

# MILESEEY®

## PF3S

LASER RANGEFINDER  
user's manual



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Thank you for purchasing MILESEEY PF3S Laser Rangefinder. Before using the product, please read this manual thoroughly to ensure proper use.

- **Product Overview**
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## Product Overview

### PF3S Rangefinder Features:

1. PF3S series rangefinder adopts TOF (Optical Time of Flight) technology to realize golf ballistic compensation.
2. Slope on/off switch
3. Flag-lock
4. Vibration support
5. Vertical Height(between 2 Points)
6. LCD Display
7. Screw hole for tripod
8. Compact and light, comfortable to hold, and easy to carry.

## Safety Instructions

### ① Warning

- Do not stare into the laser beam.
- Class 1 Laser product.  $P < 1 \text{ mW} @ 905 \text{ nm}$ .
- Do not aim the device to the sun, it will cause permanent damage to inner to the inner components.
- Keep the eyepiece away from direct sunlight.
- Do not put the device out of the storage temperature of  $-10 \sim 45^{\circ}\text{C}$ .

### ② Disposal

Everyone is responsible for environmental protection.

It's prohibited to dispose of used batteries together with household waste, please collect used batteries to the designated refuse collection center. This product must not be recycled with household waste. Dispose of the product appropriately in accordance with the national regulations in your country.

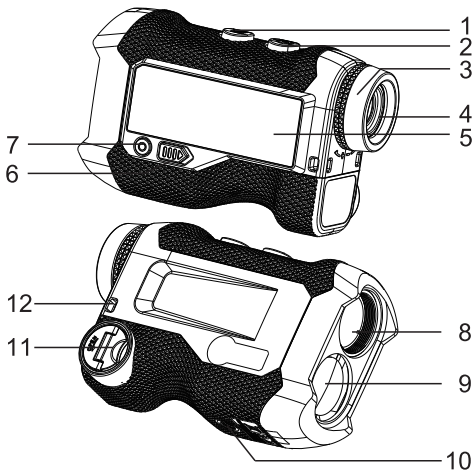
### ③ Scope of Responsibility

MILESEEY will not be responsible for any loss if any use of accessories from other manufacturers without approval from MILESEEY.

## Maintenance

1. Please do not touch the lens of this product with your fingers in order to protect lens coating.
2. When the lens contaminated, please wipe gently with clean cloth.
3. When carrying or using this product, please do not put other heavy objects on top or crash/ drop this product.
4. Keep this product away from hot or corrosive environments.
5. Please store this product in a dry, cool and well-ventilated place.
6. It is best to avoid using this product in rainy and foggy weather as the laser beam path would be influenced, which lead to inaccurate measurement.
7. This product has been precisely adjusted by special instruments, please do not disassemble it randomly. If damaged, please send it to a professional department for help.

## Laser Rangefinder Appearance



1. Mode / Unit switch button;

2. Power/ Measurement button

\*Press short to activate single measurement

\*Press and hold to activate continuous measurement and release to stop.

3. Eyepiece knob

4. Eyepiece

5. External display

6. Angle switch

\*Angle-related functions are not available while the angle switch turned off

7. External display switch button

8. Objective Lens/Laser Emitter

9. Laser receiving lens

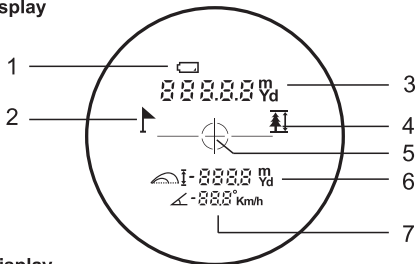
10. 1/4 "-20 Tripod Mount

11. Battery compartment

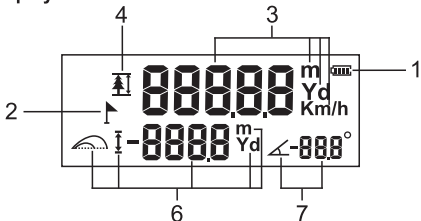
12. Strap eyelet

## Icons on LCD Display

### Internal display



### External display




Except for the target mark on internal LCD display, the icons are the same displayed on the two screens.

1. Low Battery Indicator
2. Golf Flag Scan Symbol
3. From Left To Right: Measuring Distance Display, Measuring Unit
4. Two-Point Height Measuring Mode
5. Target Mark
6. From left to right: Golf Trajectory Compensation Icon/ Vertical Height Icon, Golf Trajectory Compensation Distance/ Vertical Height, Unit
7. From Left To Right: Angle Icon, Angle Display, Speed Measurement Unit

## Battery Installation

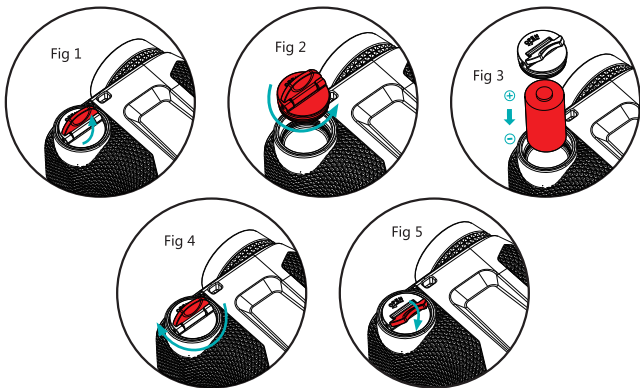
Please use 1x CR2 battery to power on the device.

When  (Low battery) is displayed, please replace the battery in time, otherwise the distance error will increase; Please take out the battery if not used for a long time.

**Step 1:** As shown in (Photo 1) and (Photo 2), Pull up the rotary handle on battery cover and rotate it counter clockwise until the battery cover is opened.

**Step 2:** Install 1xCR2 battery as shown in (photo 3), make sure the polarities of the battery is not reversed.

**Step 3:** As shown in (Photo 4) and (Photo 5), the battery assembly is completed. Rotate it clockwise to tighten the battery cover, and then press the rotary handle.

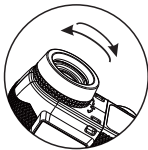





## Operation and Settings

### Eyepiece

- The rangefinder is designed with an adjustable eyepiece (**dioptre**).
- By adjusting the focusing dioptre within a -5 to +5 range, people with myopia and hyperopia can use laser rangefinder without glasses.
- Looking through the eyepiece, Adjust the eyepiece knob clockwise/ counterclockwise to focus on the target.




### Power ON/OFF

- Press the  to power ON.
- Automatically switch off after 16s of inactivity.

### External Display

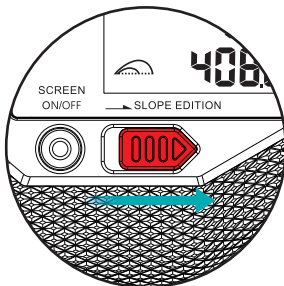
- Press the External display switch to Turn ON/OFF the display.

### Unit Change

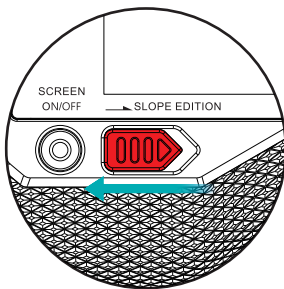
Press and hold  to change the unit (m or Yd)

### Angle Switch

- When the angle switches turned ON, all functions are available.



- When the angle switches Off, only Distance measurement is available.



## Measuring Modes

**Please adjust the eyepiece to focus on the target clearly before measuring.**

**※Note:**

1. In the course of measurement, if the target reflection is weak or beyond the measuring range, it will display as “---”
2. The measurement range will be affected by materials of the target, inclined angle of the target surface, visibility of the weather etc.



**In general, the measurement range will be longer when:**

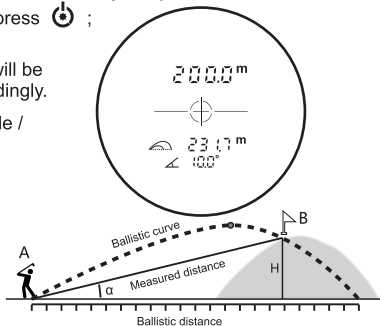
- The target surface is smooth and bright with larger area
- The beam is perpendicular to the target surface
- The weather is cloudy without fog

**Short press (M) to switch to 5 measuring modes as below:**

### A. Golf Trajectory Mode



Data displayed on the lens: Distance + Trajectory + Angle;

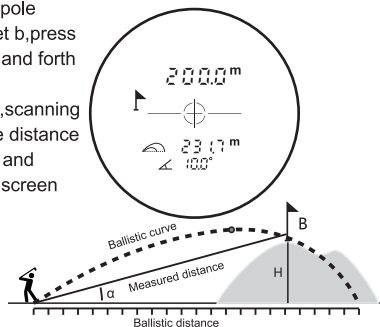
- Short press **(M)** to switch to  Golf Trajectory Mode;
- Aiming at target B and short press  ;
- Distance between A and B, trajectory distance and angle will be displayed on the screen accordingly.
- Trajectory compensation angle / slope range:  $-20^{\circ} < \alpha < 20^{\circ}$



### B. Golf Trajectory Scanning Mode

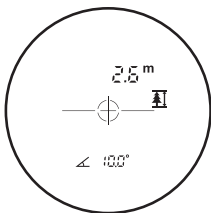
Flagpole Scanning Mode(Close-range priority)

Short press **(M)** to active  flagpole scanning mode.aiming at target b,press and hold ,scan slowly back and forth on both sides of the measured target,when device is vibrating,scanning measurement is completed,the distance from A to B,the slope distance and angle"  $\alpha$  "will be shown on the screen accordingly.

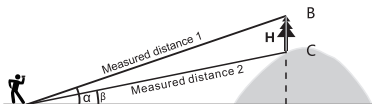


## C. Vertical Height (between two points) Measuring Mode

- Short press **(M)** to switch to **(A)** two-point height measuring mode;
- Target point B and press **(B)**.  
The first distance would be displayed;
- Target point C and press **(B)**.  
The second distance would be displayed.
- The height between the two points would be calculated automatically and then displayed on the screen.



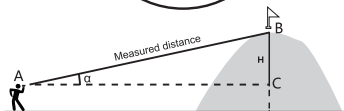
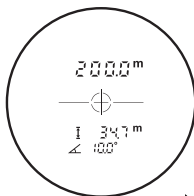
※ **Note:** Only vertical height can be measured.



## D. Distance, Height, Angle measurement

Data displayed on the lens from top to bottom: Distance + Height + Angle

- Short press **(M)** to switch to Single distance measurement.
- Aiming at target B and press **(B)**, measured distance between A and B, height and angle between B and C will be displayed accordingly.

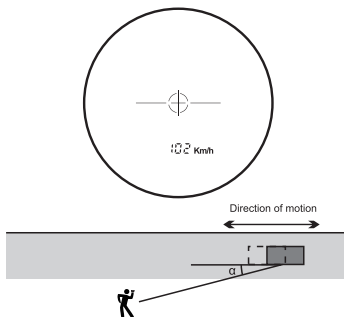


## E. Speed Measurement Mode

" $\alpha$ " must be less than  $10^\circ$ . The smaller the angle, the higher the accuracy.

- Short press **M** . Move the target mark along with the object being measured. The speed of the movement can be measured accordingly.

※ **Note:** Speed measurement range: 18~300km/h



## Product Specification

Model	PF3S
Measuring Range	800m
Measuring Unit	Meter/ Yard
Distance Accuracy	±0.5m
Measuring Angle Range	-45°~45°
Trajectory Compensation Angle Range	-20°~20°
Angle Accuracy	±1°
Wavelength	905nm
Eye safety	FDA (CFR 21)
Field of View	7°
Magnification	6X
Objective Lens Diameter	22mm
Eyepiece Lens Diameter	16mm
Exit Pupil Diameter	3.7mm
Diopter	±5D
Diopter Adjustment	Eyepiece adjustment
Operating temperature	0° C ~+40° C
Speed Measurement range	18~300km/h
Power Source	3V, 1 X CR2
Mount Size	1/4"-20
Dimension	122 x 75 x 42mm
Weight(W/o battery)	223g

## Notice

1. In order to protect the coating of the lens, do not touch lens with your fingers.
2. Laser rangefinder has been precisely calibrated by instruments, please send back to dealer for repairing instead of disassemble by yourself.
3. When the lens is contaminated, please wipe gently with clean cloth, do not use tough objects to wipe.
4. Avoid collision or heavy load when carry or use, especially keep away from baking or corrosion.
5. Keep the product away from moisture during storage. Please keep it in a dry, cool and well ventilated place to avoid direct sunlight, dust and temperature mutation.
6. Rain and fog will affect the laser ray-path, which may worsen the measurement accuracy. It also may cause error under very bad weather condition.