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Real Instruments LDM-60M

Real Instruments Laser Distance Meter

Model: LDM-60M

User Instruction Manual

1. Introduction

Thank you for choosing the Real Instruments LDM-60M Laser Distance Meter. This compact and portable device is designed for precise and efficient distance measurement, offering various functions including area, volume, and Pythagorean calculations. It is an ideal tool for professionals in construction, decoration, industrial applications, and home improvement projects. Please read this manual carefully before using the device to ensure safe and optimal operation.



Figure 1: Real Instruments LDM-60M Laser Distance Meter with included accessories (batteries, pouch, strap, manual).

2. Safety Information

WARNING: Laser Radiation. Avoid direct eye exposure.

- This device emits a Class 2 laser. Do not stare into the laser beam or direct it at other people.
- Do not attempt to modify or disassemble the device. Unauthorized modifications can lead to hazardous laser radiation exposure.
- Keep the device out of reach of children.
- Use only the specified battery type (2 x 1.5V AAA batteries). Ensure correct polarity when inserting batteries.

- Do not mix old and new batteries, or different types of batteries.
- Remove batteries if the device will not be used for an extended period to prevent leakage.
- Avoid using the device in explosive environments or near flammable liquids and gases.
- Protect the device from extreme temperatures, strong vibrations, and direct sunlight.

3. Package Contents

Please check the package for the following items:

- 1 x Real Instruments LDM-60M Laser Distance Meter
- 2 x 1.5V AAA Batteries
- 1 x Portable Neat Nylon Pouch
- 1 x Hand Strap
- 1 x User Manual (this document)



Figure 2: All items included in the product packaging.

4. Product Overview

Familiarize yourself with the components and display of your LDM-60M device.

4.1 Device Components



Figure 3: Key components and buttons of the LDM-60M Laser Distance Meter.

1. **Laser Indication:** Indicates when the laser is active.
2. **LCD Display:** Shows measurement data, mode, battery status, and other indicators.
3. **Bubble Level:** Helps ensure the device is level for accurate measurements.
4. **MEAS Button:** Turns on the laser, initiates single measurement, or starts continuous measurement.

5. **Pythagorean Method** / **Auto Level** / **Auto Height Button:**Selects indirect measurement modes.
6. **Historical Data Button:** Accesses stored measurement records.
7. **Area/Volume Button:** Selects area or volume measurement modes.
8. **Addition/Go Up Button:** Adds measurements or navigates up in menus.
9. **Subtraction/Go Down Button:** Subtracts measurements or navigates down in menus.
10. **Reference Point Button:** Changes the measurement reference point (front or rear of the device).
11. **CLR (Clear)** / **Turn Off Button:** Clears the current measurement or turns off the device (long press).
12. **Unit Button:** Changes measurement units (m/in/ft/ft+in).

4.2 LCD Display Indicators

The LCD display provides comprehensive information:

- **Battery Indicator:** Shows remaining battery life.
- **Signal Strength:** Indicates laser signal quality.
- **Measurement Mode Icons:** Displays the active measurement mode (e.g., single, area, volume, Pythagorean).
- **Reference Point Indicator:** Shows whether the measurement is taken from the front or rear edge of the device.
- **Measurement Values:** Displays current and previous measurement results.
- **Unit Indicator:** Shows the selected unit of measurement (m, in, ft, ft+in).

5. Setup

5.1 Battery Installation

The LDM-60M requires two 1.5V AAA batteries for operation. Follow these steps to install them:

1. Locate the battery compartment cover on the rear of the device.
2. Slide the cover downwards to open the compartment.
3. Insert two AAA batteries, ensuring the correct polarity (+ and -) as indicated inside the compartment.
4. Close the battery compartment cover by sliding it upwards until it clicks into place.

Note: The device will automatically shut down after 45 seconds of inactivity to conserve battery life.

6. Operating Instructions

6.1 Power On/Off

- **Power On:** Press the **MEAS** button briefly. The laser will activate.
- **Power Off:** Long press the **CLR** button.

6.2 Changing Measurement Units

The LDM-60M supports meters (m), inches (in), feet (ft), and feet+inches (ft+in).

- Press the **Unit** button briefly to cycle through the available units. The selected unit will be displayed on the LCD.



Figure 4: Short press the 'Unit' button to change between meters, inches, feet, and feet+inches.

6.3 Changing Reference Point

Measurements can be taken from the front or rear edge of the device.

- Press the **Reference Point** button to toggle between front and rear reference. An icon on the display will indicate the active reference point.

6.4 Single Distance Measurement

1. Turn on the device by pressing **MEAS**.
2. Aim the laser at the target point.
3. Press **MEAS** again briefly. The measured distance will be displayed instantly.

6.5 Continuous Measurement (Min/Max)

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

1. From standby, long press the **MEAS** button. The device will start continuous measurement.
2. Move the device slowly towards or away from the target. The display will show real-time distance, as well as the minimum and maximum recorded distances.
3. Press **MEAS** again to stop continuous measurement.

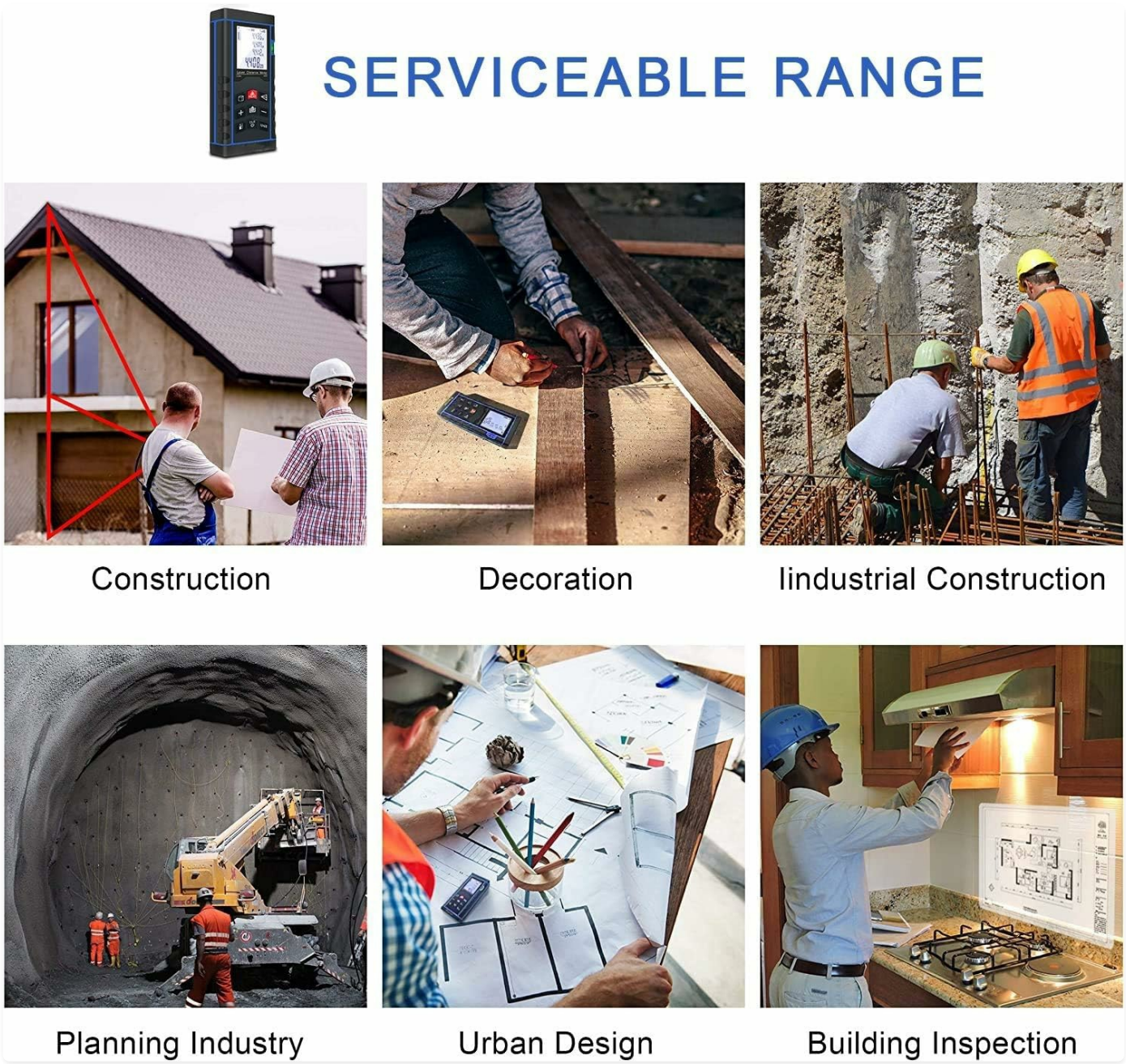


Figure 5: Continuous measurement displays real-time, minimum, and maximum distances.

6.6 Area Measurement

1. Press the **Area/Volume** button once. An area icon will appear on the display.
2. Press **MEAS** to measure the first side (e.g., length).
3. Press **MEAS** again to measure the second side (e.g., width).
4. The device will automatically calculate and display the area.

6.7 Volume Measurement

1. Press the **Area/Volume** button twice. A volume icon will appear.
2. Press **MEAS** to measure length.

3. Press **MEAS** to measure width.
4. Press **MEAS** to measure height.
5. The device will automatically calculate and display the volume.

6.8 Pythagorean Measurement (Indirect)

This mode allows you to calculate inaccessible heights or distances using the Pythagorean theorem.

1. Press the **Pythagorean Method** button to select the desired indirect measurement mode (e.g., two-point or three-point Pythagorean). The display will show a diagram indicating the required measurements.
2. Follow the on-screen prompts to take the necessary measurements (e.g., hypotenuse, base).
3. The device will calculate and display the unknown side.

6.9 Data Storage and Recall

The LDM-60M can store up to 20 groups of measurement data.

- After a measurement is taken, it is automatically saved.
- Press the **Historical Data** button to view stored records. Use the**Addition/Go Up** and **Subtraction/Go Down** buttons to navigate through the records.
- To manually delete data, press the **CLR** button while viewing historical data.



Figure 6: The device stores up to 20 sets of measurement data for convenient recall.

7. Maintenance and Care

- **Cleaning:** Use a soft, damp cloth to clean the device. Do not use abrasive cleaners or solvents. Clean the laser lens carefully with a soft cloth, similar to cleaning camera lenses.
- **Storage:** Store the device in its portable pouch in a cool, dry place when not in use. Avoid direct sunlight and extreme temperatures.
- **Batteries:** Remove batteries if the device is not used for extended periods to prevent corrosion from battery leakage.

- **Water and Dust Resistance:** The device has an IP54 rating, meaning it is protected against dust ingress and splashing water from any direction. However, it is not fully waterproof; do not immerse it in water.

8. Troubleshooting

If you encounter issues with your LDM-60M, please refer to the following table:

Problem	Possible Cause	Solution
Device does not turn on.	Low or dead batteries; Incorrect battery installation.	Replace batteries with new 1.5V AAA batteries. Ensure correct polarity.
Measurement error or inaccurate readings.	Laser beam obstructed; Target surface too reflective/absorbent; Device not stable; Environmental interference (e.g., strong light).	Ensure clear line of sight. Use a target plate for difficult surfaces. Hold device steady or use a tripod. Avoid strong light sources.
Display shows 'Error'.	Measurement out of range; Internal error.	Ensure target is within the 60m range. Turn off and restart the device. If error persists, contact customer support.
Buttons are unresponsive.	Device frozen; Low battery.	Remove and reinsert batteries. Replace batteries if low.

9. Technical Specifications

Feature	Specification
Brand	Real Instruments
Model	LDM-60M
Measuring Range	60 Meter
Colour	Black & Blue
Material	Plastic
Item Weight	200 Grams
Product Dimensions	10L x 4W x 3H Centimeters
Batteries Included	Yes (2 x 1.5V AAA Alkaline)
Water Resistance Level	Waterproof (IP54)
International Protection Rating	IP54
Data Memory	Up to 20 groups
Auto Shut-off	45 seconds of inactivity

Feature	Specification
Country of Origin	India

10. Warranty and Customer Support

Real Instruments is committed to providing high-quality digital measuring instruments. This product comes with a standard manufacturer's warranty against defects in materials and workmanship. For specific warranty terms and duration, please refer to the warranty card included in your product packaging or contact Real Instruments customer support.

For any technical assistance, troubleshooting, or warranty claims, please contact Real Instruments customer support through the details provided on your purchase invoice or the official Real Instruments website. You may also consider purchasing an extended warranty for additional coverage.

Note: Damage caused by misuse, unauthorized modification, or failure to follow instructions in this manual is not covered under warranty.

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