Ready

Safety Instructions-Warning

● Do not view the emissions for long periods of time with magnified lenses.
● Do not put the device out of the storage temperature of -20~50°C.
● Avoid direct sunlight to the eyepiece to avoid damaging the eyepiece display/internal components. Put it in a protective case when you are not using it.

Safety Instructions-Disposal

● The equipment contains electrical and/or electronic components and therefore cannot be disposed of in the same way as ordinary household waste. These wastes should be disposed of at community-provided waste collection points.

Safety Instructions-Battery

● This device is Lithium battery that can charged when it displays "▢" （Low battery）, using a USB charging cable. The battery indicator is red when charging and green when fully charged.
● Note: If not used for a long time, please fully charged the battery and store it in a dry environment.
● Put the battery away from the fire, do not throw the battery into the fire, otherwise it may cause explode.

Cleaning and Daily Maintenance

Warranty Card

Model Name	
Invoice Number	
User Information	User Name:
	Address & Tel.
Date of Purchase	
Dealer Information	

This product has one year warranty of defects in materials and defective workmanship from the date of purchase. During the warranty period, there is any defect, we will repair or replace the product according to status of each case states when we receive the return product.

Non-warranty situation:
● Wrong operation or man-made damage
● Maintenance provided by unauthorized person or unit
● Product Serial Number has been obliterated

Just send back the equipment, no accessories (case, strap, batteries, etc.) required.
If repairs are required, please send the device to your local dealer along with the warranty card & purchase invoice.

The lens of our laser rangefinder are multi-coated for highest light transmission. As well as other multi-coated optics, which need to clean the lenses.
1. Removing finger prints, clean with the lens demisting cloths in a circular way.
2. When using the cleaning solution, it needs to be placed on the wipe cloth. Do not directly on the lens.

Introduction

This device is a professional rangefinder, High quality Optics, Voice Broadcast, Flagpole lock and Vibration, Lithium Battery, 2.0 TFT QVGA Screen with touch key can offer you a good experience.
● +/-0.5 yards high accuracy and 6X magnification.
● High quality optics lenses will bring you a brighter clear image.
● 10 modes, Multifunctional can be used for Electricity industry, Hydrographic engineering Survey, Surveying and Mapping Industry, Golf, Outdoor Adventure, Engineering Construction, Hunting.
● Latest innovative functions: 2.0 TFT QVGA Screen with touch key, can easily change different Mode and Unit.
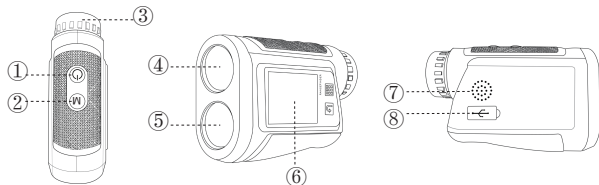
① Power Button (Measure Button)：Short press the power button to start single measurement. In review state, you can press power button scroll up and down
(Same as return key/mode key).
② Mode Button
③ Eyepiece Knob (Adjust knob to target)
④ Eyepiece Lens
⑤ Objective Lens
⑥ Screen
⑦ Speaker
⑧ Battery

Screen Display

① Angle
② Mode
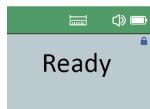③ Speaker
④ Battery
⑤ Touch Key Lock
⑥ Mode Key
⑦ Return Key

Lock Screen or Unlock Screen

Long prcess 🔠 & ⊊ on screen to change lock status.

● Unlock 🔓: All keys available.

Technical Specifications

Angle Ranging Scope	-90° to 90°
Laser Safety	Class1, Laser Wavelength 905nm
Power Supply	Rechargeable Lithium Battery
Magnification	6X
Field Of View	6.5°
Objective Lens Diameter	25MM
Eyepiece Lens Diameter	15MM
Ranging Error	±0.5M/Y (Ranging scope<700M/Y)
Focusing Mode	Manual Focusing Eyepiece
LCD Display	Transmission LCD Display
Exit Pupil Diameter	3.8MM
Lens Quality	Multi-Coated
Ranging Method	Semiconductor Laser Ranging

Angle Calibration

The device need to be calibrated when the angle is inaccurate.
Operating on a horizontal platform or a tripod which horizontal angle has been adjusted.

① ② ③ ④

⑤ ⑥ ⑦
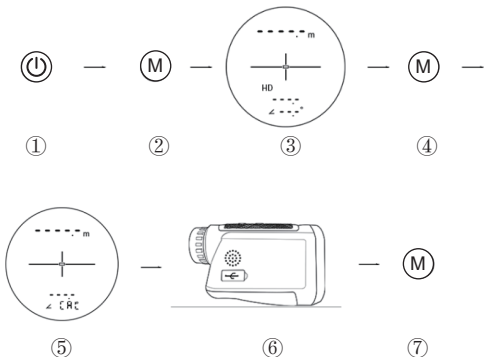
① Power on to start

② HD Mode

③ Long press mode button, LCD shows "CAL"

④ Long press mode button again to angle calibrate

⑤ Release mode button to finish calibrate

⑥ Press power button to measure

Device angle is 0°0 under horizontal status after finish calibrate

⑦ Release power button to finish calibrate

Device angle is 0°0 under horizontal status after finish calibrate
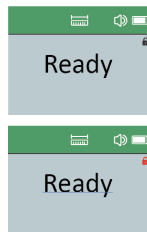
● Auto lock 🔓 : This function is prevent users false triggering touch keys.The screen will be under locked statue when held vertically, otherwise, it will be unlocked.
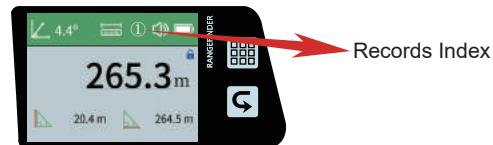

● Lock 🔒 : The keys on the screen are locked.

## Speaker on or off

Press mode key 4s, speaker on or off.

Press mode key 4s
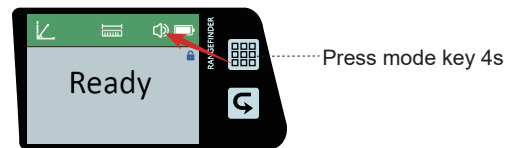
Record

Long press the ↻ on the screen to access to the records. You will find up to 20 measurements data and scroll up and down by ⌗ / ↻ . All record can be deleted by pressing the ⌗ and ↻ at the same time. Long press ↻ again to exit the record.
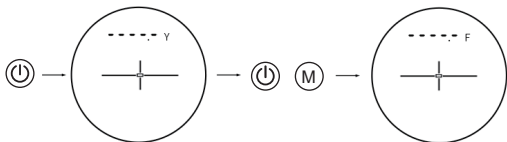

Records Index

Slope Distance

① Distance
② Distance Unit
③ Target Indicator
④ Mode Data
⑤ Angle
⑥ Mode
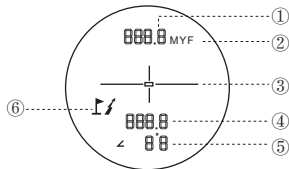
Switch Unit Button

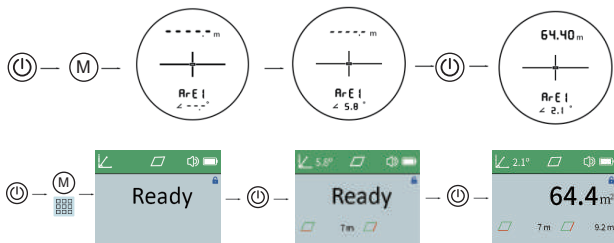Press Ⓞ & Ⓜ to switch the unit Y (Yard), M (Meter), F (Foot)

Measurement Mode

This device is multifunctional, can measure slant distance, slope, vertical distance, horizontal distance, speed, area, volume,etc. To meet different request. It has 10 modes, can apply in different situation.
Power button Ⓞ is measure button, Mode button Ⓜ and Mode key ▦ can change mode as request.
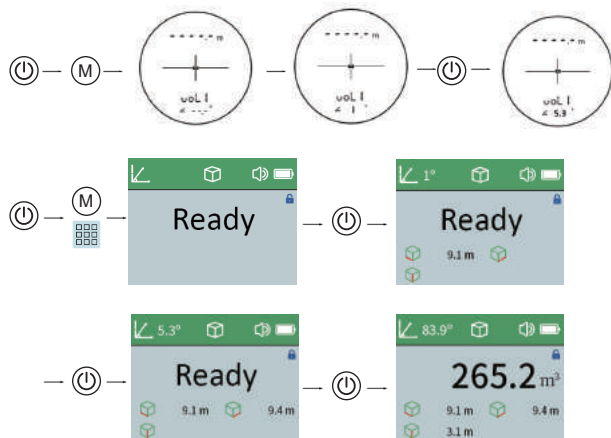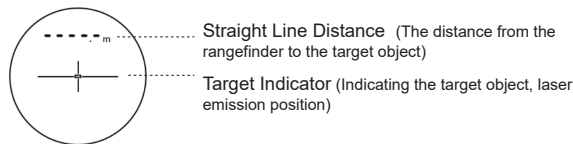
Memory Function

It has the function of model memory. Every time you turn it on, the device always goes back to the last mode.

Mode 10. Volume Measurement Mode

In Volume Measurement Mode, device can calculate the volume according to measure length, width & height.

① Press ⏻ to start
② Press Ⓜ / ▦ to Volume mode
③ press ⏻ to measure the length of the volume
④ press ⏻ again to measure the width of the volume
⑤ press ⏻ again to measure the height of the volume

Volume Measurement Result

Target Indicator (Indicating the target object, laser emission position)

Angle

265.2 m³ .... Volume Measurement Result

Length .... 9.1 m
Width .... 9.4 m
Height .... 3.1 m

Mode 1. Straight Line Distance Mode

Device measures the straight distance from rangefinder to target. The rangefinder enables continuous measurement. Long press the Power Button ⏻ to enter continuous measurement. Device will continuously emit lasers and constantly update the measurement results on the display. Speaker will broadcast the last distance.
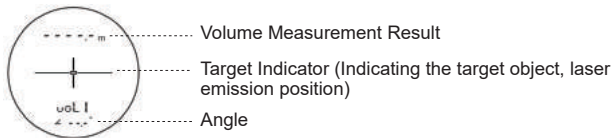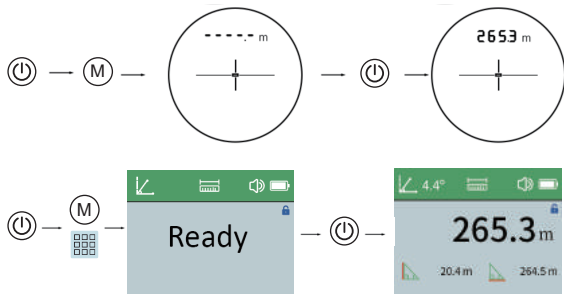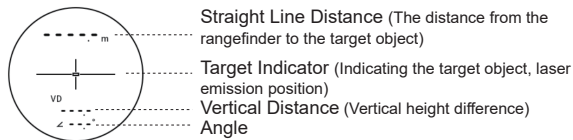
① Press ⏻ to start
② Press Ⓜ / ▦ to Straight Line Distance Mode
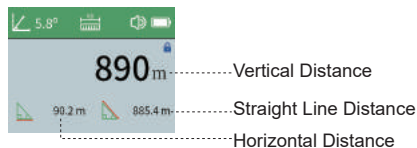③ Press ⏻ to measure

Straight Line Distance (The distance from the rangefinder to the target object)

Target Indicator (Indicating the target object, laser emission position)

265.3 m .... Straight line Distance

20.4 m .... Horizontal Distance
264.5 m .... Vertical Distance

Mode 2. VD Mode-Vertical Distance Mode

① Press ⏻ to start
② Press Ⓜ / ▦ to VD mode
③ Press ⏻ to measure

Straight Line Distance (The distance from the rangefinder to the target object)

Target Indicator (Indicating the target object, laser emission position)
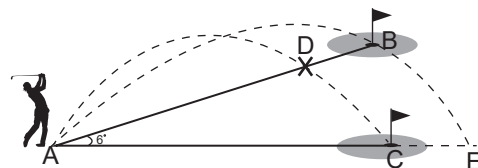
Vertical Distance (Vertical height difference)

Angle

∠ 5.8°

890 m ······ Vertical Distance

90.2 m   885.4 m ········ Straight Line Distance

·········· Horizontal Distance

Mode 9. Area Measurement Mode

In Area Measurement Mode, device can calculate the area according to measure length and width.

① Press ⏻ to start
② Press Ⓜ / ▦ to Area mode
③ press ⏻ to measure length of the area
④ press ⏻ again to measure with of the area
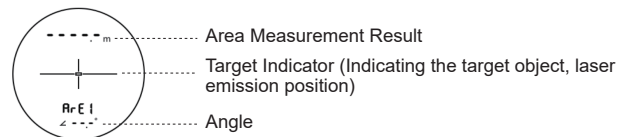
Area Measurement Result

Target Indicator (Indicating the target object, laser emission position)

Angle

∠ 2.1°

64.4 m² ······ Area Measurement Result

7 m   9.2 m ········ Width

·········· Length

Straight Line Distance (The distance from the rangefinder to the target object)

Target Indicator (Indicating the target object, laser emission position)

Recommended Hitting Distance

Angle

∠ 2.9°

134.6 m ·······Straight line Distance

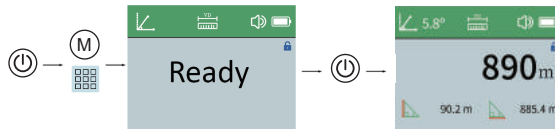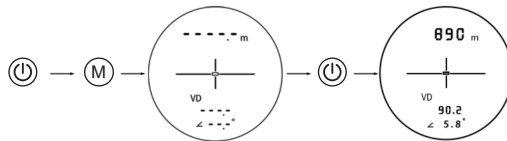H 7.0 m   SA 146.7 m ·······Play Distance

·······Vertical Distance
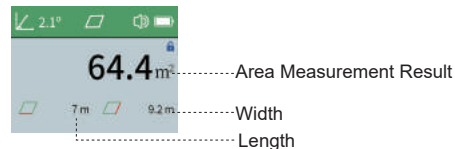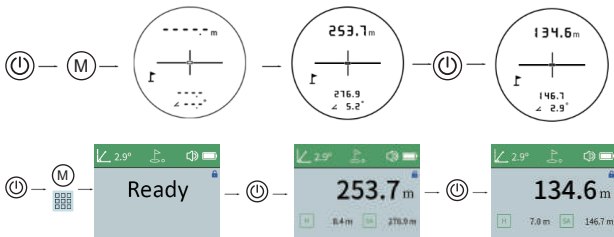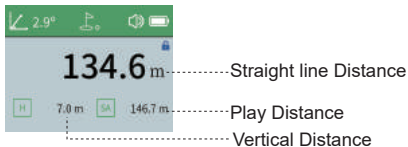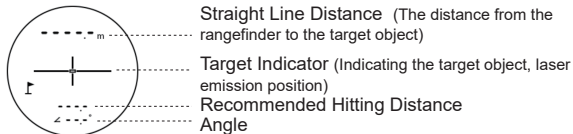
Working Principle- Example:

AC distance is 160 yards. AB distance is also 160 yards, although it is on a slope with a 6% grade.

If golfer were to play B hole as 160 yards, the ball would fall to C via D.

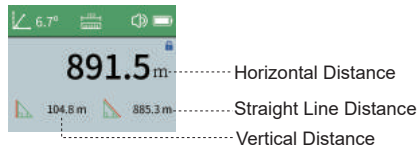Due to the slope, it should be played as a AE 168 yard shot.
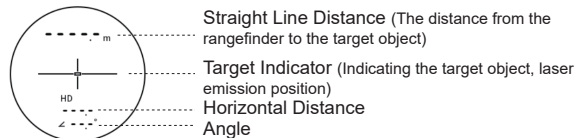
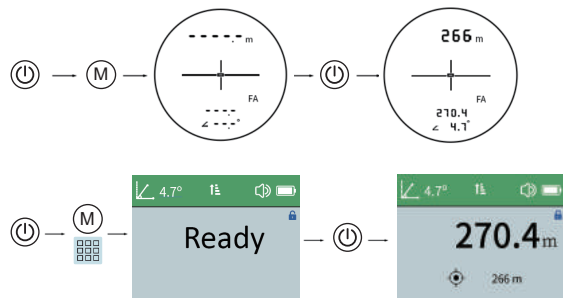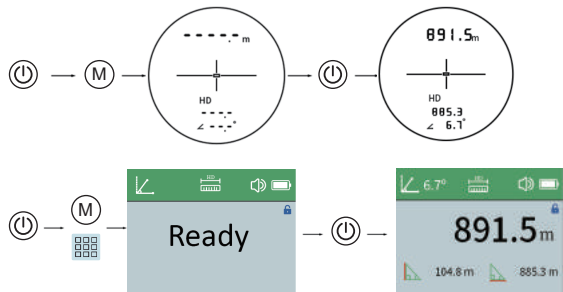AE 168 yard is play as distance based on slope.

Mode 3. HD Mode-Horizontal Distance Mode

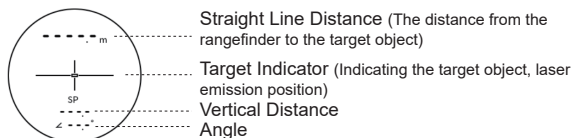HD mode can measure horizontal distance from rangefinder to target.

① Press (⏻) to start

② Press (M) / ▦ to HD mode

③ Press (⏻) to measure

Straight Line Distance (The distance from the rangefinder to the target object)

Target Indicator (Indicating the target object, laser emission position)

Horizontal Distance

Angle

∠ 6.7°

891.5 m ·······Horizontal Distance

104.8 m   885.3 m ·······Straight Line Distance

·······Vertical Distance

Mode 4. SP Mode-Speed Measurement Mode

① Press ⓪ to start

② Press Ⓜ / ▦ to Speed mode

③ Aim target and press ⓪ , device start scan mode, figure out measure result in 2s

Straight Line Distance (The distance from the rangefinder to the target object)

Target Indicator (Indicating the target object, laser emission position)

Vertical Distance

Angle

Speed

Mode 8. Golf Distance Compensation Mode

① Press ⓪ the to start.

② Press Ⓜ / ▦ to training mode. ⬐

③ Long press the Power button to enter the scanning mode (Aim at the slope/background behind the flagpole).

④ Move Target Indicator from background to flagpole slowly.

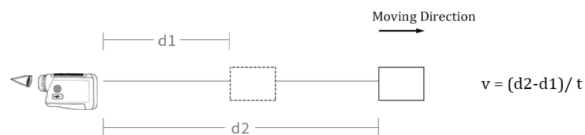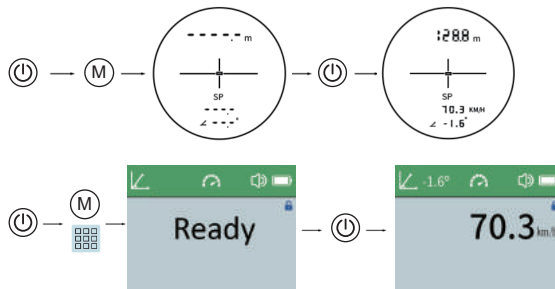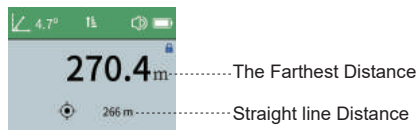⑤ The flagpole is locked successfully, the rangefinder vibrates and displays the measurement data.
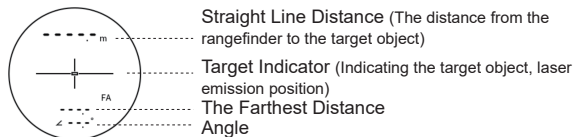
• **When the slope is positive, play distance should be bigger than the Straight-Line Distance.**

• **When the slope is negative, play distance should be less than the Straight-Line Distance.**

A1
A2 (The closest target)
A3
A4
A5 (The farthest target)
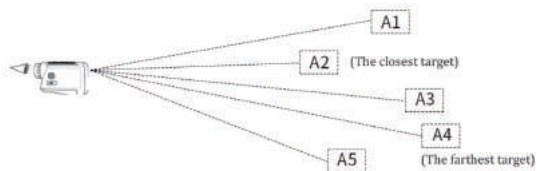
Mode 7.
FA Mode-Farthest Distance Measurement Mode

Tip: Long press the power button to enter continuous measurement, the slope and distance will change and the FA distance is the farthest target.

① Press ⏻ to start
② Press Ⓜ / ▦ to FA mode
③ Long Press ⏻ to measure

Straight Line Distance (The distance from the rangefinder to the target object)

Target Indicator (Indicating the target object, laser emission position)

The Farthest Distance

Angle

∠ 4.7°

270.4 m .... The Farthest Distance
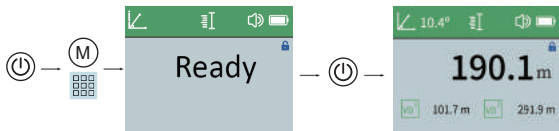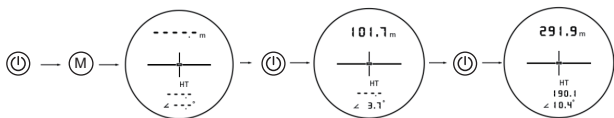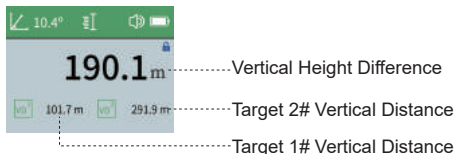
266 m .... Straight line Distance

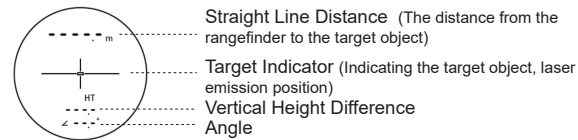Speed mode can measure the speed of the target object moving in radial motion. The speed of the target object moving in parallel cannot be measured because the distance from rangefinder to target no change.
Speed unit is km/h & mile/h.

Mode 5.
HT Mode-Two Points Height Measurement Mode

HT mode can measure the vertical height difference between two targets.

Moving Direction

d1

d2

$v = (d2-d1)/t$

① Press ⏻ to start

② Press Ⓜ / ▦ to HT mode

③ Press ⏻ to measure target 1 & target 2

Tip: Press Power button to measure target 1 and target 2, then LCD and screen will display as below:

Straight Line Distance (The distance from the rangefinder to the target object)

Target Indicator (Indicating the target object, laser emission position)

Vertical Height Difference

Angle

∠ 10.4° ▤ ◁》▭

190.1m ····· Vertical Height Difference

v0° 101.7 m   v0° 291.9 m ····· Target 2# Vertical Distance

····· Target 1# Vertical Distance

⏻ — Ⓜ — [target] → ⏻ [101.7m] → ⏻ [291.9m]

⏻ — Ⓜ/▦ — Ready — ⏻ — ∠ 10.4° ▤ ◁》▭ **190.1m** v0° 101.7 m v0° 291.9 m

— 11 —

Mode 6.
CL Mode-Closest Distance Measurement Mode

Tip: Long press the ⏻ to enter continuous measurement, the slope and distance will change and the CL distance is the closest target.

① Press ⏻ to start

② Press Ⓜ / ▦ to CL mode

③ Long Press ⏻ to measure

Straight Line Distance (The distance from the rangefinder to the target object)

Target Indicator (Indicating the target object, laser emission position)

The Closest Distance

Angle

∠ 3.1° ▥ ◁》▭

79.4m ····· The Closest Distance

◉ 271.2 m ····· Straight line Distance

⏻ — Ⓜ — [target] → ⏻ [271.2m CL]

⏻ — Ⓜ/▦ — Ready — ⏻ — ∠ 3.1° ▥ ◁》▭ **79.4m** ◉ 271.2 m

— 12 —