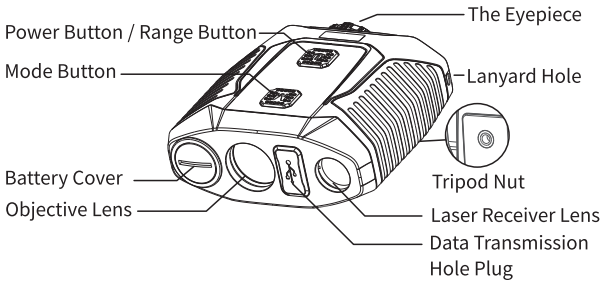
01 Parameters

Distance Range	10~4000m
Measuring Accuracy	±1m
Angle Range	±90°
Angle Accuracy	±1°
Laser Type	905nm (Class 1 laser)
Magnification	7X
Object Lens Size	24 mm
Effective Eyepiece	16 mm
Exit Pupil Diameter	3.4 mm
Exit Pupil Distance	15.5mm
Field Angle	6.6°
Battery	18650 lithium battery (2000mAh)
Weight	223 g (Without battery)
Dimensions	101*99*46 (mm)

02 Accessories

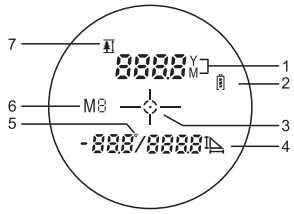
Rangefinder *1 PCS
Cleaning Cloth *1 PCS
Manual *1 PCS
18650 lithium battery *1 PCS
Lanyard *1 PCS
Bag *1 PCS
Box *1 PCS

03 Parts Of Product



04 Screen Display

1. Unit symbol
2. Electric quantity symbol
3. Target center symbol
4. Horizontal distance/ Vertical height icon
5. Angle unit
6. Mode coding
7. Height of two points symbol



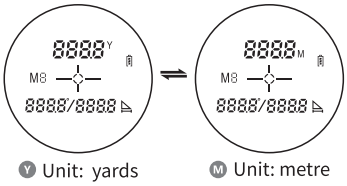
05 Power ON/OFF

Power button

Power ON
Short press the ⏻ button to turn on.

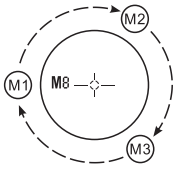
Power OFF
The machine will shut down automatically after 8 seconds if no any operations.

06 Unit / Mode Switch



Ⓨ Unit: yards Ⓜ Unit: metre

Unit Switch(meter/yard)



Mode Switch

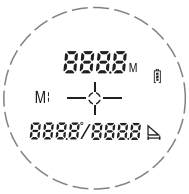
Mode button

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.

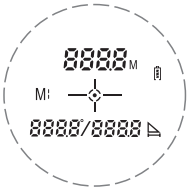
- After power on, the last set mode and measurement unit will be retained.

07 Basic Operation



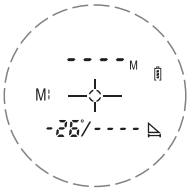
Single measurement

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



Continuous measurement

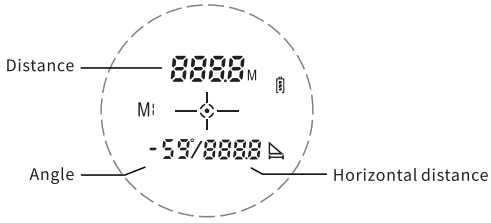
Continuous Measurement:
Press the ⏻ button and keep over 2 seconds, the measured distance value displayed alternately on the screen, and the target sign " • " will be showed on the screen until release the ⏻ button.



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

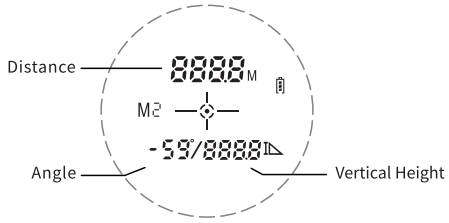


Operation Method:

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.

- This mode supports continuous measurement;
- This mode has no vibration function; there is no decimal point for horizontal height;
- When the "-" sign is displayed in front of the angle, it means that the angle is the depression angle. Angle range ±90°.
- Within 1000 (m/yd),The Distance data with decimal point;
  Beyond 1000 (m/yd), The Distance data without decimal point.

08-2 Vertical Height Mode

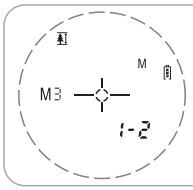


Operation Method:

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.

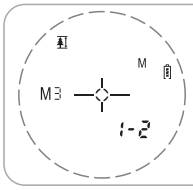
- This mode supports continuous measurement;
- The vertical height does not contain a decimal point; This mode has no vibration function;
- When the "-" sign is displayed in front of the angle, it means that the angle is the depression angle. Angle range ±90°.
  The "-" symbol is displayed in front of the height, indicating that it is lower than the level of the range finder;
- Within 1000 (m/yd),The Distance data with decimal point;
  Beyond 1000 (m/yd), The Distance data without decimal point.

08-3 Height Of Two Points Mode



Step 1: Measure Target A

1-2 The icon flashes continuously.
Prompt measurement the Target-A.
Press ⏻ to range the Target-A



Step 2: Measure Target B

1-2 The icon flashes continuously.
Prompt measurement the Target-B.
Press ⏻ to range the Target-B

Step 3:Measurement Result

After 1 second, the result is displayed on the screen.

1-2 The icon flashes continuously.
Press ⏻ to start a new measurement

(1) The mode do not supports continuous measurement function.

(2) Within 1000 (m/yd),the data with decimal point
Beyond 1000 (m/yd), the data without decimal point.

09 The Battery

Full Battery
Low Battery, Please replace the battery

Replace The Battery:
Replace the battery according to the direction of "+"and"-" poles marked on the lable.

Open the battery cover knob, rotate it counterclockwise, open the battery cover, take out the battery, install the battery according to the positive and negative marks on the battery bin, after installing the battery, rotate the battery cover knob clockwise, close the battery cover, try to rotate it in place to ensure that the battery cover is tightly closed.

Tips:
before installing the battery, please remove the plastic packaging film of the battery.

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.)