

LASER TECH
TruPulse
200i, 360i
Laser
Rangefinder



LASER TECH TruPulse 200i, 360i Laser Rangefinder User Guide

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LASER TECH TruPulse 200i, 360i Laser Rangefinder



Product Information

Specifications:

- **Model:** TruPulse i Series
- **Part Number:** 0145003
- **Navigation Buttons:** Menu Button, Select Button, Fire Button
- **Measurement Modes:** Inclination, Slope Distance, Horizontal Distance, Vertical Distance, Height

Product Usage Instructions

Change Units of Measurement (UoM)

1. Press Menu Button to enter Setting menu, then press Menu button to scroll to the UoM option screen is displayed. The last UoM options chosen will be displayed.
2. Press Navigation Buttons to scroll through the UoM options. Options include Meters/Degrees, Meters/Percent (%), Feet/Degrees, Feet Percent (%)

Select Targeting Mode

1. Press Menu Button to enter Setting menu, then scroll until the Targeting Mode option screen is displayed.
2. Use Navigation Buttons to choose from Target Modes: Standard (Std), Filter (FILt), Closest (CLo), Farthest (FAr), Continuous.
3. Press Select button to make the current Targeting Mode active.
4. Ready to take measurement with selected Targeting Mode option. Repeat steps to change target mode option.

Measure Distance

1. Press Navigation buttons until measurement screen is displayed.
2. Aim at the target with a clear line of sight and press-and-hold the fire button.
3. The laser indicator will be displayed until measurement is acquired or fire button is released.
4. Use Navigation Buttons to scroll through other measurement values calculated.
5. To clear measurements, press Fire button and repeat steps 1 through 4.

FAQ:

- **Q: How can I change the units of measurement?**

A: Press the Menu Button to access the Setting menu, then navigate to the UoM options and select the desired unit (Meters/Degrees, Meters/Percent (%), Feet/Degrees, Feet Percent (%)) using the Navigation Buttons.

- **Q: How do I select a Targeting Mode?**

A: Access the Setting menu by pressing the Menu Button, then choose the Targeting Mode option. Scroll through the available modes using the Navigation Buttons and select the desired mode by pressing the Select Button.

- **Q: How do I measure distance accurately?**

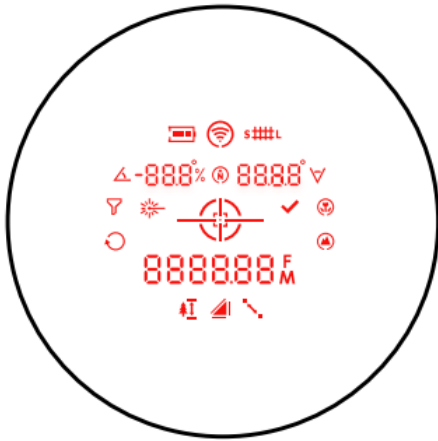
A: Press the Navigation buttons until the measurement screen is displayed. Aim at your target and press-and-hold the Fire Button. Use the Navigation Buttons to view different calculated measurements. To clear measurements, press the Fire Button.

OVERVIEW



Display Icons

Measurement Modes • Display Icons



 Inclination

 Slope Distance

 Horizontal Distance

 Vertical Distance

 Height

 Missing Line

 Battery Life Indicator

 Laser Firing

F Feet

M Meters

 Azimuth

% Percent

Target Modes •  Closest  Farthest  Continuous  Filter

 Bluetooth  Gate Indicators

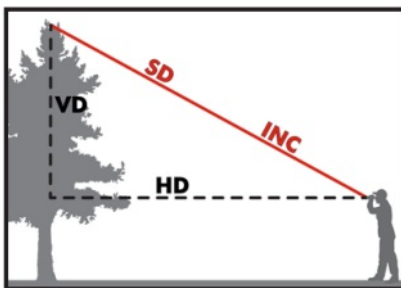
Values & Key Code

TruPulse® 200i

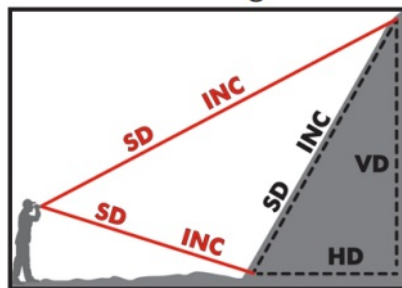
Measured by TruPulse

Calculated by TruPulse

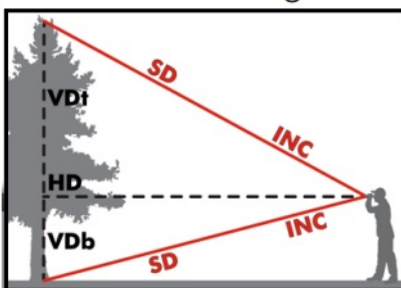
1-Shot Distance



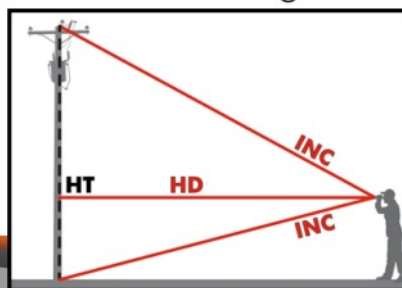
2D Missing Line









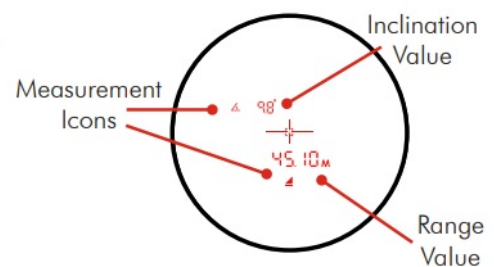
2-Shot Height



3-Shot Height



-  = Horizontal Distance (HD)
-  = Slope Distance (SD)
-  = Vertical Distance (VD)
-  = Height (HT)
-  = Inclination (INC)
-  = Missing Line Routine (ML)

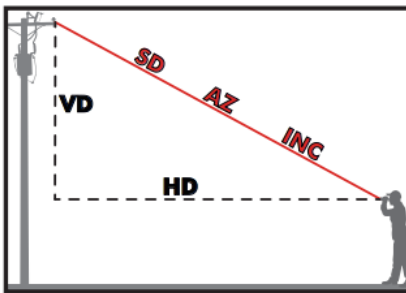


TruPulse® 360i

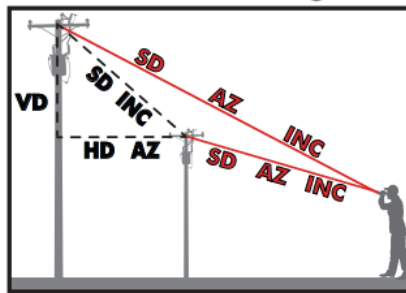
Measured by TruPulse

Calculated by TruPulse

1-Shot Distance

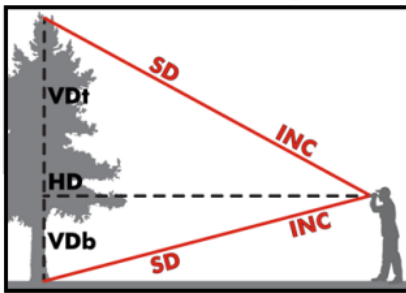


3D-Shot Missing Line

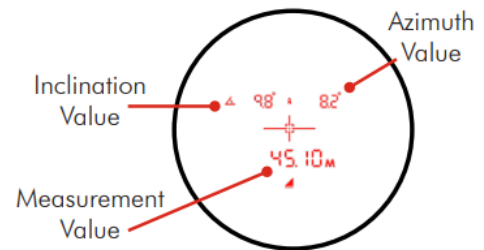
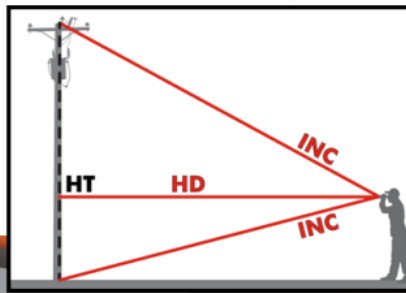


- = Horizontal Distance (HD)
- = Slope Distance (SD)
- = Vertical Distance (VD)
- = Azimuth (AZ)
- = Inclination (INC)

2-Shot Height



3-Shot Height



Change Units of Measurement (UoM)

- Press Menu Button to enter Setting menu, then press Menu button to scroll to the UoM option screen is displayed. The last UoM options chosen will be displayed.
- Press Navigation Buttons to scroll through the UoM options. Meters/Degrees, Meters/Percent (%), Feet/Degrees, Feet Percent (%)




Select Targeting Mode







The TruPulse i Series has five Target Modes which allow you to select or eliminate targets and to take the most accurate measurements possible in various field conditions.

- Press Menu Button to enter Setting menu, then press Menu button to scroll until the Targeting Mode option screen is displayed. The last Targeting option chosen will be displayed.
- Press Navigation Buttons to scroll through the Targeting Mode options. – Standard (Std) , Filter (FILt), Closest (CLo) , Farthest (FAr) , Continuous (Cont)
- Press Select button to make the current Targeting Mode displayed the active mode.
- Ready to take measurement with selected Targeting Mode option. The icon of selected mode will be displayed. Standard Mode does not have an icon displayed.
- Repeat steps to change target mode option.


NOTE: Any option that chosen will be set when you return to the Measurement Mode. To save the option and be active when the unit powers off and on: Manually power off the unit.

Measure Distance

- In the Slope Distance Mode , the TruPulse i Series will automatically calculate  and .
- Measurements are from the 1/4-20 tripod mount (center) of the laser to the target.

1. Press the Navigation buttons  until  screen is displayed.
2. Aim at the target where you have a clear line of sight then press-and-hold the fire button 
 1. The laser indicator  will be displayed until measurement is acquired or fire button  is released.
3. Press Navigation Buttons  to scroll through the other measurement values calculated.
4. Press Fire button to clear measurements and repeat step 1 through 4

Helpful Tip

The Vertical Distance  solution can be used to measure height or clearance. In Fig. 1 & 2, just add the height of the laser at your eye level from the ground to the  measurement.

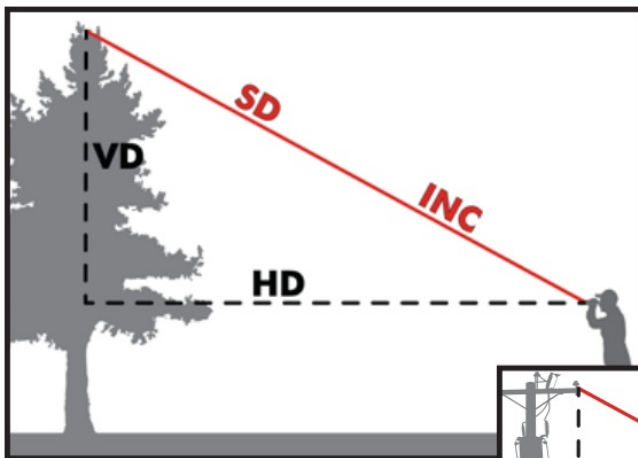


Fig. 1

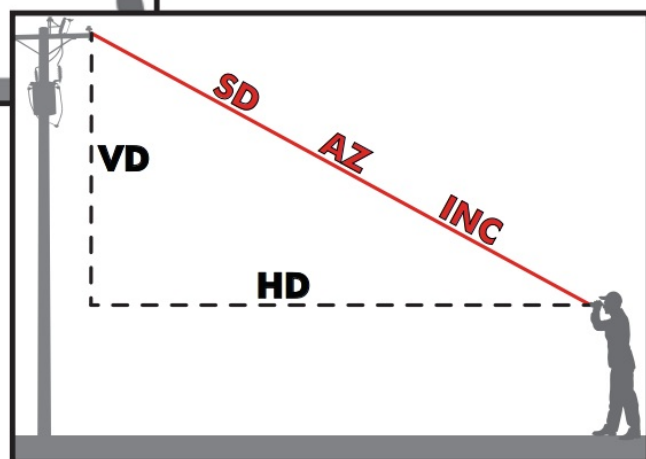


Fig. 2


Measure Height


Measure Height (3-pt Routine)



This routine is ideal for flat, vertical objects that do not lean. To shoot through brush, use the filter mode, foliage

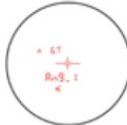
filter and a reflector.



1. Press Navigation buttons  until  is displayed.


2. Aim where you have a clear line of sight to the target and press-and-hold fire button .

1. The laser indicator  will be displayed. The horizontal distance is acquired and displayed.

3.  is displayed, aim to the bottom of the target, press-and-hold fire button  the inclination

Angle_1 is measured and displayed. 

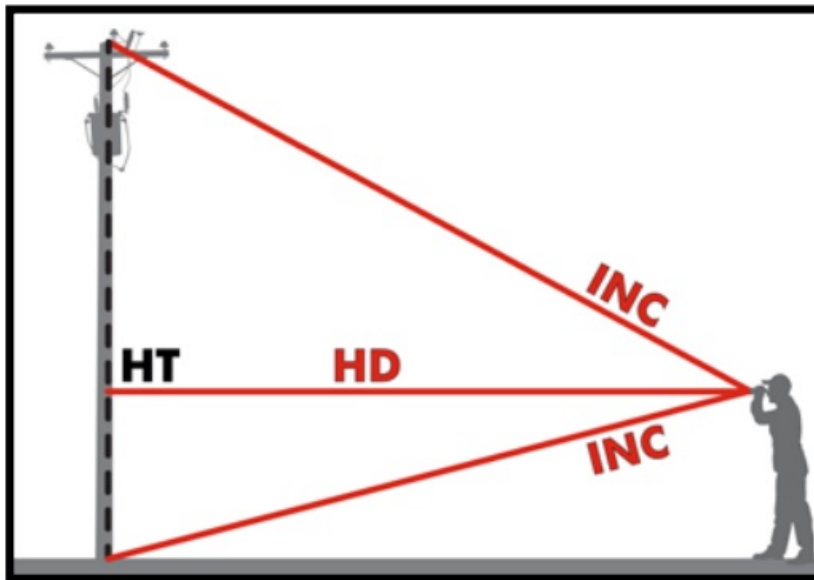
4.  is displayed, aim at the top of target, press-and-hold , the inclination angle_2 is measured and


displayed. 

5. Height measurement is calculated , display flashes then solid with calculated height value.

Helpful Tip










- The laser sensor does not measure when taking the two inclination angle measurements. You do not need a clear line of sight to the bottom or top of your target.

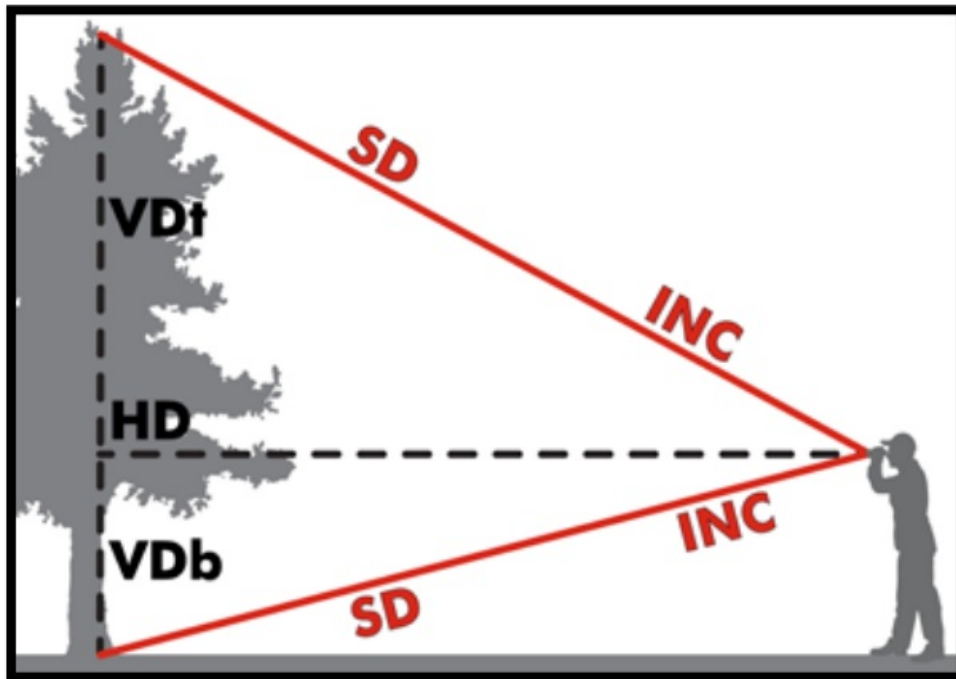


- The sequence of the two inclination angles shots does not matter: Bottom to Top OR Top to Bottom.
- Press the  Select button during the Height routine to re-measure previous measurement (ANG__1 or ANG__2), ideal for taking multiple height measurements on the same target.

Measure Height in 2-Shots


















This measurement routine is ideal for leaning objects and requires a clear line of sight for both shots.

1. Press Navigation buttons   until  is displayed
2. Aim where you have a clear line of sight to the bottom of the target and press-and-hold fire button 
 1. The laser indicator  will be displayed. When the measurement is acquired  will be displayed.
Note this value for the Vertical Distance (VD_b) measurement.
3. Aim where you have a clear line of sight at the top of the target then press-and-hold the fire button .
4. The laser indicator  will be displayed. When the measurement is acquired  will be displayed. Note this value for the Vertical Distance top (VD_t) value.
5. Subtract the two values to calculate the height, $VD_t - VD_b = \text{Height}$.



NOTE: when subtracting the values, pay attention to the sign of the VD.

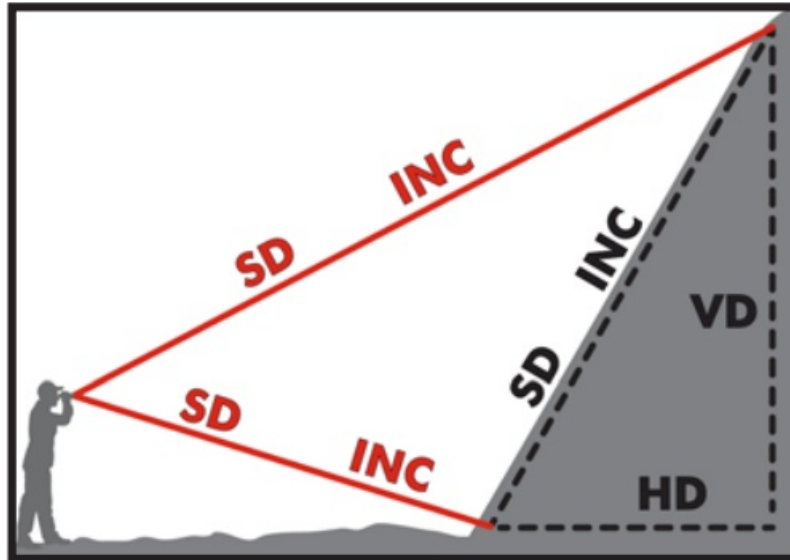
Measure 2D Vertical Missing Line

1. Press Navigation Buttons  until  is displayed.
2. Aim where you have a clear line of sight at target, press-and-hold fire button 
 1. The laser indicator  will be displayed. When the measurement is acquired  Shot.1 results will be displayed.
3.  is displayed, Aim where you have a clear line of sight at target, press-and-hold fire button. 
 1. The laser indicator  will be displayed. When the measurement is acquired  Shot.2 results will be displayed.
4. The HD  and INC  ML values will be calculated and displayed , press navigation buttons to scroll through the SD  and VD  ML values from shot 1 to shot 2.
5. Press Check button  to scroll to  and re-measure the Shot.2,
6. Continue to press Check button  to return to step 1.

7. Press fire button  to return to step 1.

Helpful Tip

- Position yourself where shot 1 and 2 are made looking in the same direction with a clear line of sight to both targets.



- The VD solution will always be accurate no matter which direction shot 1 and 2 are taken.
 - If shot 1 is higher than shot 2, the VD value will be negative.

Measure 3D Missing Line (TruPulse 360i only)

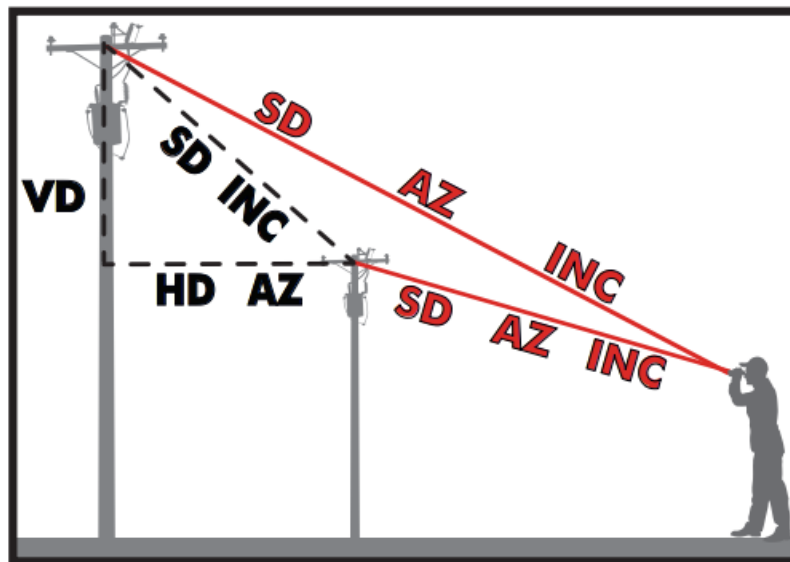
1. Position yourself anywhere you have a clear line of site to your two targets.

2. Press Navigation Buttons  until  is displayed.

3. Follow the same steps 2-7 from the 2D Vertical Missing Line routine.

4. The TruPulse 360i calculate five variables between the two points: slope distance, inclination, azimuth, horizontal distance, and vertical distance as shown in Figure.

Tips: Improving the accuracy results








- During the Missing Line Routine, it is important that the TruPulse stay positioned above one particular point on the ground.
- Mounting the TruPulse on a monopod or tripod will improve the accuracy of your results location of the TruPulse.
- If you are using the TruPulse handheld, be aware of your body having a swinging motion as you aim to second target.


User Field Calibration

Compass










To begin the routine, you should be holding the TruPulse and facing towards Magnetic North. Always perform outside and away from magnetic interference.

1. Press Menu button  to enter Setting menu.
2. Press Menu button  to scroll to the User Calibration option .
3. Press Navigation Buttons  to , then press select button .

Helpful Tip

- Always recalibrate your compass when Calibration icon  flashes.
- If calibration fails repeatedly, perform the tilt calibration then repeat steps.



1. Face North ($\pm 10^\circ$), hold in position 1 (C1_Fd), press .
2. Hold in position 2 (C2_dn), press .
3. Hold in position 3 (C3_bc), press .
4. Hold in position 4 (C4_UP), press .
5. Hold in position 5 (C5_rF), press .
6. Hold in position 6 (C6_rd), press .
7. Hold in position 7 (C7_rb), press .
8. Hold in position 8 (C8_rU), press .
9. If FAIL message appears, press , re-enter the Compass Calibration menu and repeat steps 1-8.
10. If PASS message appears, press Select  to save and return to the measurement screen.

Navigate to the correct model and then Downloads for the User Manual:



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LTI YouTube® Channel [YouTube.com/lasertechpro](https://www.youtube.com/lasertechpro) for TruPulse® Training Videos

*For detailed instructions on the TruPulse i Series operations, please refer to lasertech.com/professional-measurement-products and navigate to the TruPulse product's webpage.



Documents / Resources



[LASER TECH TruPulse 200i, 360i Laser Rangefinder](#) [pdf] User Guide

200i, 360i, TruPulse 200i 360i Laser Rangefinder, TruPulse 200i 360i, Laser Rangefinder, Rangefinder

References

-  [Laser Tech - Laser Measurement Innovation](#)
-  [Products \(Professional Measurement\) - Laser Tech](#)
- [User Manual](#)

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