CIGMAN

User Manual

Laser Rangefinder

Model: CT-3000

Please read these instructions before operating the product.

RoHS MADE IN CHINA

Contact us: **support@cigman.com**

Please read this manual carefully before using this device in order to avoid potential personal injury or product damage. Keep this manual in a easy-to-take place for future reference.

Precautions for Safe Use

1) Do not stare at the laser beam directly when you use the product.

2) Do not aim at the laser hole or stare at the optical system while pressing the power "◯" button to avoid injuring your eyes.

Product standard accessories

Rangefinder×1

Type-C Charging Cable ×1

User Manual×1

Carrying Bag ×1

Cleaning Cloth ×1

Hand Rope ×1

Carabiner ×1

Parameters

Laser type	905nm
Measuring range of distance	Please reference the specific models
Measuring range of angle	±90°
Magnification	6X
Eyepiece diameter	16mm
Objective diameter	25mm
Range measurement precision	±(1.0m+D×0.2%)
Resolution	0.1M
Automatic shutdown time	12s
Angle measurement precision	About ±1°
Net weight	About 135g
Dimensions	97.2*65.5*35.4mm
Operating temperatures	-10℃-40℃
Battery	Usb to type-c

The measuring range of this device is defined as below:

1) The object was measured at least have moderate reflectivity, like wall of building.

2) The surface of target reflection is perpendicular to the laser emission direction.

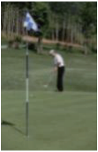
3) The weather is fine but not under direct sunlight.

4) The area of the reflector is not less than $2m*2m=4m^2$

Measurement Target

Guide Board

Building



Golf flagpole

Trees

The rangefinder is suit for measuring high reflectivity target (such as guide board), medium reflectivity target (such as building walls) and low reflectivity target (such as trees or golf flagpole). The measuring range reduced accordingly when the reflectivity decrease to a certain extent.

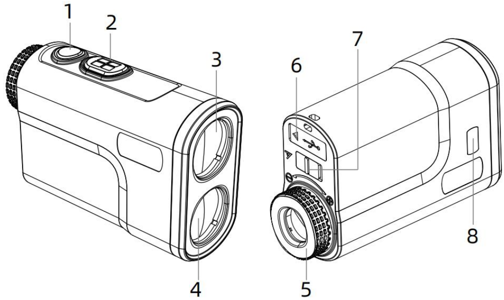
Factors affecting measuring range, speed, and accuracy:

1. The reflectance of measuring target: Under normal conditions, the reflectance is higher, the ranging ability and speed of measuring response are higher. For example, the target with high reflectance can be measured at 1500 meters, but target with medium reflectance can be measured at about 1000 meters, target with low reflectance may be measured at only 700 meters. For diffuse reflection target, such as water, it may not be measured.
2. Target's shape: The ranging ability and speed of measuring response will be reduced accordingly when the reflector area is too small or uneven, such as trees or flagpoles.
3. The angle of measuring: The measuring capability is good when the laser angle is illuminated vertically on the reflecting surface of the measuring object. Otherwise, the measuring capability will be reduced. It is may not be guaranteed to achieve the measuring capability in this anual when using this product at extreme measurement angles.

4. Measuring environment: the measuring capability will be reduced under strong sunshine, the concentration of water vapor and suspended particulate matter in the air. Such as rain, fog, snow and haze weather.

Remark: For golf applications, this rangefinder features a slope correction mode, allowing accurate measurements of small flagpoles in complex backgrounds. The effective measurement range for golf flagpoles is typically 5—250 yards.

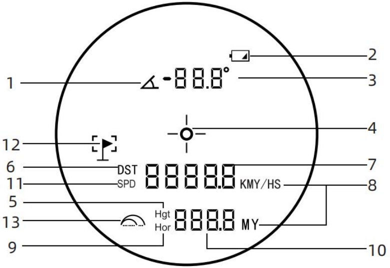
Product Parts Description



1	Power on/Measure	2	Mode/unit switch
3	Objective/Laser emission	4	Laser receiving mirror
5	Eyepiece focusing knob	6	Type-C Charging port
7	Angle switch	8	Angle switch indicator

Note:
Angle switch on (black), open the Angle, the indicator is dark
Angle switch off (green), close Angle, indicator light

LCD Display Instructions



1. " ∡ " Angle mark, displayed in the angle mode.
2. " ▮◢ " Battery Level Indicator
3. " -88.8° " Angle value
4. " O " Aiming mark (bull's eye)
5. "Hgt" Height marker, Display when measuring height mode
6. "DST " Distance mark
7. "8888.8 " Distance value
8. " KMY/HS " Measure unit mark
9. " Hor " Horizontal marker, Display in horizontal mode

10. “888.8” Horizontal or altitude distance value

11. “ SPD ” Speed mark

12. “ ” Flagpole mark, Display in flagpole lock mode

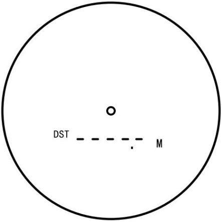
13. “ ” Slope Correction Indicator

Operation Instructions

1. Turn on rangefinder:

There are two buttons on the rangefinder:

the Power/Measure button “ ” and the Mode/Unit Switch button “ ”. Short press the Power/Measure button“ ” to turn on the rangefinder. The rangefinder will automatically enter Distance Measurement Mode upon startup. The display interface in this mode is shown below:



2. Adjust the dioptrefocus

The rangefinder is designed with an adjustable eyepiece. By adjusting the focusing dioptre from−5 to +5, people who with nearsighted or farsighted can use laser range finder normally without glasses. Observed through the eyepiece, turn the dioptre left or right until the view is focused with clarity to suit you.

3. Mode/Unit Switch button

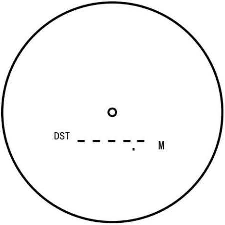
Long press the Mode/Unit Switch button “”. The measuring unit will be changed between “M” and “Y ”. The unit display is memory display. It means the unit after each power on is the unit when the power was turned off last time.

4. Measuring mode selection

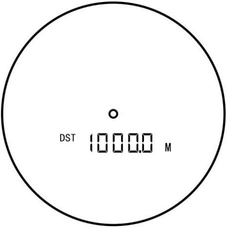
Short press “” to switch the measurement mode, long press to switch the unit, the measurement mode is memory display. It means the unit after each power on is the unit when the power was turned off last time.

Functions are below

1. Distance Measuring Mode



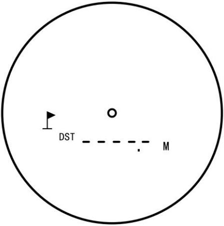
Under the distance measuring mode, align the bull's eye“○” with the target to be measured, short press Power/Measure button “◎”. The bull's eye “○” will be flickered as . The distance value appears on the screen and vibrates to indicate. The display as shown in the below figure.



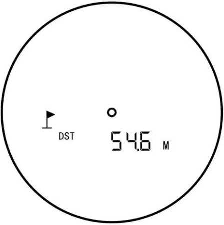
Long press Power/Measure button “ ” enter into scan mode. The rangefinder will be continuously measured. Values will be real time displayed.

2. Golf Mode

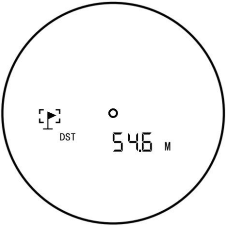
① Flagpole Mode (Angle off (green), indicator light on)



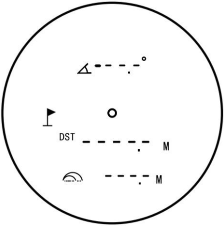
Under the Flagpole mode, align the bull’s eye “ ” with the target to be measured, short press Power/Measure button “ ”. The bull’s eye “ ” will be flickered as “ ”. The value appears on the screen and vibrates to indicate. Short pressing does not activate the locking function of the flagpole.The display as shown in the below figure:



Under the Flagpole mode, long press Power/Measure button "◎" to perform continuous measurements around the golf flagpole. When the rangerfinder successfully locks onto the flagpole, it will vibrate momentarily to notify. At the same time, the flagpole icon "⚑" will change to "[⚑]". The display interface in this mode is shown below:

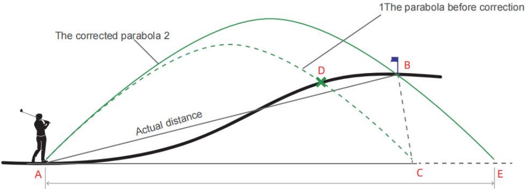


② Slope Correction Mode (Angle on (black), indicator off)



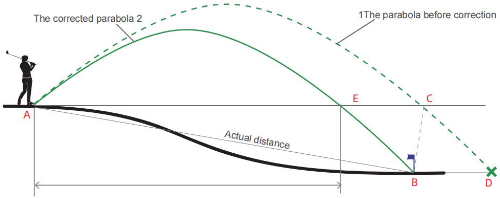
The slope correction mode is often used in golf and it is also commonly referred to golf flagpole lock mode.

The situation of the slope is positive:



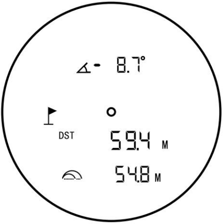
Actual distance is AB, slope adjustment value is AE.

The situation of the slope is negative:

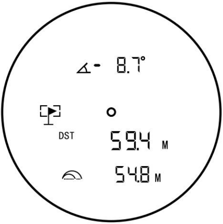


Actual distance is AB , slope adjustment value is AE.

Under the slope correction mode, short press the Power/Measure button "◎", the bull's eye "○" will be flickered as "-○-". The value appears on the screen and vibrates to indicate. A short press cannot activate the flagpole locking function. The display interface is as follows:

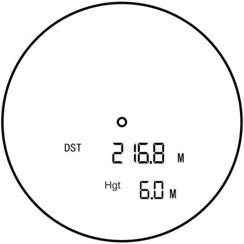


Under the slope correction mode, long press the Power/Measure button “ ” move device up and down to scan the flagpole. After locking flagpole, the instrument will vibrate instantly , it reminds you to get the angle value, distance value and slope adjustment value. the flagpole icon “ ” is displayed as “ ”. The interface is as shown below.

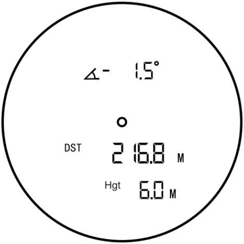


3. Angle/Distance between Two Points/Height Mode

The display as shown in the below figure:



Angle off display



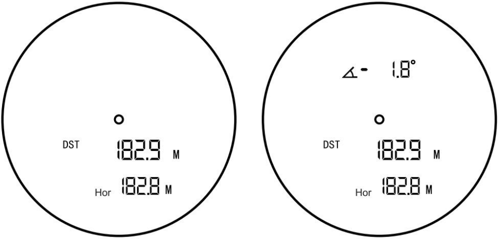
Angle open display

Under this mode, short press measuring button"" , the bull's eye "" will be flickered as "". The value appears on the screen and vibrates to indicate.

Under this mode, long press the measuring button"" enter into continuous measurement mode. The rangefinder will be continuously measured. Values will be real time displayed.

4. Angle/Distance between Two Points/Horizontal Distance Mode

The display as shown in the below figure.



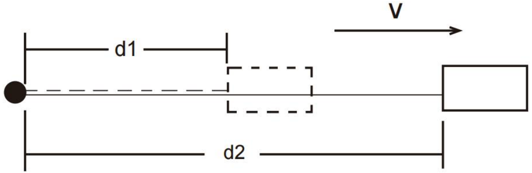
Angle off display   Angle open display

Under this mode, short press measuring button “ ”, the bull’s eye “ ” will be flickered as “ ”. The value appears on the screen and vibrates to indicate.

Under this mode, long press the measuring button “ ” enter into continuous measurement mode. The rangefinder will be continuously measured. Values will be real time displayed.

5. “Speed ” Mode

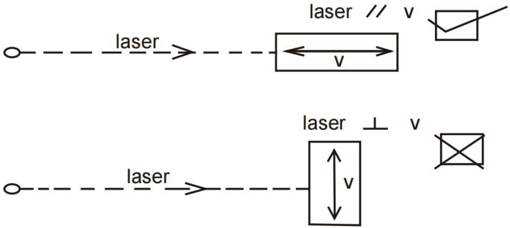
1.Function Principle:



$$v=(d2-d1)/t$$

By measuring the distance to a moving object twice, the difference in distance divided by the time interval between the two measurements gives the speed of the moving object.

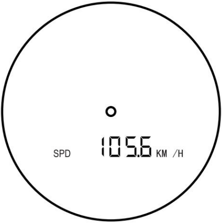
2.Velocimetry Method:



Note: Speed measurement works only for objects moving directly toward you. It cannot measure the speed of objects moving horizontally.

3.Mode Interface:

Under the mode of measuring speed, short press the power/measuring button "◯" and keep the crosshair aligned with the moving target until the speed value appears on the display.



Usage Precautions

- The measurement range of this rangefinder depends on the nature of the target, the angle between the beam and the target, and the visibility of the weather. Generally, smoother, brighter, larger targets with the beam perpendicular to the surface, and clear weather, result in longer measurements. Conversely, rough, dark, small targets, angled beams, or poor weather will reduce the range.
- When the “ ” (low battery indicator) appears, please use a certified charger to recharge or replace the battery. Otherwise, measurement accuracy may decrease.
- Avoid touching the lens surface with your fingers during use to prevent damage to the coating on the lens.
- This device has been precisely calibrated. Do not disassemble it without authorization.
- If the exposed glass becomes dirty, gently clean it with a lens cleaning cloth. Do not use other objects to wipe it, as this may damage the optical glass coating.
- During use or transport, avoid collisions, heavy pressure, high heat, or corrosive substances.

- Store in a dry, cool, and well-ventilated place. Protect it from direct sunlight, dust, and sudden temperature changes.
- If the laser rangefinder is damaged, send it to a professional repair service for maintenance. Do not attempt to repair it yourself.
- Do not point the laser rangefinder at sunlight or strong light sources to avoid damage to the photosensitive elements.

Three Years Warranty

For further detail of warranty coverage and warranty repair information,send email to **support@cigman.com**

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