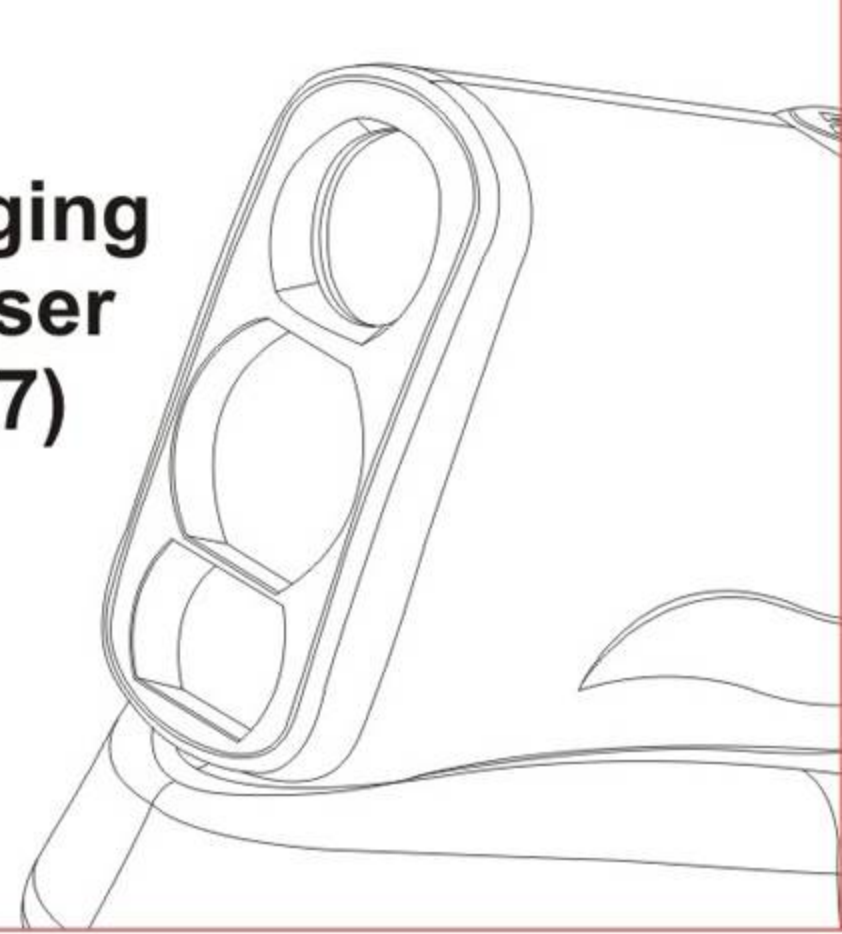


Инструкция по  
эксплуатации  
дальномера  
Laser Works PRO X7-600



# Wireless Charging Rangefinder User Manual(PRO X7)



## Wireless Charging Rangefinder User Manual(PRO X7)

③ User's manual

1-17



## Wireless Charging Rangefinder User Manual(PRO X7)

**Features:**  
Objective Lens diameter:21mm  
Magnification Power: 6X  
Field Of View:7.2°  
Eye relief:16mm  
Resolution:  
+/- 0.5M when distance <200m;  
+/-1M when distance >200m;

**Range:**  
5-600M/800M  
5-1200M/1500M  
Speed: 0-300KM/H  
Tolerance: 3KM

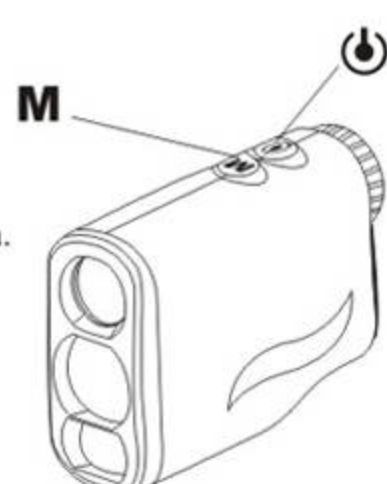
**Battery:** Lithium Polymer  
Wireless Charging  
Waterproof: IPX 4

**Size:**  
Length:106mm (include objective lens)  
97mm (not include objective lens)  
Width: 35mm  
Height: 73mm (Up)  
68mm (Bottom)  
Weight: 149g (Not include charging base)

1

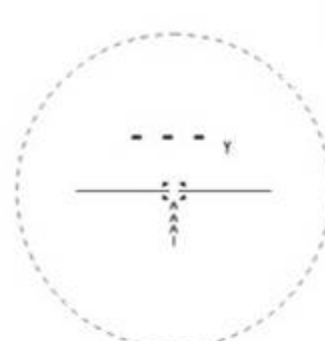
### 1. Power On

Hold **M** power button for about 1 second. The display screen is default range mode. For thereafter usage, the display screen is last time usage screen.



### 2. Changing Units of Measurement

Hold **M** Button for 3 seconds to toggle meters (M) or yards (Y).

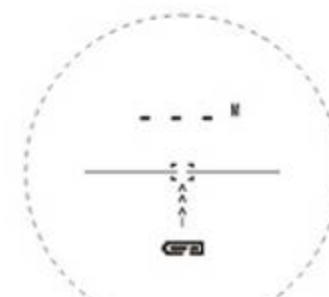


When in mode of "Ranging", "Scan", "Pinseeker", "Golf distance correction", "Fog", "Horizontal distance measure" "Vertical height" and "Speed", long press **M** key to change unit between Metric and Yard. In Speed Mode, Unit has to be changed independently.

2

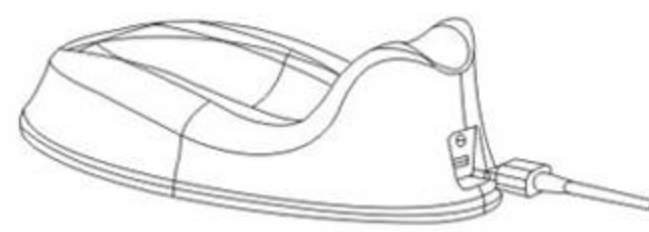
### 3. Low power warning

When battery power is too low, the low battery icon will appear all the time to remind user to change battery.



### 4. Wireless Charging

1)1. Connect USB cable to the wireless charging base and the power source (USB power adapter/ Power Bank/PC/Vehicle ect. USB port connector all ok ),then power indicator starts flashing.



2)Put the rangefinder in the charging base, the indicator light stay on which means it's charging. When it's full charged, the indicator light will put out automatically.

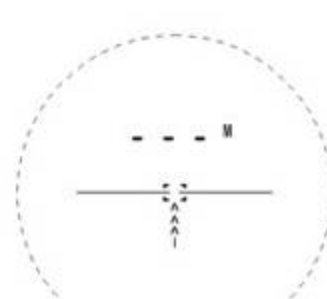


3

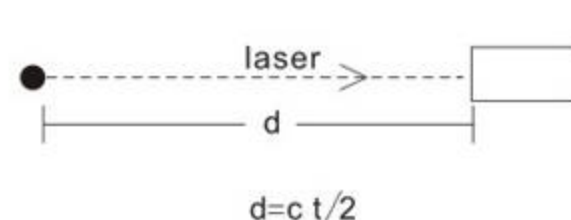
### 5. Changing Modes

Hold **M** Button to choose between "Ranging", "Scan", "Pinseeker", "Golf distance correction", "Fog", "Horizontal distance measure", "Vertical height" and "Speed" Mode circularly.

#### 5-1 Ranging mode



Principle:



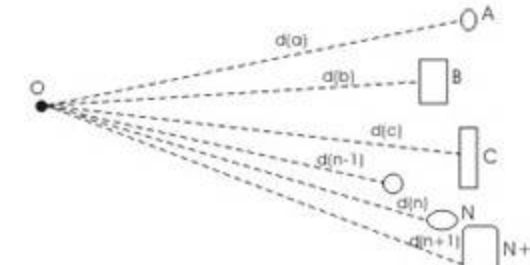
4

Press **M** key to start ranging.



#### 5-2 Scan Mode

Principle:



In scan mode, the laser will emit a continuous, each distance to be measured will be displayed one by one.

When Power on, in the ranging mode, press and hold **M** key to set the Scan mode.

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Automatically exit after 20 seconds continuous ranging.

#### 5-3 Pinseeker Mode

Principle:



In the Pinseeker Scan mode, the point D may be isolated from a number of points in the background out and keep only the distance d1 to the point. So as to achieve the automatic locking flagpole distance. The other goals were shielded behind the flagpole.

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#### Pinseeker



When the flagpole Scan mode screen appears, press and hold **M** key to start the pinseeker scan function, the flag symbol in the screen box around the icon flashes.

The ranging machine aiming point in the measured scan back and forth on both sides of the flagpole, the flagpole of the measured data to the data will be retained, and the screen banner around the box is no longer flashing, which means that the flagpole data is locked.

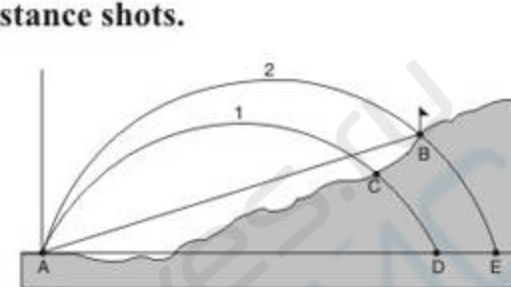


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#### 5-4 Golf Distance Correction ( Golf Slope Compensated Distance)

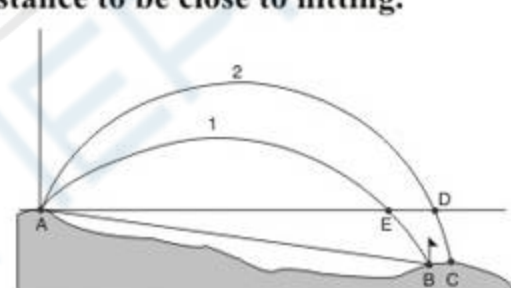
Principle:  
The measured distance values AB, the slope value is substituted into the equation in golf ball flight. Calculate the recommended distance.

The slope is positive, long distance shots.



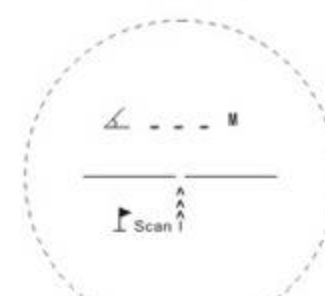
1: Uncorrected parabola batting  
2: The actual distance the ball parabola  
Point B is the pole position

The slope is negative, the distance to be close to hitting.

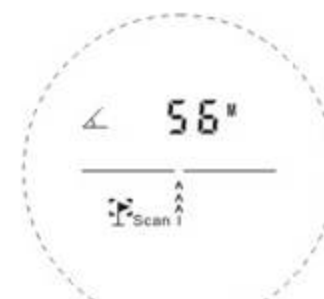


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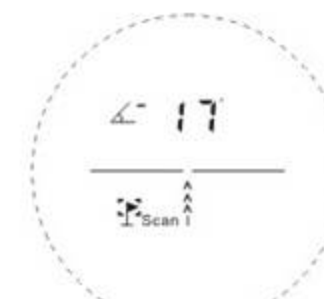
Press and release **M** button to set Golf Distance Correction mode.



After the measured distance values and flagpole slope value, the trajectory can be calculated. Distance and slope value turns the display.



Angle compensated distance

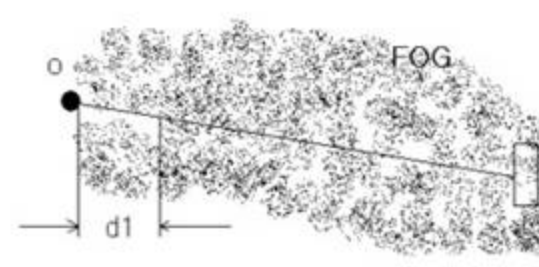


Angle

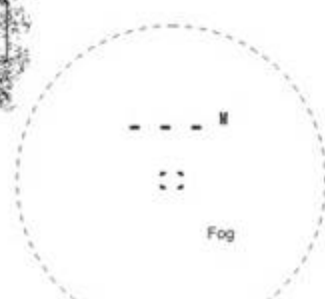
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#### 5-5 Fog Mode

Principle:



Press and release **M** button to set Fog Mode



Short Press **M** to start Ranging. Fog Mode will solve the interference caused by foggy.

Note: 1. In Fog Mode, effective distance should be over 25m  
2. The device can only be used outside

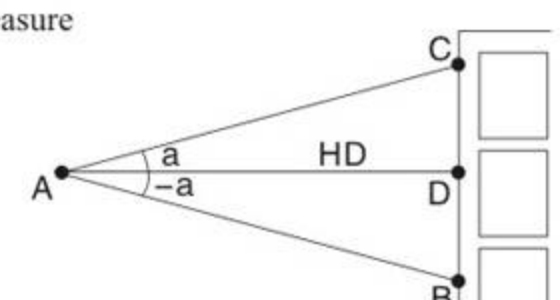


Fog Mode

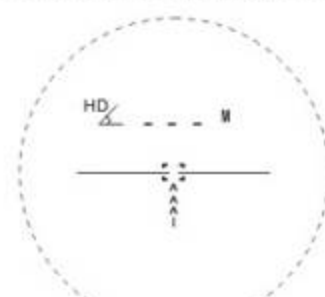
10

#### 5-6 Horizontal distance measure

Principle:

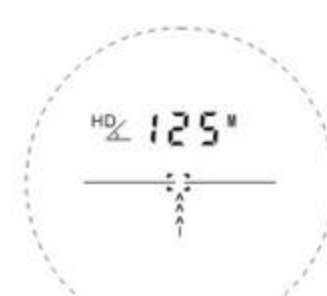


Measure distance: AC or AB  
Horizontal distance: AD  
Press and release **M** Button to set the Horizontal distance Mode.

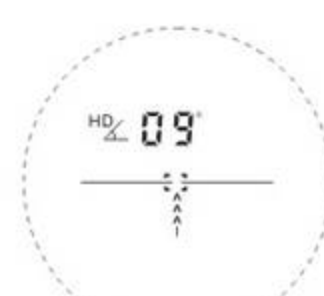


Short press power key **M** to measure distance and angle, after calculation, horizontal distance and angle will display alternatively.

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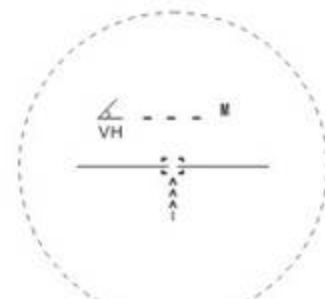


Horizontal distance



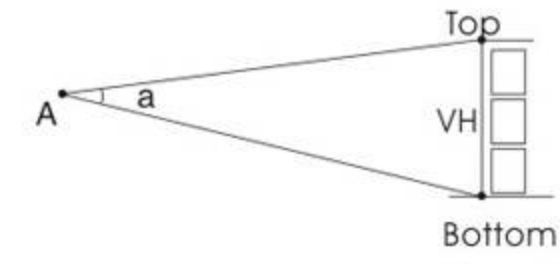
Angle

#### 5-7 Vertical height measure mode



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Principle:



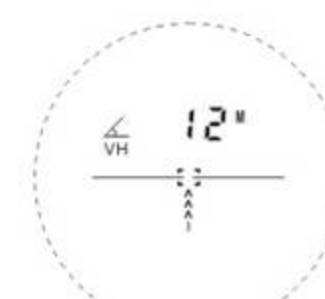
Measuring distance between two points (Bottom and Top) in the vertical direction, and the angle (a) between the two points, to calculate the vertical height between the two VH. The aiming point is aligned at the bottom of the measured object, hold down the **M** key. Aim the top of the target, press and hold power key **M** "Bottom" & "Scan" will show up in the screen, the rangefinder will start to measure to the bottom. When the distance to the bottom is measured, the screen will show "Up" & "Scan", then start to look for the top. Then distance to top position will be continuously displayed in the screen.



Bottom side



Top distance

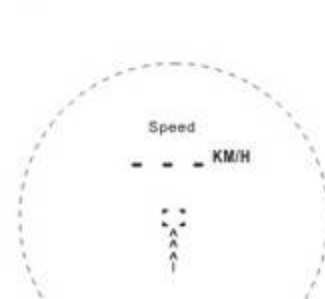


Vertical Height

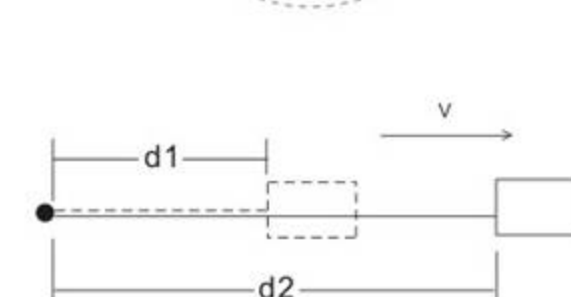
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#### 5-8 Speed Mode

Press and release **M** button to set the Speed Mode

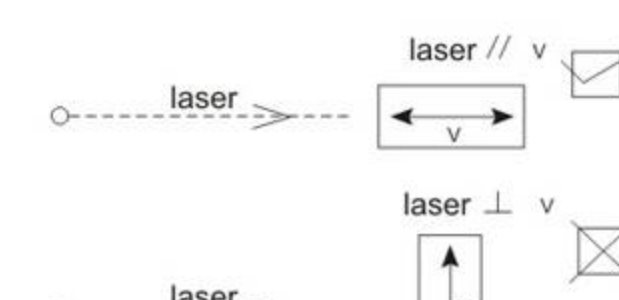


Principle:

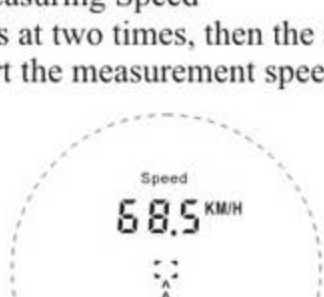


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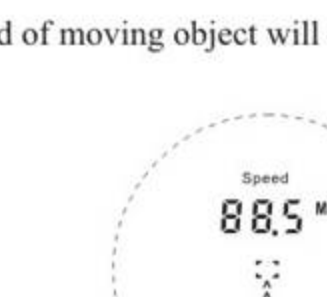
Method:



Hold **M** To switch the Unit KM/H and M/H  
Press **M** to start measuring Speed  
Aim moving targets at two times, then the speed of moving object will display.  
Press **M** key to start the measurement speed.



KM/H



M/H

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#### Measure Targets

- 1.High reflection targets (Highway guidpost )
  - 2.Medium reflection target (Building wall)
  - 3.General reflection target ( Land/Wood )
  - 4.Low reflection target ( Golf flagpole )
- Different targets influence the performance of measurement. Higher reflection will measure longer distance, vice versa.

The ranging distance based on below conditions:

- 1.Medium reflection target: like wall of a building
- 2.Surface of the reflection target is vertical with the laser emission direction
- 3.Measure in a clear weather is the best, but not direct to the sunlight
- 4.Low reflection target's area not less than 1m\*1m

Note: Measure result is different according to different reflection targets, we will not guarantee the usage under below conditions:

- 1.Measure to the sky or non-target
- 2.Heavily rainy/snow/fog/haze etc. Weather condition
- 3.Too small of the reflection target ( like wire cable), or it's difficult to measure,like water and clear glass.

Note: This rangefinder is a precision optical products, so below situations might cause damage to the device.

- 1.Put the product outdoor for a long time, high temperature >50°C, Low temperature <10°C
- 2.Put the product into water
- 3.External strong power damage ( like dropping to the floor )
- 4.Dismantle manually/personally, not by our company

Damage caused by above reasons will not be covered by warranty.