



优利德。

优利德科技(中国)股份有限公司

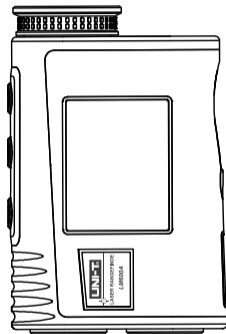
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UNI-T®



测距望远镜

**LM600A Series
Laser Rangefinders**

使用手册

Operating Manual



P/N:11040111286X
2022/08/24 REV.0



安全条例

初次使用仪器前，请先仔细阅读安全条款和操作指南

- ⚠ 在使用仪器之前请仔细阅读本手册中的所有操作指南和安全条例，没有按照本手册所指引的操作方法使用仪器有可能会造成仪器的损害、影响测量精度、对使用者或第三者的人身伤害。
- ⚠ 不要用任何方式自行打开或修理仪器，严禁非法改装或改变仪器激光发射器的性能。请妥善保管仪器，不要放置在儿童可以接触到的地方，避免无关人员的使用。
- ⚠ 仪器电磁辐射可能对其他设备和装置造成干扰，请不要在飞机或医疗设备附近使用本仪器，不要在易燃、易爆的环境中使用仪器。
- ⚠ 报废的仪器不可与生活垃圾一同处理，请按国家或者当地的相关法律规定处理报废的仪器。
- ⚠ 仪器出现任何的质量问题，或对使用仪器有任何疑问时请及时联系当地经销商或仪器厂家，我们将第一时间为您解答。

产品介绍

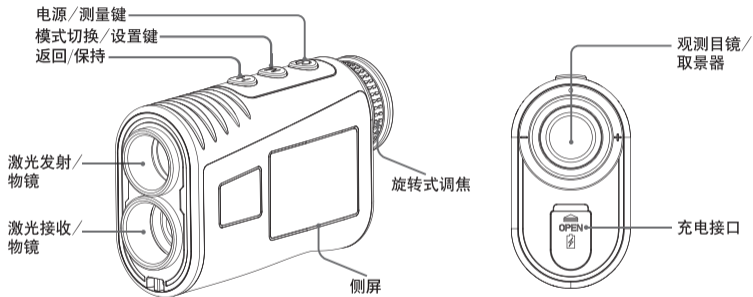
本激光测距望远镜是一种工程、高尔夫及户外运动。广泛应用于电力设备安装,高速公路,市政工程,林业勘察设计,建筑施工、网络规划勘测设计,通讯检修,高尔夫。

- 在清晰观察物体的同时,可测量固定或慢速运动物体在一定范围内的距离。具有测量精度高、测距时间短、距离显示直观、耗电低和自动断电等优点。
- 仪器的激光发射功率小、对人眼安全;不需要配对目标,可对任何目标测距;体积小,重量轻,便于携带。机内使用可循环充电锂电池供电。

产品特性:

- 小巧,轻便,方便携带;
- 高精度,高速,低功耗;
- 多功能液晶显示瞄准镜;
- 1级脉冲激光,对眼睛无害;
- 静音操作,自动断电;
- 内置 750 mAh可循环充电锂电池;
- 旗杆锁定功能,方便测量细长目标;
- 高尔夫弹道补偿功能,用于计算出实际击球距离;
- 高度和水平模式,应用于工程测量。

部件名称

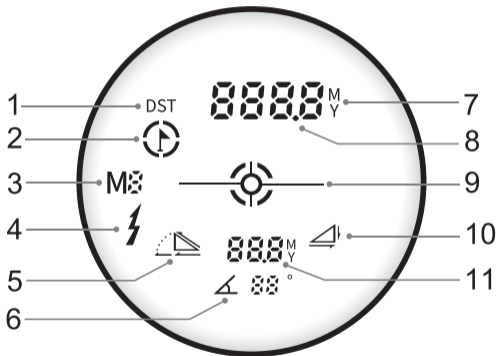


















技术指标

基本功能	量程				
型号	LM600A	LM800A	LM1000A	LM1200A	LM1500A
测距范围	3-600m	3-800m	3-1000m	3-1200m	3-1500m
测量精度	±1m ± 量程X 0.2%				
放大倍率	6X				
视度调节范围	±6°屈光度				
测量高度	250m	300m	450m	500m	600m
测速范围	18-300Km/h				
测量角度	±45°				
物镜孔径	21.5mm				
目镜孔径	15mm				
出瞳孔径	3.7mm				
角度误差	±1°				
旗杆锁定功能	√				
弹道补偿功能	√				
斜坡测量功能	√				
高度测量功能	√				
体积测量功能	√				
面积测量功能	√				
角度测量功能	√				
无声操作	自动断电系统				
激光等级	Class 1				
激光波长	905nm				
操作温度	-10°C~50°C				
电源	3.7V 750mAh锂电池				
机身颜色	黑色+银色				

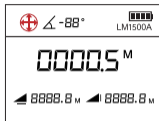
使用

内部显示屏简介：

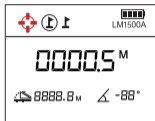


- 1>  直线距离模式图标
- 2>  旗杆锁定模式
未锁定旗杆:  显示
已锁定旗杆:  显示
- 3>  测量模式
- 4>  闪烁: 扫描模式
- 5>  高尔夫补偿模式上下坡指示
上坡: 
- 6>  角度数据显示
- 7>  测量单位[m:米/Y:码]
- 8>  直线距离模式: 显示实际距离
旗杆模式: 显示旗杆距离
高度和水平模式: 显示实际距离
面积测量模式 显示P1 P2测量点
体积测量模式: 显示P1 P2 P3测量点
- 9>  十字瞄准靶心
探索测定目标:  闪烁
探索测量目标成功: 
- 10>  显示高度和水平测量
- 11>  M1显示高度与水平距离
M2显示距离补偿
M3显示测速速度
M4长和宽距离及面积测量+角度
M5长、宽、高距离及体积测量+角度

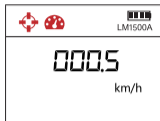
侧显示屏显示简介



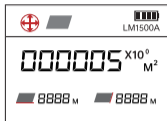
M1: 直线距离+测水平/
测高+测角



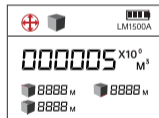
M2: 直线距离+补偿距离+高尔夫
锁旗+角度



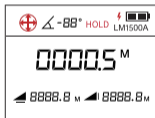
M3: 测速模式



M4: 长和宽距离及面积
测量+角度



M5: 长、宽、高距离及体积
测量+角度



HOLD: 保持和返回清除

充电状态:

1. 低电量时外显示屏电池外框闪烁报警
2. 充电时显示闪电符号提示
3. 产品充电口处LED灯，红色代表充电，绿灯代表充满

开始



短按



打开电源后, 内部显示以及侧屏显示

自动
变换



测量目标瞄准线



待测状态

如果仪器在20秒内没有
按下按钮, 将自动关机

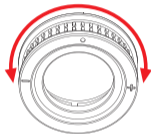


测量完成

旋转式调焦



根据旋钮上的正负指示作为参考



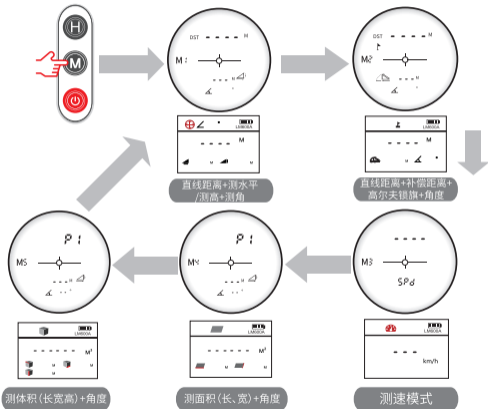
顺着“+”号方向旋转适用于近处看不清的用户(如远视眼)，顺着“-”号方向旋转适用于远处看不清的用户(如近视眼)。通过调节旋钮，使目距和瞳距一致即清晰。

模式选择

短按模式键 **M** 切换模式。

仪器设有5种模式：

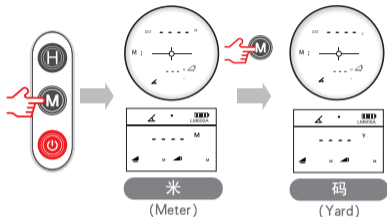
- 1.M1:直线距离+测水平/测高+测角
- 2.M2:直线距离+补偿距离+高尔夫锁旗+角度
- 3.M3:测速模式
- 4.M4:长和宽距离及面积测量+角度
- 5.M5:长、宽、高距离及体积测量+角度



单位和HOLD选择

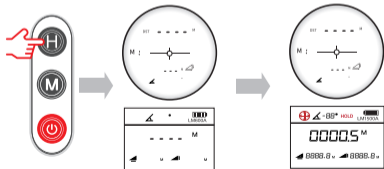
● 设置单位

在M1、M2模式下，长按3s“M键”
Ⓜ 切换单位（米\码）。



设置HOLD

- 在5种任意模式下长按3s“H”键[Ⓜ]
打开HOLD，仪器会一直保持开机。
短按“H”键退出HOLD，仪器在默
认的时间内关机，短按“H”键也可
返回清除。

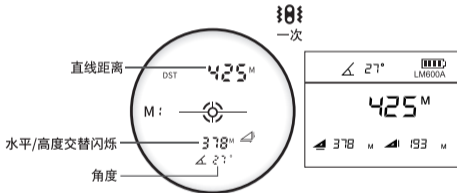
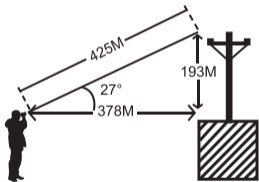


直线距离测量

测量目标的距离，高度以及角度。

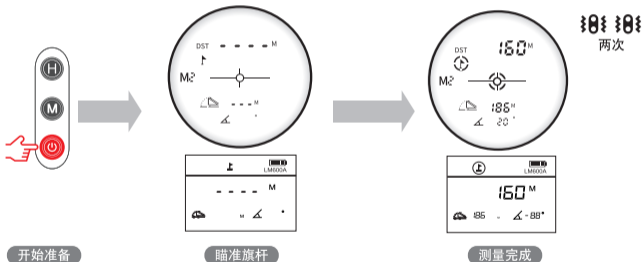
单次测量：短按测量键  测量一次距离

连续测量：长按测量键  扫描距离，实时显示扫描目标距离。



旗杆锁定

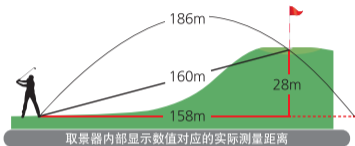
当测量重叠目标时，长按测量键 ，显示最近目标的距离，
例如：无法确定测量的距离是旗帜还是其后面的树林，锁定功能将锁定最近的目标——旗杆距离



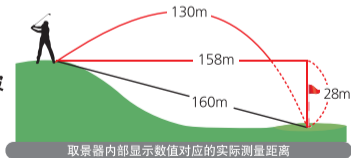
高尔夫测量

长按测量键 ，显示高尔夫补偿距离，实际距离和高度。

测量上坡

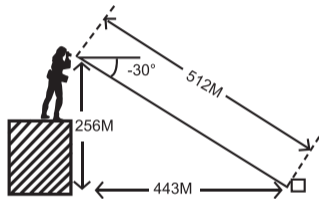


测量下坡

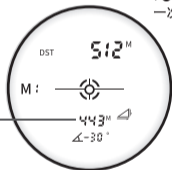


高度和水平距离

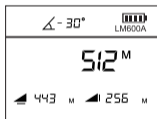
短/长按测量键 ，显示观测者到目标的相对高度和水平距离



水平/高度
交替闪烁

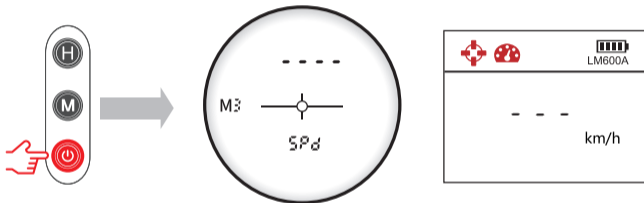



一次



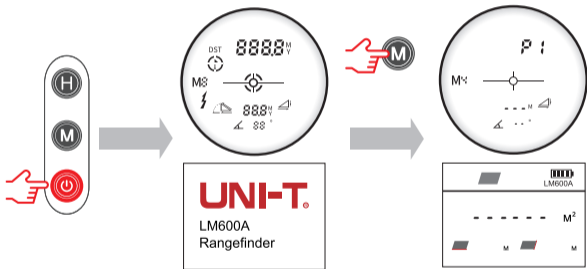
测速模式

按住测量键  移动目标，仪器会实时计算移动目标速度并在LCD上显示。



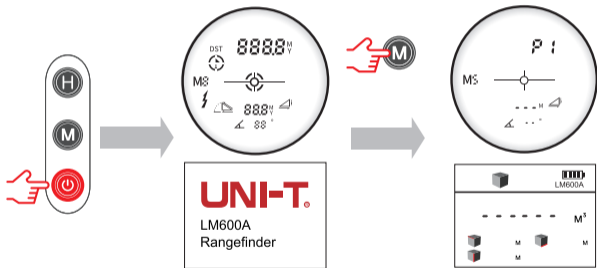
面积测量

开机选择M4模式按测量键  测出目标长、宽，仪器会自动算出面积。



体积测量

开机选择M5模式按测量键  测出目标长、宽、高，仪器会自动算出体积。



注意事项


● 多功能测距仪发射出不可见、无损视力的红外脉冲激光，然后将其从选定目标反射回光学接收器中。通过测量每个脉冲激光从测距仪到目标并返回所花的时间，系统采用先进的精确充电电路来即时计算出被测距离。该设备的最大测量范围取决于目标的反射率、颜色、表面光洁度尺寸和实际形状。

下列因素能确保获得最佳测量范围和精度：

- 晴朗天气
- 亮色目标
- 具有光亮外表的目标
- 空气中无任何杂质
- 具有高反射面的目标

下列因素不能确保获得最佳测量范围和精度：

- 黑色目标
- 雪天、雨天或雾天
- 有漫反射表面的目标
- 细小或微型目标
- 需穿透玻璃测量的目标
- 动态目标
- 强光干扰/猛烈太阳光

- 当电池显示  电量不足时，应及时给电池充电，否则测距误差会增大。
- 请勿用手指触摸镜头表面，以免损坏镜头表面的膜层。
- 本机是经过精密仪器精确调校的，请勿随意拆卸，如有损坏，应送专门部门进行维修。
- 请用擦镜布轻轻擦拭镜头，切勿用其他物体擦拭。
- 携带时，应避免碰撞或重压。
- 携带时或使用，不要使其受到烘烤或腐蚀。
- 存放时应注意防潮，宜存放在干燥、阴凉、通风的地方，防止太阳直射，避免灰尘和温度突变。
- 切忌将本机直接对准太阳或强光源发射，以免损坏机内光敏器件。

装箱清单



主机



包装盒



挂绳



布包



用户手册



保修卡



USB Type-C线



Safety Instructions

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

- ⚠ 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

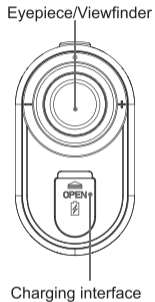
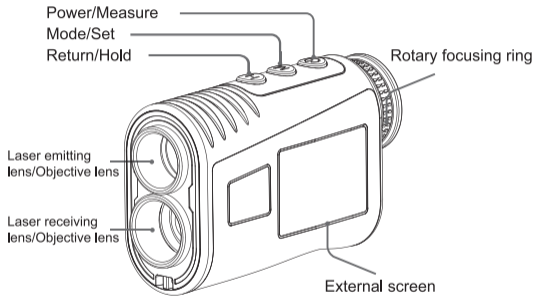
LM600A series laser rangefinders can be used in power equipment installation, highway, municipal engineering, forestry survey and design, construction, network planning, communication maintenance and golf.

- 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

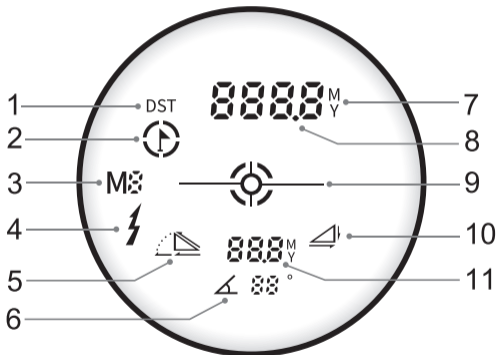


















Specifications

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. 
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

In linear distance mode: Display actual distance

In flagpole lock mode: Display flagpole distance

In height and horizontal mode: Display actual distance

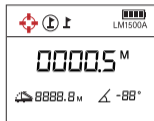
In area measurement mode: Display measurement points P1 and P2

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

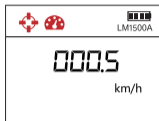
External Screen



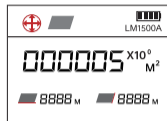
M1: Linear distance + horizontal distance/height + angle



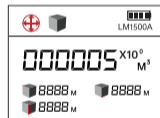
M2: Linear distance + compensation distance + flagpole distance + angle



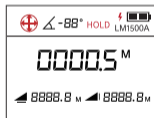
M3: Speed measurement mode



M4: Length, width, area + angle

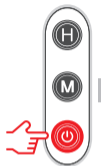


M5: Length, width, height, volume + angle



- 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

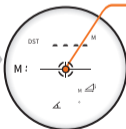


Short press



Press and release the Power button to activate the display and the external screen

Auto switch



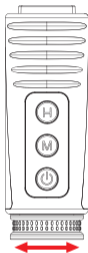
To be measured



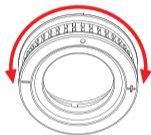
Measurement complete

The product will automatically shut down if no button press occurs for 20 seconds.

Rotary Focusing Ring



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

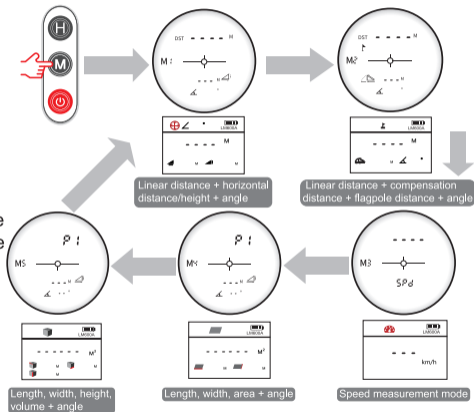


Users who can't see close (e.g., farsighted) should rotate in the "+" direction, and users who can't see far (e.g., nearsighted) should rotate in the "-" direction. Rotate the knob to match eye distance with pupil distance.

Modes

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

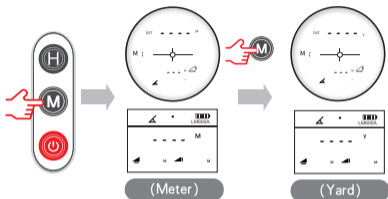
1. M1: Linear distance + horizontal distance/height + angle
2. M2: Linear distance + compensation distance + flagpole distance + angle
3. M3: Speed measurement mode
4. M4: Length, width, area + angle
5. M5: Length, width, height, volume + angle



Units and HOLD

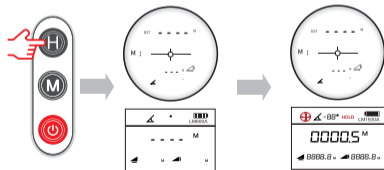
• Units

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**.

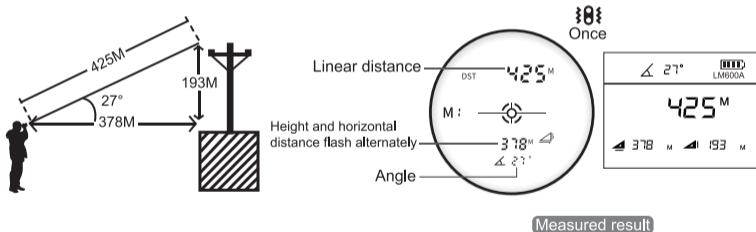


Linear Distance


Measure the target distance, height and angle.

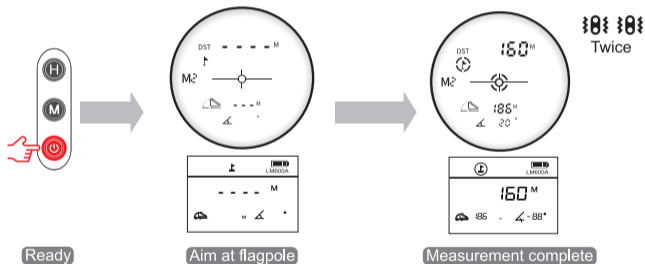
Single measurement: Short press  to take a measurement.

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




Flagpole Lock

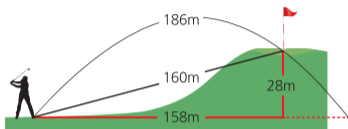
When measuring overlapping targets, long press  to display the distance of the nearest target. For example, if it is not clear whether the measured target is the flag or the forest behind it, the product with the flagpole lock function will lock on the nearest target, the flagpole.



Golf Measurement

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

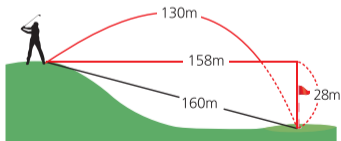
Uphill



Actual distance corresponds to the value displayed inside the viewfinder




Downhill

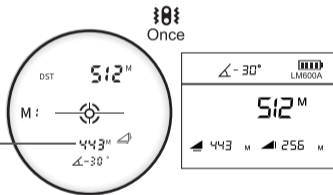
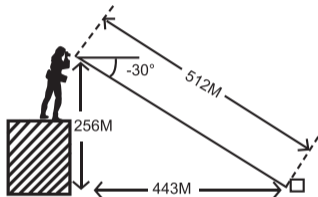


Actual distance corresponds to the value displayed inside the viewfinder



Height and Horizontal Distance

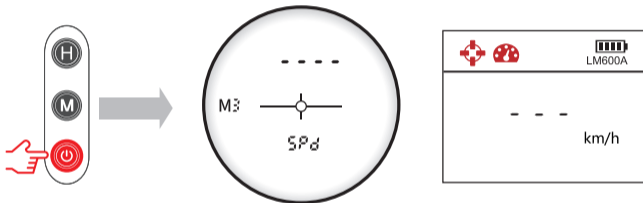
Short/long press  to display the relative height and horizontal distance of the observer to the target.




Height and horizontal distance flash alternately

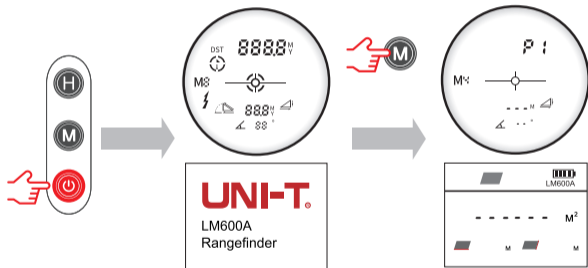
Speed Measurement

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.




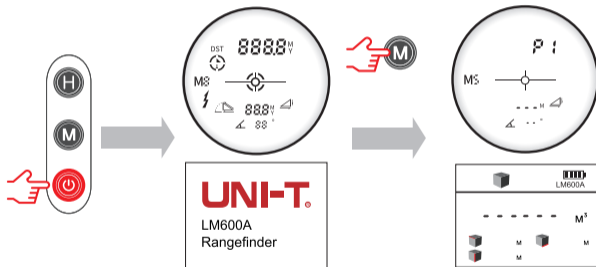
Area Measurement

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:

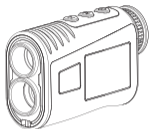
- Sunny weather
- Bright color targets
- Targets with a bright appearance
- No impurities in the air
- Targets with high reflective surfaces

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