01 Parameters

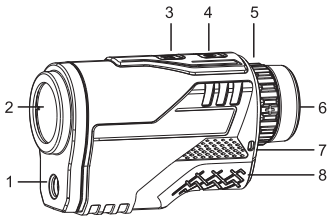
Distance Range	10~1500/2000/2500m
Measuring Accuracy	±1m
Angle Range	±90°
Angle Accuracy	±1°
Laser Type	905nm (Class 1 laser)
Magnification	8X
Object Lens Size	30 mm
Effective Eyepiece	20 mm
Exit Pupil Diameter	3.75 mm
Exit Pupil Distance	16 mm
Field Angle	6°
Battery	Built-in lithium battery (800mAh)
Weight	240 g
Dimensions	130*76*50 (mm)

02 Accessories

Rangefinder *1 PCS
Cleaning Cloth *1 PCS
Manual *1 PCS
Charging Line *1 PCS
Lanyard *1 PCS
Bag *1 PCS
Box *1 PCS

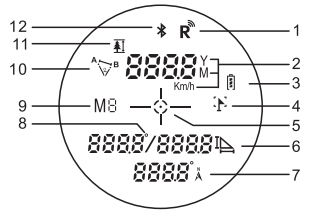
03 Parts Of Product

1) Laser Firing Lens
2) Objective Lens / Laser receiver lens
3) Mode Button
4) Power Button / Range Button
5) Eyepiece Adjustment Ring
6) The Eyepiece
7) Lanyard Hole
8) Charging hole plug



04 Screen Display

1. Vibration symbol
2. Unit symbol
3. Electric quantity symbol
4. Flag pole lock icon
5. Target center symbol
6. Horizontal distance/ Vertical height icon
7. Azimuth icon
8. Angle unit
9. Mode coding
10. Distance between two points symbol
11. Height of two points symbol
12. Bluetooth symbol



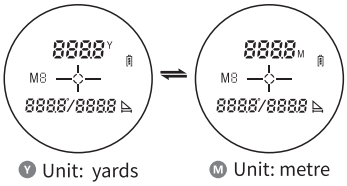
05 Power ON/OFF

Power button

Power ON
Short press the ⏻ button to turn on.

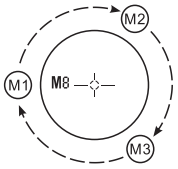
Power OFF
The machine will shut down automatically after 8 seconds if no any operations.

06 Unit / Mode Switch



Ⓨ Unit: yards Ⓜ Unit: metre

Unit Switch(meter/yard)



Mode Switch

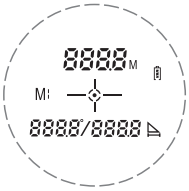
Mode button

Unit Setting:
In the boot state, press the mode button for more than 2 seconds, then unit switch can be activated. The unit can be switched and retained after the mode button released.

Mode Switching:
In the boot state, short press the mode button to switch the measurement mode.

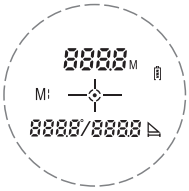
- After power on, the last set mode and measurement unit will be retained.

07 Basic Operation



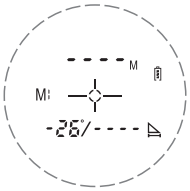
Single measurement

Single Measurement:
Short press the ⏻ button to start the single measurement.
- Take M1 mode as an example



Continuous measurement

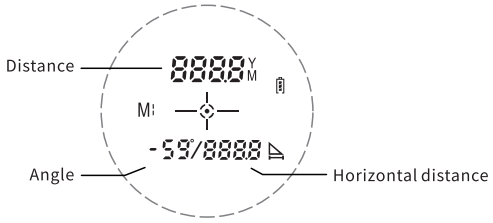
Continuous Measurement:
Press the ⏻ button and keep over 2 seconds, the measured distance value displayed alternately on the screen, and the target sign " • " will be showed on the screen until release the ⏻ button.



Failure measurement

Failure Measurement :
If the measure fails, the data on the screen will be displayed as: "-----"
Press the ⏻ button to remeasure.

08-1 Horizontal Distance Mode



Operation Method:

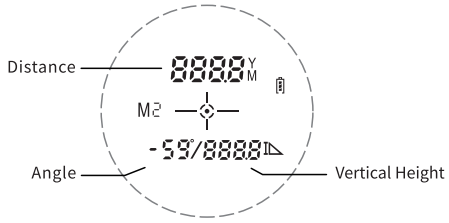
In M1 mode, short press the ⏻ button after aiming at the target, the Distance, Horizontal distance and Angle to the target will be displayed on the screen.

(1) *When the "-" sign is displayed in front of the angle, it means that the angle is the depression angle. Angle range ±90°.*

(2) *The mode supports continuous measurement function.*

(3) *Within 100 (m/yd),Distance and horizontal distance data with decimal point Beyond 100 (m/yd), All data without decimal point.*

08-2 Vertical Height Mode



Operation Method:

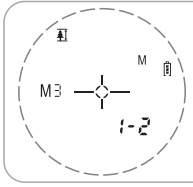
In M2 mode, short press the ⏻ button after aiming at the target, the Distance, Vertical Height and Angle to the target will be displayed on the screen.

(1) *When the "-" sign is displayed in front of the angle, it means that the angle is the depression angle. Angle range ±90°.*
When a - sign is displayed in front of the height, it means that the measurement target is lower than the level of the measuring person.

(2) *The mode supports continuous measurement function.*

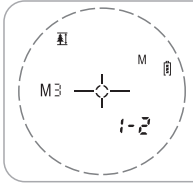
(3) *Within 100 (m/yd),Distance and horizontal distance data with decimal point Beyond 100 (m/yd), All data without decimal point.*

08-3 Height Of Two Points Mode



Step 1: Measure Target A

The icon flashes continuously.
Prompt measurement the Target-A.
Press ⏻ to range the Target-A



Step 2: Measure Target B

The icon flashes continuously.
Prompt measurement the Target-B.
Press ⏻ to range the Target-B

Step 3:Measurement Result

After 1 second, the rangefinder generates a vibration to indicate that the measurement has been completed, and the result is displayed on the screen.

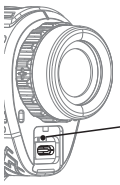
The icon flashes continuously.
Press ⏻ to start a new measurement

(1) *The mode do not supports continuous measurement function.*
(2) *Within 100 (m/yd),Distance and horizontal distance data with decimal point Beyond 100 (m/yd), All data without decimal point.*

09 Battery

This product has a built-in rechargeable lithium battery. When the battery indicator is displayed as one grid, it is low battery, please pay attention to the remaining battery, the battery indicator is displayed as follows:

Full Battery
Low Battery, Please charge the battery !



Battery specifications: built-in 3.7v lithium battery

Power adapter: 5V/0.8A
(accessories without power adapters)

Power Indicator

Red light: charging
Green light: battery is fully charged

Notice:
1. Please use the standard charging cable for charging.
2. When the power is insufficient, please charge it in time.
3. Do not overcharge. The charging time should not exceed 2 hours.
4. After charging, please disconnect the power supply in time.

10 Measurement Considerations

Measurement Targets

The laser rangefinder is suitable for measuring high reflectivity objects (such as highway's Road signs),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.

Factors That Influence Ranging Capability

1) Target reflectivity:

Generally speaking, the higher the reflectivity of the object, the better the ranging ability. for example, for moderate reflectivity object, the measuring range is 1500M, and it can up to 1800M for high reflectivity object, but may be only 600M for low reflectivity one. (It may 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, the ranging ability will decrease.

3) Measuring angle:

The ranging ability would be better if the measured object is vertical with the 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.)