

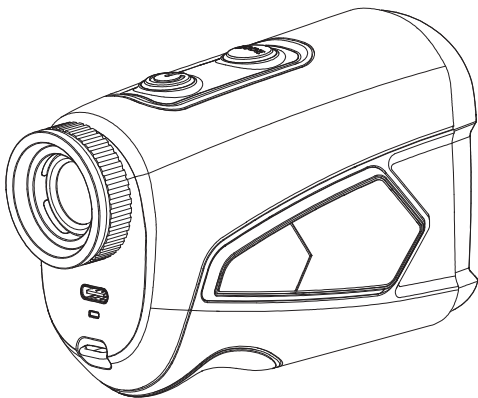


WOSPORTS

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Range Finder User Manual

L-14 1500 Yards



How to transfer the distance units Y/M/FT?

1. In the state of power-on, long press the Mode button.
2. Short press the Power button to switch to Y/M/F.
3. Use the Mode button to make your selection.
4. To save, either short press the Power button again or stop the operation for 5 seconds.

Why doesn't this device work?

First, remove the plastic film from the battery and check the '+' and '-' positions before installing it.

Second, check the battery power on the LCD screen. Low power may prevent the device from working properly.

Third, the environmental factor, such as rain, snow, fog, haze, sunlight angle etc., will affect the device.

Why doesn't seem to give accurate range?

1. Ensure the rangefinder has enough power before use.
2. Check the unit of measurement (Yards/Meters/Feet) on your rangefinder.
3. The range is from 5 yards to the maximum distance. It will not provide data if the target is beyond the minimum or maximum range.
4. The environmental factor, such as rain, snow, fog, haze, sunlight angle etc., will affect the accuracy.

How to make it clear?

Please turn the eyepiece to adjust the focus and make the view clear.

Why does it tell the tree is 10 yards from my stand, but the actual distance is 35 yards?

The distance measurement requires a cone-shaped barrier-free line. The farther the distance, the larger the diameter. For a distance measurement of 500 meters, no objects should be within a 5-meter diameter.

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1. Product Specifications

1.1 General Index

Range	5-1500(Y)
Range Measuring Accuracy	$\pm 1Y$
Angle Measuring Range	-60° - 60°
Angle Measuring Accuracy	$\pm 1^\circ$
Laser type	905nm(Class I)
Magnification	7X
Exit Pupil Diameter	3.7mm
Object Lens Size	22mm
Field Angle	7.5°
Battery	800mAh
Weight	170g
Dimensions	120*40*70mm
Operating Temperature	-10°C - 50°C

1.2 List of Accessories



Rangefinder



Carry Bag



Lens Cloth



USB Cable



User Manual



Hang String

1.3 Parts of Device

1. Receiving Lens
2. Emitter / Objective Lens
3. Mode / Distance / Units Selection
4. Power Start Button
5. Focusing Ring
6. Eyepiece
7. Lanyard Anchor
8. Magnetic Iron
9. Slope on/off Switch

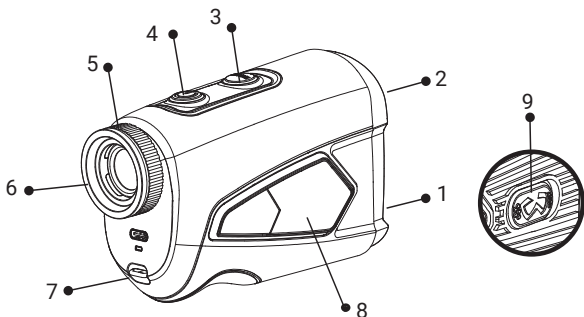


Figure 1 Parts of device

1.4 LCD Display Description

- | | |
|---|-----------------|
| 1. Battery Indicator | 7. Angle |
| 2. Target | 8. Vibration |
| 3. Range Data | 9. Flag Lock |
| 4. Meter / Yard / Feet | 10. Bow Hunting |
| 5. Vertical / Horizontal /
Slope Compensation Distance | 11. Model |
| 6. Slope Distance Symbol | |

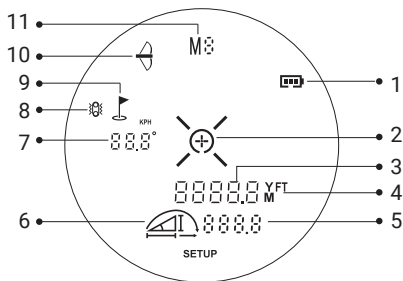


Figure 2 LCD Display

Note:

- The full LCD only shows when turn on. Some icons will not display while using.
- LCD screen uses the most advanced technology, but this does not ensure completely removal of dust. When using this product, the LCD screen will be in high magnification and dust may appear in the form of defects, but does not affect ranging function.

2. Instructions Considerations

2.1 Measurement Considerations

■ Measurement targets

The range finder is suitable for measuring high reflectivity objects (such as highway's signpad), moderate reflectivity objects (such as building's wall) and low reflectivity objects (such as tree, golf flag, utility pole, animal etc.) When the reflectance is reduced to a certain extent, the range will be reduced accordingly.



Building's Wall



Golf Flag



Trees



Utility Pole



Animals

Figure 3 Measurement targets

■ Factors that influence ranging capability

- 1) **Target reflectivity:** Generally speaking, the higher the reflectivity of the object, the better the ranging ability. (It may be fail to measure the target that can hardly create diffuse reflection, such as water surface.)
- 2) **Target shape:** When a target is too small or uneven, ranging capability and range corresponding speed will decrease.
- 3) **Measuring angle:** The ranging ability would be better if the measured object is vertical with laser emission's direction. It's possible that the measuring range cannot meet the ranging ability specified in the manual under some extreme conditions.

4) **Environment factor:** The environment factors including sunshine intensity, the concentration of water vapor in the air and suspended particles.(such as rain fog, snow, fog, haze, etc.)

■ **The range ability of the product defined under the following conditions:**

- 1)The measurement target is with moderate reflectivity, such as building walls.
- 2)The measured object is vertical with laser emission direction.
- 3)The weather condition is sunny but not direct sunlight.

2.2 Battery Instructions

■ **Power indication**

Full power: 

Low battery, please charge: 

■ **Charging**

1. Please use DC 5V adaptor to charge.
2. Green light will light when succesesfully connected whit the power. Red light will light while charging with USB cable, and it will turn off when fully charged.

When icon "  " flashes, the battery is low and should be recharged immediately to avoid inaccuracy or non-working.

3. General Operation

3.1 Power on/Power off

Power on: in the state of power-off, press the power button for more than 2 seconds and all the signs will show on the LCD screen. If only short press the power button, the LCD screen just displays last used or default mode signs, not all signs.

Power off: The product will shut down automatically in 8 seconds if with no operations.

3.2 Slope on/Slope off

When the slope switch shows red, it will close the slope compensation function to meet the regulations of golf championships. When the slope switch shows black, the slope is open and it can be ready for the amateur use and training.

3.3 Aiming Symbol and Units Selection

In the state of power-on, long press the Mode button, SETUP will appear, and $\text{---}/\text{---}$ will flash. Short press Mode button to select the aiming symbol.

Short press the Power button again, and **Y/M/FT** will flash.

Then short press the Mode button to choose units, Y/M/FT.

Short press the power button again or stop the operation for 5 seconds, it will save and exit setting.

3.4 Single Measurement /Continuous Measurement / Failure

Single measurement: Short press the power button to start single measurement

Continuous measurement: Press the power button and keep over 2 seconds. the measured distance value displays alternately on the LCD screen, and the target sign + will show on the screen until release the power button.

Failure measurement: Failure Measurement shows like figure 6. The product will shut down automatically in 8 seconds if with no any operations. Press the power button again and it will start on.

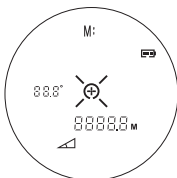


Figure 4
Single
Measurement

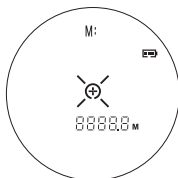


Figure 5
Continuous
Measurement

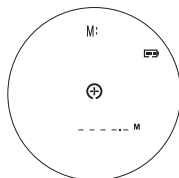


Figure 6
Failure
Measurement

Note: If the measure fails, the measured value on the screen will display as: "--"

4. Model Operating Instructions

4.1 L-14

The model is a function-enhanced models for golf sports, with Range/Angle/Flag locking/Slope distance correction/Horizontal/Vertical distance.

Mode Icon

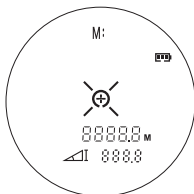


Figure 7

Single measurement

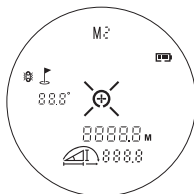


Figure 8

Slope on

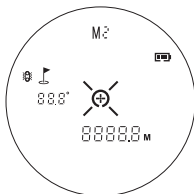


Figure 9

Slope off

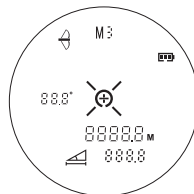


Figure 10

Hunting mode

Mode Description

- 1) M1 mode, short press the power button after targeting, vertical and straight-line distance will display on the screen.(as figure 7)
- 2) M2 mode with slope on, aim at the flag or other targets, short press power button, the flag sign stops flashing, and the machine vibrates. Angle, range data of the flag and the compensation distance show on the screen.(as figure 8)
M2 mode with slope off, only angle and range data of the flag show on the screen.(as figure 9)
- 3) M3 mode with bow hunting, aim at the target, and short press power button, it will professionally show the angle, straight-line and horizontal distance.(as figure 10)

5. Using Scene Description

5.1 General Using Scene Description

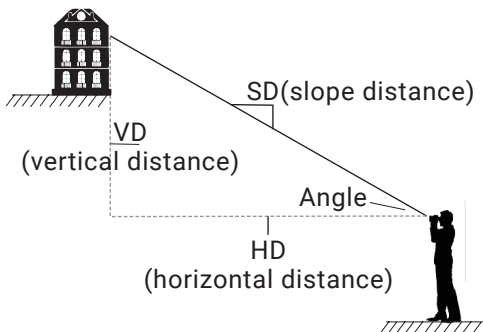


Figure 11

SD/Angle/HD/VD

5.2 Golf Slope Correction Using Scene Description

Golf model built in high-precision angle sensor, while during the measuring process, it will calculate the driving distance (compensation distance) by Golf trajectory equation with distance AB and the angle.

In the positive slope, the compensation distance is further than real distance. See figure 12, $AB=AD$. According to the actual distance, hitting like parabola 1, the real drop point is E. But in the positive slope, you should hit like parabola 2, it will drop in B point. And the compensation distance is AC.

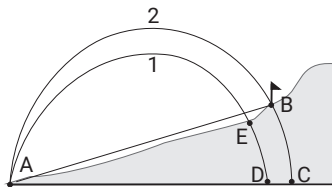


Figure 12

The driving diagram of positive slope

In the negative slope, the compensation distance is shorter than real distance. See figure 13, $AB=AD$. According to the actual distance, hitting like parabola 1, the real drop point is E. But in the negative slope, you should hit like parabola 2, it will drop in B point. And the compensation distance is AC.

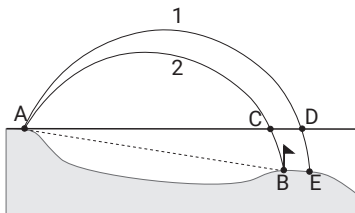


Figure 13

The driving diagram of negative slope

6. Safety Precautions

6.1 Transport/Storage/Maintenance/Disposal Transport

Please add enough cushioning material in the box to avoid damaging the machine while in transport. When the machine falls on the ground, and makes a strange noise, please remove the battery immediately and stop using.

- **Storage:** Please keep the product out of reach of children. Don't put it on a high and unsteady place to prevent falling on the ground. Do not place the product in a high temperature environment or it may cause damage of the products.
- **Maintenance:** If the product is used in rapidly changing temperature, The lens surface will covered by fog. So please don't use it before the fog evaporates. Please clean with lens cloth but not your hands when it is dirty, or it may cause damage to the glass coating.
- **Disposal:** The product package and discarded products should be recycled or disposed properly in accordance with local laws.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

- Consult the dealer or an experienced radio/TV technician for help. Shielded interface cable must be used with the equipment in order to comply with the limits for a digital device pursuant to Subpart B of Part 15 of FCC Rules.

Specifications and designs are subject to change without any notice or obligation on the part of the manufacturer.