

LM50A/LM70A/LM100A/LM120A Laser Distance Meter User Manual

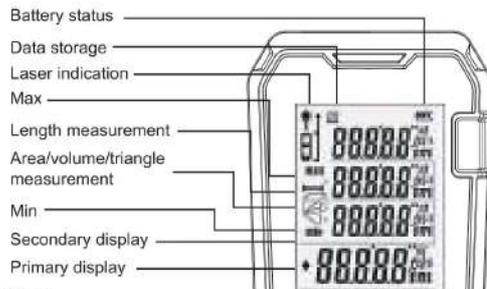
Safety Information

Before using the meter for the first time, please read the safety information and operating instructions carefully.

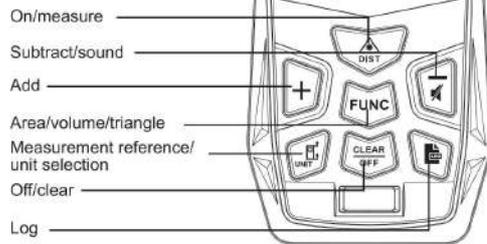
- Use the meter only as specified in this manual. Otherwise, it may cause damage to the meter, affect measurement accuracy and result in personal injury.
- Do not disassemble or repair the meter without authorization. Do not reft or change the performance of the laser transmitter illegally. Please keep the meter properly, do not place it where children can reach it, and avoid use by irrelevant personnel.
- Do not irradiate the laser at eyes and other parts of the body, and on the surface of highly reflective objects.
- The electromagnetic radiation of the meter may cause interference to other equipment. Please do not use the meter near airplanes, medical equipment or in flammable and explosive environments.
- The replaced batteries and discarded meters cannot be disposed of together with domestic garbage. Please dispose of them in accordance with relevant national or local laws and regulations.
- If the meter has any quality problems, or if users have any questions about the use of the meter, please contact the local dealer or manufacturer in time.

Product Introduction

Display



Keypad



Batteries



1. Open the battery door on the back of the meter, install the battery according to the polarity instructions, and close the battery door.
2. The meter can only use 1.5V AAA alkaline batteries.
3. When the meter is not used for a long time, please take out the battery to prevent it from corroding the meter's main body.

Power On and Function Settings

1. Power On/Off

In the shutdown state, press \triangle , the meter and the laser will be started at the same time.

In the power-on state, press and hold \square for 3 seconds to turn off the meter. If no operation is performed within 150 seconds, the meter will automatically shut down.

2. Unit Settings

Long press \square to enter the unit setting state and the current unit can be reset. The default unit of the meter is 0.000m. There are 6 optional units.

Measurement units:

	Length	Area	Volume
1	0.000 m	0.000 m ²	0.000 m ³
2	0.00 m	0.00 m ²	0.00 m ³
3	0.0 in	0.00 ft ²	0.00 ft ³
4	0 1/16 in	0.00 ft ²	0.00 ft ³
5	0'00" 1/16	0.00 ft ²	0.00 ft ³
6	0.00 ft	0.00 ft ²	0.00 ft ³

3. Measurement Reference Settings

Short press \square to measure from front or end. The default setting is end measurement.

4. Backlight

The backlight is automatically turned on and off. It will turn on for 15 seconds when any button is pressed. The backlight will automatically turn off if there is no operation after 15 seconds to save power.

5. Sound

Long press \square to turn on or off the sound of the beeper.

6. Self-Calibration

Self-calibration function can ensure the measurement accuracy. Calibration method: In the shutdown state, press and hold \square , and then short press \triangle to turn on the meter. When the screen shows 'CAL' with a flashing number at the bottom, the meter enters the self-calibration mode. At this time, users can press \square to calibrate values according to the error of the meter.

Calibration range: -9~9mm

Examples: The actual distance is 3.780m.

If the measured value is 3.778m, which is 2mm smaller than the actual value, press \square to increase the calibration value by 2mm.

If the measured value is 3.783m, which is 3mm larger than the actual value, press \square to lower the calibration value by 3mm.

After adjustment, press \triangle to save the calibration results.

Measurement Modes

1. Single Measurement

While the meter is on, press \triangle to transmit the laser. Press \triangle again to make the distance measurement. The measurement results will show on the primary display.

2. Continuous Measurement

While the meter is on, long press \triangle to enter the continuous measurement state. The maximum and minimum values during the measurement will show on the secondary display. The measurement results will show on the primary display. Short press \triangle or \square to exit the continuous measurement.

3. Area Measurement

Press **FUNC** 1x. The \square symbol will appear on the display and one side of the rectangle will flash.

Press \triangle to make the first measurement (length).

Press \triangle again to make the second measurement (width).

The meter will automatically calculate the area, and the result will show on the primary display. The length and width will show on the secondary display. During the measurement process, press \square to clear the measurement result and re-measure.

Press \square to exit the area measurement and enter the length measurement mode.

4. Volume Measurement

Press **FUNC** 2x. The \square symbol will appear on the display.

Press \triangle to make the first measurement (length).

Press \triangle again to make the second measurement (width).

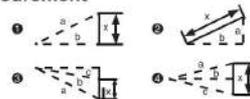
Press \triangle again to make the third measurement (height).

The meter will automatically calculate the volume, and the result will show on the primary display. The length, width and height will show on the secondary display.

During the measurement process, press \square to clear the measurement result and re-measure.

Press \square to exit the volume measurement and enter the length measurement mode.

5. Indirect Measurement



The meter has four modes that use the Pythagorean theorem to measure the distance of one side of a triangle, which is convenient for users to perform indirect measurement in a complex environment.