage. Store the device in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Battery Replacement:** Replace batteries when the low battery indicator appears on the display.

7. Troubleshooting

Problem	Possible Cause	Solution
Device does not turn on.	Low or dead batteries; incorrect battery polarity.	Replace batteries; ensure correct polarity.
Inaccurate measurements.	Laser lens dirty; unstable measurement surface; strong light interference; incorrect reference point.	Clean laser lens; ensure stable surface; measure in shaded areas; check reference point setting.
"Error" message on display.	Measurement out of range; poor reflection surface; device malfunction.	Ensure target is within range; use a reflective target if needed; contact support if persistent.

8. Specifications

Feature	Detail
Model	LDM-35
Measurement Range	Up to 35 meters (115 feet)

Feature	Detail
Measurement Accuracy	±1.5 mm (±0.06 inches)
Measurement Speed	Approx. 0.5 seconds
Laser Class	Class 2, < 1mW
Units of Measurement	m / ft / in
Functions	Single measurement, Continuous measurement, Area, Volume, Pythagorean (2-point, 3-point)
Automatic Laser Off	20 seconds
Automatic Instrument Off	150 seconds
Battery Type	2 x AAA (Alkaline recommended)
Operating Temperature	0°C to 40°C (32°F to 104°F)
Storage Temperature	-20°C to 60°C (-4°F to 140°F)
Dimensions	1.18 x 0.79 x 0.39 inches (approximate)
Weight	1.76 ounces (50 grams)



Figure 4: The LDM-35 Laser Rangefinder shown in an indoor environment, demonstrating its practical application for room measurements.

9. Warranty and Support

For warranty information and technical support, please refer to the contact details provided with your purchase or

visit the official ETURBEV website. Keep your purchase receipt as proof of purchase.

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