



# UNI-T LM70PRO Laser Distance Meter User Manual

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## UNI-T LM70PRO Laser Distance Meter



1. Distance button

- Short press to enter single measurement mode
- Long press to turn on the meter (off-state)/enter continuous measurement mode

## 2. Function button

- Short press to switch measurement functions

## 3. Log button

- Short press to scroll through history Long press to save records

## 4. Unit/reference switching button

- Short press to switch the references Long press to switch the units

## 5. +/- button

- Short press to add a Long press to subtract

## 6. Buzzer button

- Short press to turn on/off the buzzer

## 7. Clear/off button

- Short press to delete records (returns back after clearing);
- Long press to turn off the meter.

## 8. Tripod screw hole

- Equipped with 1 /a 4" tripod screw hole, can measure with the tripod

## 9. Battery compartment

## Symbols

- Single/continuous measurement 1 7 Area measurement
- Triangle area measurement
- Volume measurement Direct Pythagoras measurement
- Indirect Pythagoras measurement® Auto horizontal measurement Auto vertical measurement

## Operation Instructions

Turn on the meter and it will enter the single measurement by default. Press to select the measurement mode and the flashing edge is the edge to be measured. Please pay attention to the measurement reference. The starting point will be different when different reference points are selected. The measurement reference in this manual refers to the rear reference.

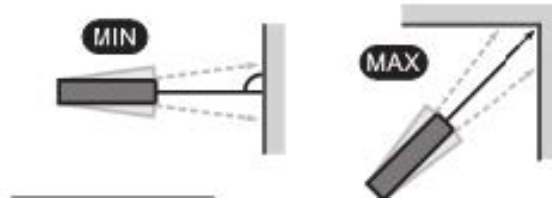


## 1. Single Measurement

- Turn on the meter and it will enter single measurement mode by default. Point the laser at the measurement target, then press, and the measurement result will be displayed at the bottom of the screen.

## 2. Continuous Measurement (Max/Min Measurement)

- This function can be used to measure the diagonal of a house, look for horizontal lines, stakeout, etc.
- Long press to enter the continuous measurement. Point the laser at the measurement target, then press to stop measuring. The MIN/MAX/current measured value will be displayed on the screen. \* This function will stop automatically after 5 minutes of continuous measurement.



## 3. Area Measurement

- Press to switch to the area measurement
- According to the flashing edge, point the laser at the first point of the target, press measure the first edge (length).
- The point at the second point, press measures the second edge (width).
- The calculation results of the length, width, circumference, and area will be displayed on the screen.



## 4. Triangle Area Measurement

- Press to switch to triangle area measurement fl.
- According to the flashing edge, point the laser at the first point of the target, press measure the first edge.
- Point at the second point, press measure the second edge.
- The point at the third point, press • to measure the third edge.
- The calculation results of the triangle area will be displayed at the bottom of the screen.



## 5. Volume Measurement

- Press to switch to volume measurement LJ.
- According to the flashing edge, point the laser at the first point of the target, press measure the first edge

(length).

- The point at the second point of the target, press. to measure the second edge (width).
- The point at the third point of the target, press to measure the third edge (height).
- The volume calculation result will be displayed at the bottom of the screen.



## 6. Pythagoras Measurement

- All Pythagoras measurements can be applied to different plane measurements, just ensure that the right-angle side is perpendicular to the object being measured.
- **Note:** In the Pythagorean Theorem, the rightangle side cannot be longer than the hypotenuse; otherwise a calculation error will occur.
- Press to switch to direct Pythagoras measurement /I.
- According to the flashing edge, point the laser at the first point of the target, press measure the hypotenuse.
- Rotate to the direction perpendicular to the target with the set reference as the center, press to measure one right-angle side.
- The calculation result of the other rightangle side is displayed at the bottom of the screen.



## 7. Indirect Pythagoras Measurement CD

- Press to switch to indirect Pythagoras measurement CD <E8.
- According to the flashing edge, point the laser at the first point of the target, press to measure the first hypotenuse.
- Rotate to the direction perpendicular to the target with the set reference as the center, press to measure one right-angle side.
- Rotate to the third point of the target with the same reference as center, press, to measure the second hypotenuse.

- The calculation result of the length between the first point and the third point is displayed at the bottom of the screen.



### 8. Indirect Pythagoras Measurement

- Press to switch to indirect Pythagoras measurement
- According to the flashing edge, point the laser to the first point of the target, press, to measure the first hypotenuse.
- Rotate to the second point of the target with the set reference as the center, press to measure the second hypotenuse.
- Rotate to the direction perpendicular to the target with the same reference as a center, Press to measure the third right-angle side.
- The calculation result of the length between the first point and the second point is displayed at the bottom of the screen.



### 9. Auto Horizontal Measurement

- Press to switch to auto horizontal measurement. Li.
- According to the flashing edge, point the laser to the first point of the target and press
- The angle degree between the hypotenuse and the horizontal edge, the length of the hypotenuse/horizontal edge/vertical edge will be displayed on the screen from top to bottom.



#### 10. Auto Vertical Measurement

- Press to switch to auto vertical measurement.
- According to the flashing edge, point the laser to the first point of the target and press
- Rotate to the second point of the target with the set reference as the center, press to measure the second hypotenuse.
- The angle degree between both hypotenuses, the length of both hypotenuses, the vertical distance will be displayed on the screen in sequence.



#### Standard Accessories

Accessories	Quantity
1.2V (AAA) NiMH batteries	3
Micro USB cable	1
Manual	1
Device	1
Cloth bag	1

#### Technical Parameters

Range (m)	70m/100m/120m
Accuracy (mm)	$\pm (2.0\text{mm}+5\times 10^{-5}\text{D})$
Single measurement	✓
Continuous measurement	✓
Area measurement	✓
Volume measurement	✓
Direct Pythagoras	✓
Indirect Pythagoras①	✓
Indirect Pythagoras②	✓
Addition/Subtraction	✓
Auto Horizontal Measurement	✓
Auto Vertical Measurement	✓
Display type	2.4" EBTN screen
Measurement references	Front/tripod mount/rear reference
Measurement units	m/ft/in/ft+in
Data logging	20 groups
Auto power off	3 minutes without operation
Laser class	2
Laser type	630-670nm, <1mW
Protective level	IP65
Battery type	3pcs 1.2V (AAA) NiMH batteries
Operating temperature	0°C~+40°C (32° F~+104° F)
Interface type	Micro USB charging cable
Size (mm)	59×28×137mm
Weight (g)	170g

1. **Range** The range data is based on the rear reference by default; the maximum range may vary depending on the model version, please refer to the screen printing and the product packing for the actual ranges.
2. **Accuracy (“D” represents the measured length)** Under good measurement conditions (good measurement surface/room temperature/indoor lighting, etc.): up to the rated range. Under bad measurement conditions (too much light, weak reflection on the surface of the measured objects or large temperature difference, etc.): the error may increase. Tip: Use a target board or a good reflective surface in case of poor daylight or target reflection.
3. **In the ideal state, the short distance accuracy can be up to 1 mm** (Ideal state refers to constant speed

(speed< 1 Mis) and flat contact surface; short distance means <1.5m)

4. **Angle Error** 0.1 ° is the error caused by the temperature, D is +/-0-45°. For example, the 0-degree error is +/- 0.3° at room temperature, the 45 degrees error is +/-0.850 at non-room temperature.

## Fault Code – Problems and Solutions

All information is displayed in code or “Error”. The following shows the codes and their explanations and the corresponding solutions:

Code	Problems	Solutions
204	Calculation error	Follow the instructions and operate again
220	Low battery	Please replace the battery or charge it
255	The reflected light received is weak, or the measurement time is too long	Please improve the reflective surface (use a reflector, white paper, etc.)
256	The received signal is too strong	Please improve the reflective surface (use a reflector, or do not aim at strong light)
261	Over range	Please measure within the range
500	Hardware malfunction	If it still appears after the meter has been turned on/off multiple times, please contact your dealer.



## Documents / Resources

	<p><a href="#">UNI-T LM70PRO Laser Distance Meter</a> [pdf] User Manual LM70PRO, LM100PRO, Laser Distance Meter</p>
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