



LL 600 Laser Rangefinder

Introduction

The laser rangefinder is smaller and lighter. It features high accuracy, an exquisite design, and a wide range of functions. The carbide housing fits comfortably in the hand and can be used even in harsh environmental conditions. It is widely used in outdoor activities, for decorating, in engineering projects, and more.

Accessories

User Manual.....1 piece
USB-C cable.....1 piece
Wrist strap.....1 piece

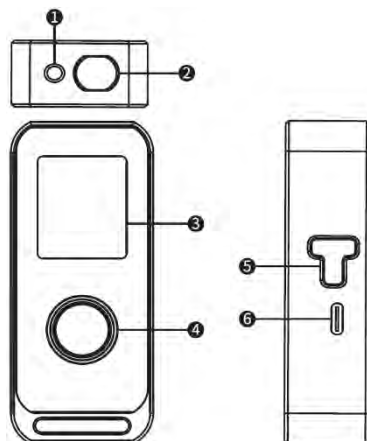
Safety Instructions

Please read the safety instructions and the user manual carefully before use.

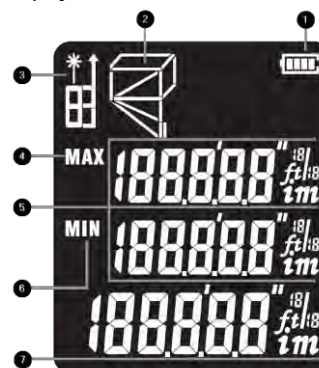
- Please read the user manual and the safety instructions in this manual before use. Improper handling without following this manual may result in damage to the device, inaccurate measurement results, or injury to the user or third parties.
- The device must not be disassembled or repaired in any way. It is prohibited to make illegal modifications or power changes to the laser emitter. Please keep the device out of the reach of children and prevent unauthorized persons from using it.
- It is strictly prohibited to aim the laser at the eyes or other body parts. It is not permitted to aim the laser at the surface of highly reflective objects.
- Due to electromagnetic interference from other devices and equipment, the measuring device must not be used in aircraft or near medical devices and must not be used in flammable or explosive environments.
- Discarded measuring devices must not be disposed of as household waste but must be handled in accordance with applicable laws and regulations.
- If you encounter quality issues or have questions about the measuring device, please contact your local dealer or the manufacturer in a timely manner. We are happy to assist you with solutions.

Structure

No.	Description
1	Laser emitter lens
2	Laser receiver lens
3	LCD
4	Power/Measurement button
5	Mode switch
6	Type-C charging port



Display



No.	Description
1	Battery status
2	Measurement mode
3	Laser on / Reference point
4	Maximum value
5	Auxiliary display field
6	Minimum value
7	Main display area

Technical Specifications

Model	LM60Mi
Range	0.05 to 60 m
Accuracy	±(2.0 mm + 5×10 ⁻³ D)
Continuous measurement	√
Area and volume measurement	√
Perimeter measurement	√
Pythagorean measurement	√
MAX/MIN	√
Unit selector	m, in, ft
Laser Class	CLASS II
Laser type	630–670 nm, < 1 mW
Automatic laser shutdown	20 s (single measurement)
Automatic shutdown	150 s
Measurement times at full charge	8,000 times
Storage temperature	-20 °F – 60 °F
Operating temperature	0 °C ~40 °C
Storage humidity	20%–80% RH
Power supply	3.7 V, 370 mAh Li-ion battery
Product dimensions	86.5 × 36.5 × 19.5 mm
Net product weight	75 g

Operation

Turning the device on/off

When the device is off, press “” (Turn on laser); the device and the laser will start simultaneously, and the device will switch to measurement mode. When the device is on, press “” (Turn off laser) for 3 seconds to turn off the device, or it will automatically turn off after 150 seconds of inactivity.

Unit Setting

When the laser is off, press and hold “i” to change the unit of measurement. The default unit is 0.000 m. There are 3 units to choose from.

Units of measurement:

	Length	Area	Volume
1	0.000 m	0.000 m ²	0.000 m ³
2	0.0 in	0.00 ft ²	0.00 ft ³
3	0.00 ft	0.00 ft ²	0.00 ft ³

Changing the Reference Point

When the laser is on, press and hold “” to change the reference point. The default reference point is the terminal’s baseline.

Battery

Built-in 3.7 V lithium battery with 370 mAh capacity. The battery icon flashes when the battery is low.

Auto-calibration and Sound On/Off

Self-calibration function

The self-calibration function is primarily used to correct data. If a deviation occurs when the user measures the distance, this function can be used to correct the distance.

The correction range is between -0.009 and 0.009 m. For example, if the data is 2 mm too large, reduce the value by 0.002 m; if the data is 2 mm too small, increase the value by 0.002 m.

Operation:

1. Access self-calibration: With the device turned off, hold down the “” button and simultaneously press the “” button to start the device. “CAL” appears on the screen.
2. Change the calibration value: Press the “” button to increase the calibration value by 1. When the calibration value reaches 0.009 m, increase the calibration value by 1 again to jump to -0.009 m.
3. Save calibration value: Press “” to save the current calibration value and access the sound settings.

• Sound on/off

The device is equipped with an audible signal function by default. Users can turn the audible signal function on or off as needed.

1. Access the sound settings: See “Self-calibration” to access the self-calibration menu. Skip the step to change the calibration value; save the calibration value directly to access the sound settings, and “Sound” will appear on the screen.

2. Turn sound on/off: Press “” to turn the sound on or off. “On” means to turn the sound on; “Off” means to turn the sound off.

3. Save settings: Press “” to save the settings and return to measurement mode.

Single measurement

In measurement mode, press “” so that the device emits a laser beam and locks onto the measurement point. Press  again to perform a single distance measurement. The measurement result is displayed in the main display area.

Continuous measurement

In measurement mode, press and hold “” until “max/min” flashes on the screen, then release the button to enter continuous measurement mode. If you do not release the button within 3 minutes, the device will turn off and the maximum and minimum values measured during the continuous measurement process will be displayed in the auxiliary display area.

The current reading is displayed in the main display area. Briefly press “” or “” to continuous measurement mode.

Area Measurement

Press “” (Area Measurement); “” (Area Measurement) will appear on the screen. One of the sides of the rectangle will flash on the display. Follow these instructions for area measurement:

Press “” once to measure the length.

Press “” again to measure the width
The device automatically calculates the area and displays the result in the main display area. The measurement results for the length and width of the rectangle are shown in the auxiliary display area.

Circumference Measurement

Press “” twice; “” will appear on the screen. One side of the parallelogram will flash on the display. Please follow these instructions for measuring the perimeter:

Press “” once to measure the length.

Press “” again for the width.
The device automatically calculates the perimeter and displays the result in the main display area. The measurement results for the length and width of the parallelogram are displayed in the auxiliary display area.

Volume Measurement

Press “” three times to enter volume measurement mode. “” appears at the top of the screen and the long sides will flash. Please follow these instructions for volume measurement:

Press “” once to measure the length.



Press “” again to measure the height.

Finally, press “” again to measure the width

The device automatically calculates the volume and displays the result in the main display area. The measurement results for the height and width of the cube are displayed in the secondary display area.

Measuring the metope area

Press “” four times until “” appears on the display. Follow the instructions below to measure the wall surface:

Press “” once to measure the height of the wall. Press “” again to measure the width 1 of wall 1. The device automatically calculates the wall area: $\text{Area} = \text{Height} \times \text{Width 1}$

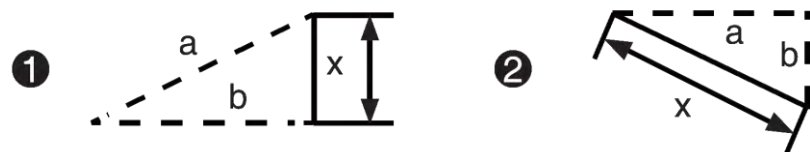
Press “” to start the measurement.

Press “” again to measure the width 2 of wall 2. The device automatically calculates the total area of the wall: $\text{Total area} = \text{Height} \times (\text{Width 1} + \text{Width 2})$

Similarly, press “” to measure the width (n) of wall (n). $\text{Total area} = \text{Height} \times (\text{Width 1} + \text{Width 2} + \dots + \text{Width n})$



Pythagoras



There are two Pythagoras modes that are useful for indirect measurements in certain complex environments.

① Calculate the second leg by measuring the hypotenuse and another leg

Press “” briefly five times to enter Pythagoras mode:

Press “”, measure the length of the hypotenuse (a) Press “”, measure the length of one side (b) The device automatically calculates the length of the other leg (x).

② Calculate the hypotenuse by measuring the lengths of the two legs.

Press “” six times briefly; one side of “” will flash.

Press “”, then measure the length of one leg (a)

Press “”, then measure the length of the other leg (b)

The device automatically calculates the length of the hypotenuse (x).

The legs must be shorter than the hypotenuse; otherwise, the message “err” will appear on the screen. To ensure accuracy, please make sure that all measurements are taken from the same point and in the order of hypotenuse and legs.

