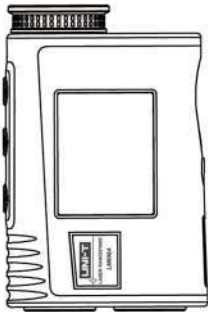


UNI-T®



LM600A Series Laser Rangefinders Operating Manual





Safety Instructions

Please read the safety and operating instructions carefully before using the product for the first time.

*Different laser labels show different models and range information.



CLASS 1 CONSUMER LASER
PRODUCT
Complies with 21 CFR 1040.10
and 1040.11 except for
conformance with IEC 60825-1 Ed.3.,
as described in Laser Notice
No.56 dated May 8, 2019

- ⚠ If users do not use the product in accordance with the instructions in this manual, it may cause damage to the product, affect the accuracy or cause personal injury.
- ⚠ Do not disassemble or repair the product by yourself. Do not modify or change the performance of the laser emitter. Please keep the product in a safe place and do not place it in the reach of children.
- ⚠ The electromagnetic radiation of the product may cause interference to other devices. Do not use the product near aircraft or medical equipment. Do not use it in inflammable and explosive environment.
- ⚠ The discarded products cannot be disposed of together with household garbage. Please dispose them according to the national or local laws and regulations.
- ⚠ If there is any quality problem, or if users have any questions about the use of the product, please contact the local dealer or manufacturer in time.

Product Introduction

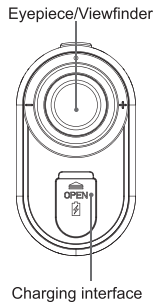
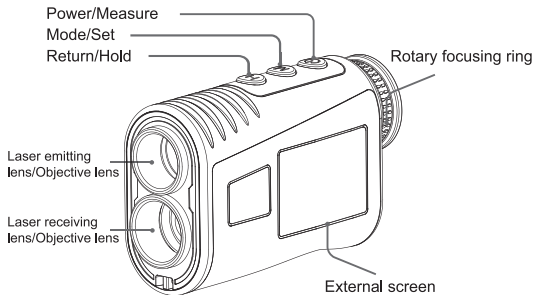
LM600A series laser rangefinders can be used in power equipment installation, highway, municipal engineering, forestry survey and design, construction, network planning, communication maintenance and golf.

- While clearly observing objects, the product can measure the distance of fixed or slow moving objects in a certain range. It has the advantages of high accuracy, short measuring time, direct distance display, low power consumption and auto power off.
- The laser power is small. The product can measure any target. It is compact and portable and has built-in rechargeable lithium battery.

Features:

- Compact and portable;
- High precision and speed, low power consumption;
- Multi-function LCD;
- Harmless class I pulse laser;
- Mute operation and auto power off;
- Built-in 750mAh rechargeable lithium battery;
- Flagpole lock mode to measure slender targets;
- Golf trajectory compensation mode to calculate the actual shot distance;
- Height and horizontal mode applies to engineering surveying.

Product Appearance

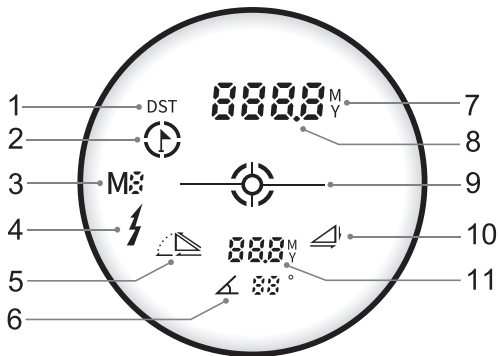













Specifications

Functions	Range				
Model	LM600A	LM800A	LM1000A	LM1200A	LM1500A
Distance range	3-600m	3-800m	3-1000m	3-1200m	3-1500m
Accuracy	$\pm 1\text{m} \pm \text{range} \times 0.2\%$				
Magnification	6X				
Dioptr adjustment range	$\pm 6^\circ$ diopter				
Height	250m	300m	450m	500m	600m
Speed range	18-300Km/h				
Angle	$\pm 45^\circ$				
Objective aperture	21.5mm				
Eyepiece aperture	15mm				
Exit pupil diameter	3.7mm				
Angle error	$\pm 1^\circ$				
Flagpole lock	√				
Golf trajectory compensation mode	√				
Slope measurement	√				
Height measurement	√				
Volume measurement	√				
Area measurement	√				
Angle measurement	√				
Mute operation	Auto power off				
Laser class	Class 1				
Laser wavelength	905nm				
Operating temperature	$-10^\circ\text{C} \sim 50^\circ\text{C}$				
Power	3.7V 750mAh lithium battery				
Product color	Black + silver				

Operating

Display Indicators/Icons:



1.  Linear distance mode
2.  Flagpole lock mode
 Flagpole unlocked: 
 Flagpole locked: 
3.  Measurement modes
4.  Flash: Scanning mode
5.  Uphill or downhill
 Uphill: 
6.  Angle
7.  Units (m: meter/Y: yard)
8. 






In linear distance mode: Display actual distance

In flagpole lock mode: Display flagpole distance

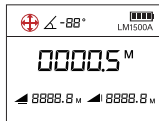
In height and horizontal mode: Display actual distance

In area measurement mode: Display measurement points P1 and P2

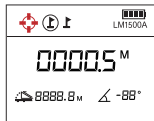
In volume measurement mode: Display measurement points P1, P2 and P3

9.  Aiming circle/dot
 Target seeking:  flashes
 Target sought:  flashes
10.  Height and horizontal measurement
11. 
 M1 displays height and horizontal distance
 M2 displays compensation distance
 M3 displays speed
 M4 displays length, width, area + angle
 M5 displays length, width, height, volume + angle

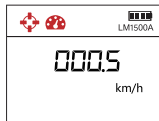
External Screen



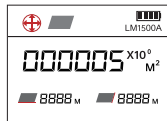
M1: Linear distance + horizontal distance/height + angle



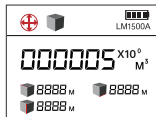
M2: Linear distance + compensation distance + flagpole distance + angle



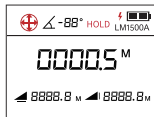
M3: Speed measurement mode



M4: Length, width, area + angle

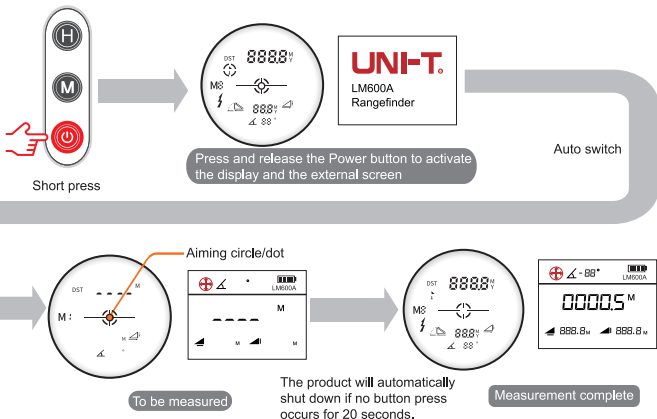


M5: Length, width, height, volume + angle

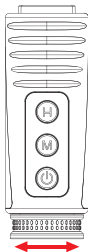


- 1.HOLD: Hold, return or clear
- 2.When the power is low, the battery frame of the external display screen flashes for alarm
- 3.Lighting symbol prompt is displayed during charging
- 4.LED light at the charging port of the product, red means charging, green means full

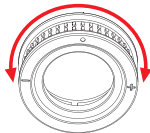
Power On



Rotary Focusing Ring



"+" and "-" on the knob indicate the direction

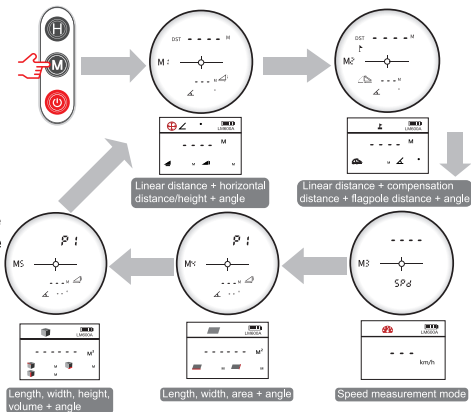


Users who can't see close (e.g., farsighted) should rotate in the "+" direction, and users who can't see far (e.g., nearsighted) should rotate in the "-" direction. Rotate the knob to match eye distance with pupil distance.

Modes

Short press **M** to switch between different modes.
There are 5 modes:

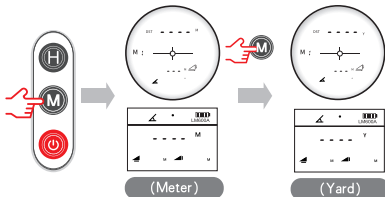
1. M1: Linear distance + horizontal distance/height + angle
2. M2: Linear distance + compensation distance + flagpole distance + angle
3. M3: Speed measurement mode
4. M4: Length, width, area + angle
5. M5: Length, width, height, volume + angle



Units and HOLD

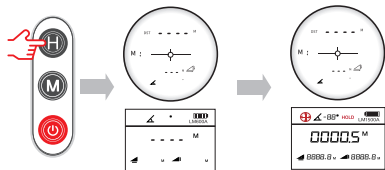
• Units

In M1 or M2 mode, long press **M** for 3s to switch between units (meter/yard).



• HOLD


In any mode, long press **H** for 3s to enter the HOLD mode. The rangefinder will remain turned on. Short press **H** to exit the HOLD mode. The rangefinder will shut down after a period of time. To return or clear, users can also short press **H**.

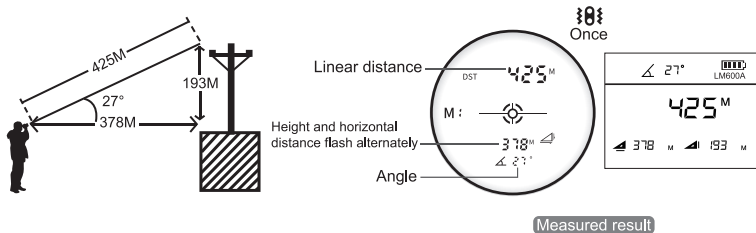


Linear Distance


Measure the target distance, height and angle.

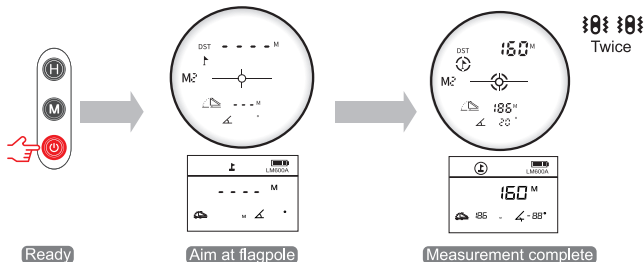
Single measurement: Short press  to take a measurement.

Continuous measurement: Long press  to scan the laser across an area and get continuously updated range readings.




Flagpole Lock

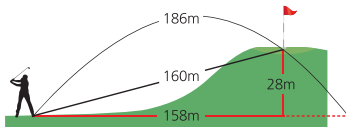
When measuring overlapping targets, long press  to display the distance of the nearest target. For example, if it is not clear whether the measured target is the flag or the forest behind it, the product with the flagpole lock function will lock on the nearest target, the flagpole.



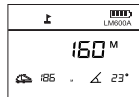
Golf Measurement

Long press  to display the golf trajectory compensation distance, height and actual distance.

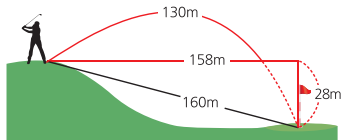
Uphill



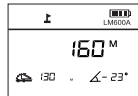
Actual distance corresponds to the value displayed inside the viewfinder




Downhill

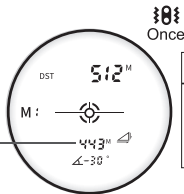
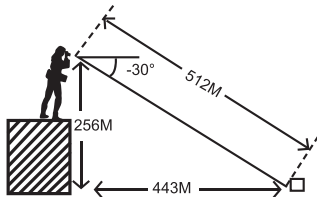


Actual distance corresponds to the value displayed inside the viewfinder

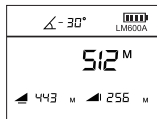


Height and Horizontal Distance

Short/long press  to display the relative height and horizontal distance of the observer to the target.




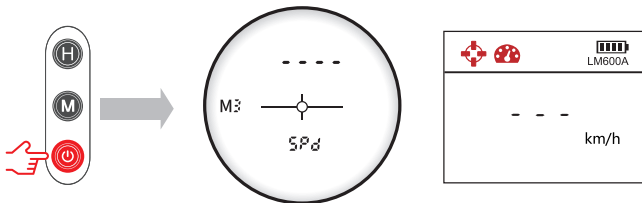

Once




Height and horizontal
distance flash alternately

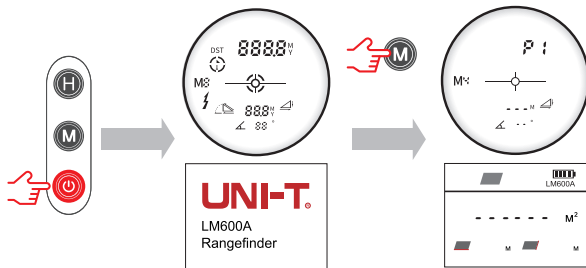
Speed Measurement

Press and hold  and aim at the moving target. The product will calculate the target speed in real time and display it on the LCD.




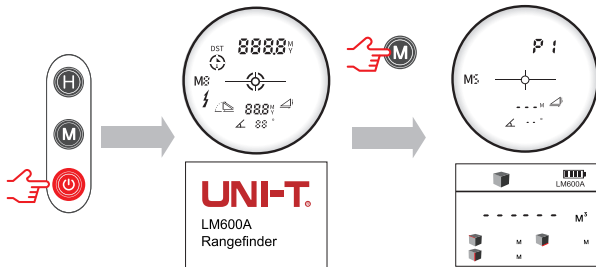
Area Measurement

In M4 mode, press  to measure the length and width of the target. The product will automatically calculate the area.



Volume Measurement

In M5 mode, press  to measure the length, width and height of the target.
The product will automatically calculate the volume.



Cautions


- The product emits an invisible and harmless infrared pulse laser which is then reflected back to the optical receiver on the product from the target. By measuring how long it takes each pulse laser to travel from the rangefinder to the target and back, the product system uses a precise charging circuit to calculate the measured distance in real time. The maximum measurement range of the product depends on the target's reflectivity, color, surface finish, size, and actual shape.

The following factors can ensure optimal range and accuracy:

- Sunny weather
- Bright color targets
- Targets with a bright appearance
- No impurities in the air
- Targets with high reflective surfaces

The following factors cannot ensure optimal range and accuracy:

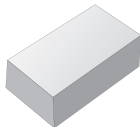
- Black targets
- Snow, rain or fog

- Targets with diffuse surfaces
- Small or micro targets
- Targets to be measured through glass
- Moving targets
- Strong light/sunlight
- When the battery status is , please charge the battery immediately.
- Do not touch the lens surface to protect the film layer.
- Do not disassemble the product. If it is damaged, send it to specialized departments for maintenance.
- Please wipe the lens gently with a cleaning cloth. Do not wipe with other objects.
- Avoid collision or heavy pressure when carrying.
- Do not bake or corrode the product.
- Store the product in a dry, cool and ventilated place, away from direct sunlight, dust and sudden temperature changes.
- Do not direct the product at the sun or strong light source.

Packing List



Laser rangefinder



Packing box



Hand strap



Carrying bag



User manual



USB Type-C cable



UNI-T®

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