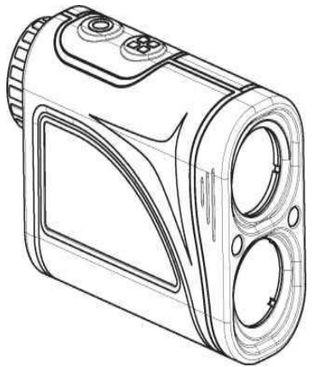
LASER RANGEFINDER(LX7)

Manual in English



CUSTOMER SERVICE: service@tavool.com Any problem, question or concern, please feel free to contact us via email, we always stand behind our products to offer proper solutions and won't let you suffer any loss.

WELCOME

Thanks for choosing TAVOOL laser rangefinder to help your jobs. This user manual will provide you with valuable information necessary for the proper care and maintenance of your new laser rangefinder

PLEASE READ ALL OF THE INSTRUCTIONS BEFORE USING THE LINE LASER

- SAFETY AND ACCESSORIES
- SPECIFICATIONS
- PRODUCT DETAILS AND LCD DISPLAY INSTRUCTION
- OPERATING
- COMMON QUESTIONS AND ANSWERS
- MAINTENANCE WARRANTY
- WARRANTY

SAFETY

• Do not look directly at the laser beam when using the product.

• Do not aim from the laser holes or look at the optical system while pressing the power " ⏻ " button to avoid damage to the eyes.

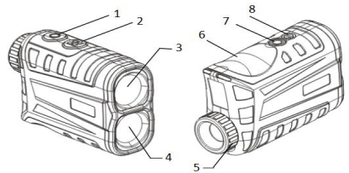
STANDARD ACCESSORIES

• Range finder (1 piece)
• USB to Type C charging cable (1 piece)
• Manual (1 piece)
• Carrying bag (1 piece)
• Cleaning cloth (1 piece)
• Desiccant (1 piece)
• Hand rope (1 piece)
• Packing box (1 piece)

SPECIFICATION

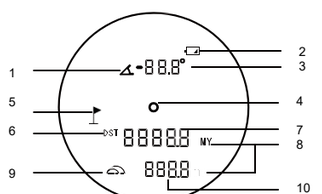
Mode	LX7
Laser type	905nm
Measuring range of distance	5-700m
Resolution	0.1M
Measuring range of angle	±60°
Magnification	6X
Eyepiece diameter	16mm
Objective diameter	25mm
Range measurement precision	About ±1m/±0.5%(Take the maximum value)
Automatic shutdown time	12s
Angle measurement precision	About ±1 °
Net weight	174g
Dimensions	104*70*37mm
Power	750mAh lithium battery
Charging cable	Usb to type-c
Operating temperatures	-10°C-40°C

PRODUCT OVERVIEW



1.Power button	2.MODE/UNITS button
3.Objective/laser emitter	4.Laser receiver
5.Eyepiece focusing	6.Battery compartment
7. Thread connector（1/4'）	8. Battery cover

LCD DISPLAY INSTRUCTION



- 1.“ ” Angle mark, displayed in the angle mode.
- 2.“ ” Electric quantity mark
- 3.“ ” Angle value
- 4.“ ” Aiming mark(bull’s eye)
- 5.“ ” Flagpole mark, displayed in flagpole lock mode
- 6.“ **DST** ” Distance marker
- 7.“ ” Distance value
- 8.“ **MY** ” Measuring unit mark
- 9.“ ” Trajectory correction mark
- 10.“ ” Height value or Trajectory correction value

The range of rangefinder is defined as follows:

1) the measurement object has moderate reflectivity：Such as building walls.

2) the target reflection surface is perpendicular to the laser emission direction

3) the area of the reflector is not less than 2m*2m

4) the weather is clear but not in direct sunlight.

NOTE: It is recommended that you use a tripod to fix the rangefinder when measuring remote targets, so as to reduce the hitter of the machine in the process of

measurement, and obtain better measurement results.

Measurement target:

Road signs

Building

Golf Flagpole

Trees

The rangefinder suitable for measuring high reflectivity object (such as street signs), medium reflectance object(such as a building wall), and low reflectivity object (such as trees and golf flagpole), When the reflectivity falls to a certain extent, the range decreases accordingly.

The factors that affect the measuring range, measuring speed and measuring accuracy:

1) **Reflectance of object:** For example,high reflectivity object at 1500 meters can be measured, but medium reflectance object can be measured at about 1000 meters. low reflectance object can be measured at about 700 meters only. (for diffuse reflection objects, such as water, it may not be measured)

2) **Object shape:** when the reflector area of the measured object is too small or uneven, measuring capability will be reduced accordingly. Such as trees, flagpoles, etc.

3) **Measuring angle:** when the laser angle is illuminated vertically on the reflecting surface of the measuring object, measuring capability is better, otherwise the measuring capability will be reduced. It is not guaranteed to achieve the measuring capability when measuring with measuring angles as manual advised.

4) **Measuring environment:** the measuring capability will be reduced under strong sunshine, the concentration of water vapor and suspended particulate matter in the air. For example rain, fog, snow, fog and haze weather.

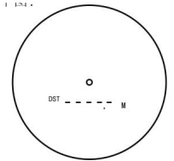
NOTE:This model can enter the ramp correction mode for golf flagpole locking when measuring the flagpole with complex background and small area in golf. The golf flagpole locks the effective distance at around 250Y.

OPERATION INSTRUCTION

1. STAR UP:

The rangefinder has two buttons: power on / measurement button ' ' and mode / unit switch button' '. After recharged, press the button ' ' briefly to turn on the instrument. The instrument enters the distance measurement mode by default, and

the display interface is as follows:



2. ADJUST THE FOCUS

The range finder is designed with an adjustable eyepiece (dioptre). By adjusting the focusing dioptre within a -5 to +5 range, **people with far sighted vision can use laser range finder without glasses.** Looking through the eyepiece,turn the dioptre left or right until the view is focused with clarity to suit you

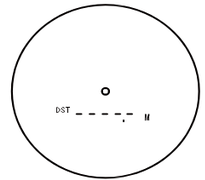
3. UNIT SWITCHING

Press and hold button " " for a long time, and the distance unit will switch between M and Y. And unit will be displayed as memory mode, i.e. the unit will be displayed as the unit in the last shutdown state.

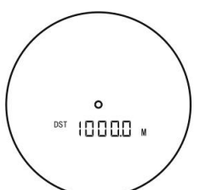
4.MEASUREMENT MODE SELECTION

Short press button " " to switch the distance measurement mode and the slope correction mode back and forth.
And unit also will be displayed as memory mode.

1. Distance measuring mode

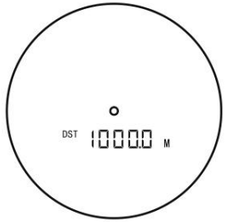


Short-time press power button ' ', the bull's eye " " will be blinked as " ", finally the distance value will displayed.The display as shown in the below figure.



* In the distance measurement mode,long press " " and bull's eye

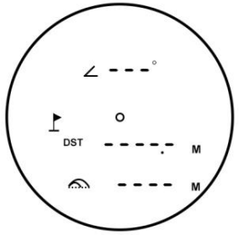
will be blinked as " ", finally the distance value will displayed.
The display as shown in the below figure.



In the distance measurement mode, long press " " and the bull's eye " " will flash " " the instrument will scan the measurement target (i.e. continuous measurement), and the measurement value will be displayed on the screen in real time.

2.Trajectory correction mode

The display as shown in the below figure.

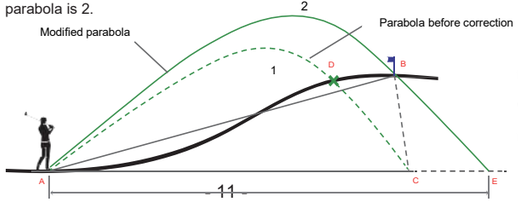


The slope correction mode is often used in golf, which is also known as golf flagstick locking mode.

For example:

When the slope is positive, the hitting distance is far

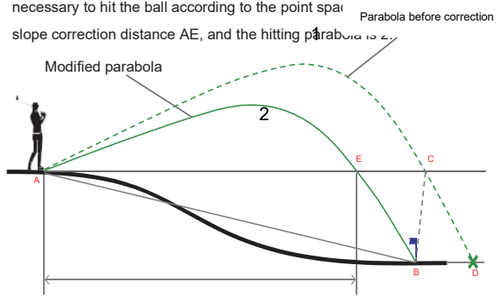
Distance: AB distance = AC distance, if according to the actual distance, the parabola of hitting is 1, because the slope is positive, the actual can only fly to point C. To reach point B, it is necessary to hit the ball according to the point spacing of the ramp correction distance AE, and the hitting parabola is 2.



When the slope is negative, the hitting distance should be close

Distance: AB point spacing = AC point spacing. If it is based on the actual distance, the hitting parabola is 1. Because the slope is negative, it can only fly to point C. if it is to reach point B, it is necessary to hit the ball according to the point spac

slope correction distance AE, and the hitting parabola is 2.



3. Ramp correction mode

1. Align the target center" " with the measurement target, press the button " "briefly, and the target center flashes from " " to " " until the measurement value is obtained, as shown in the following figure.

2. Long press the " " button, and conduct continuous measurement around the golf flagpole. When the instrument is locked to the flagpole, the instrument will vibrate instantaneously, prompting the user to get the measurement value. At the same time, the flagpole icon " " is displayed as " " and the display interface is as follows:

COMMON QUESTIONS AND ANWSERS

1. Is this range finder with slope adjustment function? And how to switch it from Y to M?

A:Yes.it has. It's a range finder that measures distances from the location you are shooting from to the object your rangefinder locks onto. Wherever you want a distance measured it will give it to you and even includes a slope compensation measurement too if the linear distance has slope between the two points.

And you could press " " for 2 seconds to switch the "Y" to "M".

2. How does this work in low light conditions? Dusk and dawn. Can you still see the readings?

A: The range of this rangefinder is related to the nature of the target being measured, the angle between the beam and the target, and the visibility of the weather. Generally speaking, the smoother the target, the brighter the color, the larger the area, the more vertical the beam between the target surface, and the clearer of weather, the target is measured far, otherwise the closer. So we recommend that you could use it in a sunny day,its results would be more accurate.

3. What kind of battery does it use? Is it rechargeable via usb?

A:This rangefinder is rechargeable,no battery needed.And it comes with a USB to type c charging cable. If there is no electricity to continue working, you just need to recharge it.

4. **What I should do when I have some problems about the rangefinder? Or there are something lost in the package?**

A: Contact us directly. Any questions or problems, please feel free to contact us via email: **service@tavool.com**. We offer 1 year warranty and will provide you the best solution according to your exact issue. WE NEVER LET OUR CUSTOMER SUFFER ANY LOSS!

NOTE

● Do not touch the lens surface with your fingers during use, otherwise the film on the lens surface will be damaged.

● This instrument is precisely adjusted by the instrument, please do not disassemble it at will

●When the exposed glass piece is contaminated, please wipe it gently with a lens velvet cloth. Do not wipe it with other objects to avoid damaging the surface layer of the optical glass.

● When carrying or using, avoid collision or heavy pressure, and do not let it be baked or corroded.

● Pay attention to moisture when storing. Store in a dry, cool, ventilated place to prevent direct sunlight and avoid sudden changes in dust and temperature.

● If the laser range finder is damaged, it should be sent to a special department for maintenance. Do not disassemble it yourself.

● Please do not use the laser range finder to sunlight or strong light to prevent damage to the photosensitive element Bad.

WARRANTY

1. We offer one year warranty after sold the product, any question, please contact us directly,we would handle it for you

2. The warranty period starts from the date of purchase, but please also observe the following warranties.

1) During the warranty period, we will first judge the instrument which have problems and then decide to repair or replace the damaged parts or exchange a new instrument for you.

2) Declaration:

- ❖ There are no warranties for below situations:
- ❖ Unauthorized disassemble of the instrument
- ❖ Incorrect operation or artificially damaged instrument
- ❖ Damages caused by not using original accessories
- ❖ Hand over the instrument to an unauthorized person or unit for repairing
- ❖ Product serial numbers was modified.