TRUPULSE® 200i & 360i QUICK REFERENCE FIELD GUIDE

LTI Part 0145003

TruPulse® i Series

Navigation Buttons

Menu Button

Select Button

Fire Button

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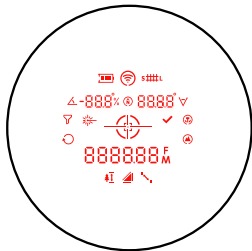Centennial, CO 80112 USA

LTI YouTube® Channel
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.

LASER TECH

TruPulse® i Series 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
- **N̂** Azimuth
- **%** Percent

Target Modes ·

- Closest
- Farthest
- Continuous
- Filter
- Bluetooth
- Gate Indicators

LASER TECH

TruPulse® 200i
Values & Key Code

Measured by TruPulse

Calculated by TruPulse

◣ = Horizontal Distance (**HD**)

◪ = Slope Distance (**SD**)

◪▌ = Vertical Distance (**VD**)

🌲↕ = Height (**HT**)

△ = Inclination (**INC**)

➘ Missing Line Routine (**ML**)

1-Shot Distance

VD
SD
INC
HD

2D Missing Line

INC
SD
SD
INC
SD INC
VD
HD

2-Shot Height

VDt
SD
INC
HD
INC
VDb
SD

3-Shot Height

SD
INC
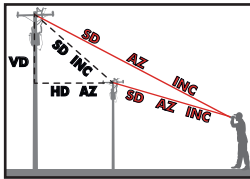HT
HD
INC

Inclination Value

Measurement Icons

△ 98°

45.10M

Range Value
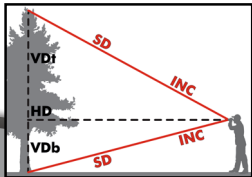
TruPulse® 360i
Values & Key Code

Measured by TruPulse
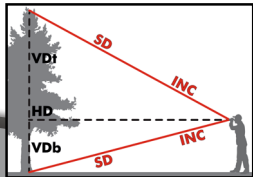
- - - - - Calculated by TruPulse

1-Shot Distance
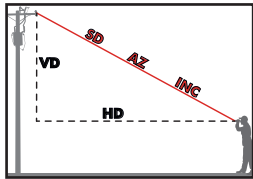
3D-Shot Missing Line

2-Shot Height

3-Shot Height

◣ = Horizontal Distance (**HD**)

◢ = Slope Distance (**SD**)

◣| = Vertical Distance (**VD**)

N̂ = Azimuth (**AZ**)

△ = Inclination (**INC**)

Inclination Value

Azimuth Value
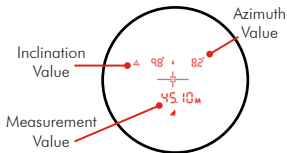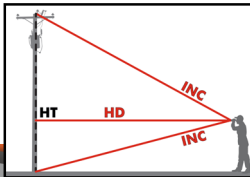
Measurement Value

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. 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.

[1] 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.

[2] Press Navigation Buttons 🔼🔽 to scroll through the Targeting Mode options.
- Standard (Std) , Filter (FILt), Closest (CLo) , Farthest (FAr) , Continuous (Cont)

[3] Press Select button ✅ to make the current Targeting Mode displayed the active mode.

[4] 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.

[5] 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.

LASER TECH

Measure Distance

- In the Slope Distance Mode ◢, the TruPulse i Series will automatically calculate ◣ and ◢.
- Measurements are from the ¼-20 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 🔘

    [2.1] 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.

Measure Distance Continued

[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.
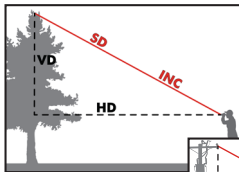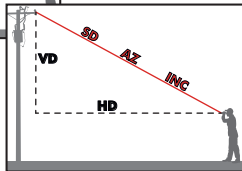

Fig. 1

Fig. 2

Measure Height (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 📷.

　　[2.1] 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. ( )

Measure Height (3-pt Routine) Continued 🌲

[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.

LASER TECH
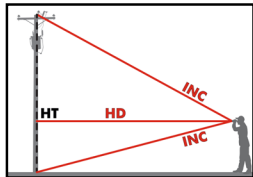
Measure Height in 2-Shots

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 🔘

> [2.1] The laser indicator ☀ will be displayed. When the measurement is acquired ◢ will be displayed. Note this value for the Vertical Distance (VDb) measurement.

[3] Aim where you have a clear line of sight at the top of the target then press-and-hold the fire button 🔘 .

LASER TECH

Measure Height in 2-Shots Continued

[4] The laser indicator ☀ will be displayed. When the measurement is acquired ◢ will be displayed. Note this value for the Vertical Distance top (VDt) value.
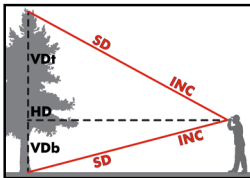
[5] Subtract the two values to calculate the height, **VDt -VDb = Height.**

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 🔘

[2.1] 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. 🔘

[3.1] The laser indicator ✳ will be displayed. When the measurement is acquired ⊕ Shot.2 results will be displayed.

LASER TECH

Measure 2D Vertical Missing Line Continued ↘

[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.
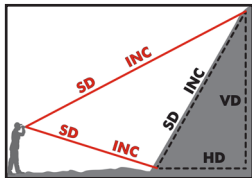
Measure 3D Missing Line (TruPulse 360i only)

[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.
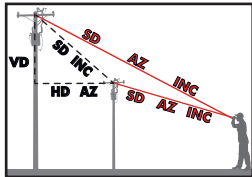
User Field Calibration: Compass

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.

LASER TECH

User Field Calibration: Compass Cont'd

[1] Face North (± 10°), 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.

1 TruPulse Facing North 5

2 6

3 7

4 8

LASER TECH

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

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