



TRUPULSE® L2

QUICK REFERENCE

FIELD GUIDE

LTI Part #0145007

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TruPulse® L2



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www.youtube.com/lasertechpro

for TruPulse® Training Videos

*For detailed instructions on the TruPulse L2 operations, please refer to www.lasertech.com/laser-distance-measurement and navigate to TruPulse L2 product webpage.

TruPulse® L2 Display Icons



Measurement Modes • Display Icons

 Inclination

 Slope
Distance

 Horizontal
Distance

 Vertical
Distance

 Height

 2D Missing Line

 Battery Life
Indicator

 Laser Firing

F Feet

M Meters

 Degrees

 Percent

Target Modes •



Closest



Farthest

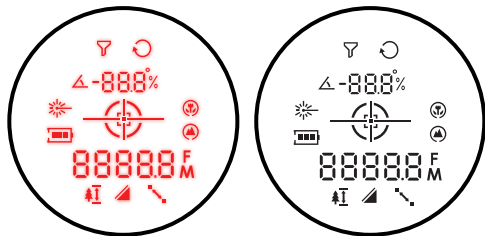


Continuous



Filter

TruPulse® L2 Display



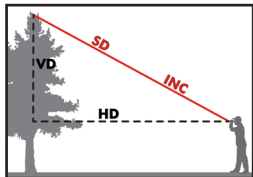
The TruPulse L2 is equipped with a dual color display and can show information in Red or Black. With a built-in light sensor that reads ambient light, the internal software adjusts the red brightness intensity based on the measured light reading.

Change Display Options:

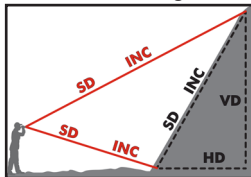
Short Press **DISP/MENU** button toggles the Automatic brightness display. Short Press the button to change the display color from black to red. For low light conditions, it is recommended to use the red display, and in bright sunny conditions, the black display.

TruPulse® L2 Values & Key Code

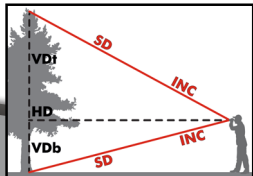
1-Shot Distance



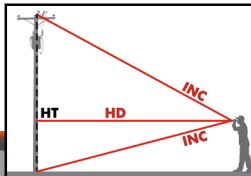
2-Shot Missing Line



2-Shot Height








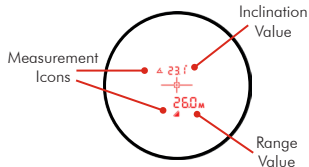
3-Shot Height





Measured by TruPulse




Calculated by TruPulse

-  = Horizontal Distance (HD)
-  = Slope Distance (SD)
-  = Vertical Distance (VD)
-  = Height (HT)
-  = Inclination (INC)

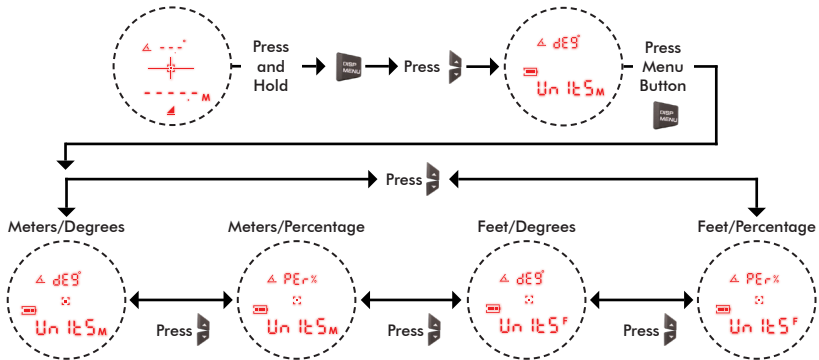


Change Units of Measurement (UoM)

[1] Press-and-hold Display/Menu button  then press Up or Down Arrow button  to scroll until the UoM option is displayed. The last UoM options chosen will be displayed.

[2] Press Display/Menu button  to enter option selections, the  icon will be displayed indicating the UoM option menu. Then press the Up or Down buttons  to scroll through UoM options.

Change Units of Measurement (UoM) Continued






[1] Press Fire button  to select UoM option and ready to take measurement.

Select Targeting Mode

The TruPulse L2 has five Target Modes which allow you to select or eliminate targets and to take the most accurate measurements possible in various field conditions.

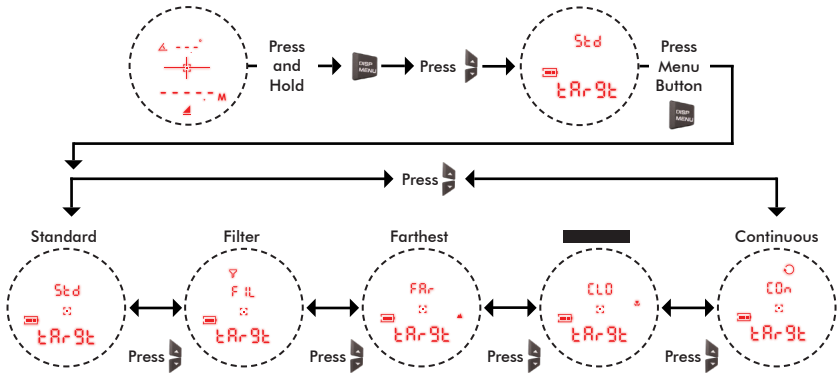
[1] Press-and-hold Display/Menu button  then press Up or Down button  to scroll to the Target Mode option screen display.

[2] Press-and-hold Display/Menu button  to enter the Targeting Mode option selections, the  icon will be displayed indicating the Target Mode option menu. Then press Up or Down button  to scroll through options.




[3] Press Fire button  to select option. 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.

[4] Repeat steps to change target mode option.


Select Targeting Mode Continued





Measure Distance

- In the Slope Distance Mode  , the TruPulse L2 will automatically calculate  and  .
- Measurements are from the 1/4-20 tripod mount (center) of the laser to the target.


[1] Press the Up or Down button  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.

Displayed result will “flash” indicating measurement acquired.

Measure Distance Continued

- [3] Press Up or Down buttons  to scroll through the other measurement values calculated.
- [4] Press Fire button to clear measurements and repeat steps 1 through 4.
- [4] Press Fire button to clear measurements and repeat steps 1 through 4.

Helpful Tip

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

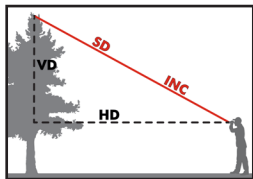
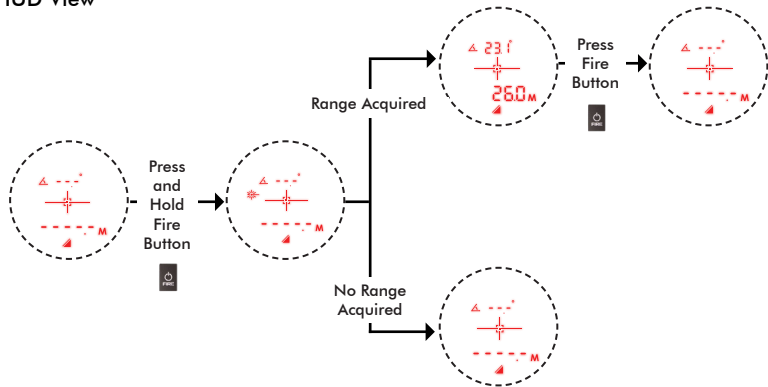


Fig. 1

Basic Measurements


HUD View








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 Up or Down 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. 

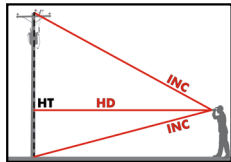
[4]  is displayed, aim at the top of target, press-and-hold , the inclination angle_2 is measured and displayed. 

Measure Height (3-pt Routine) Continued

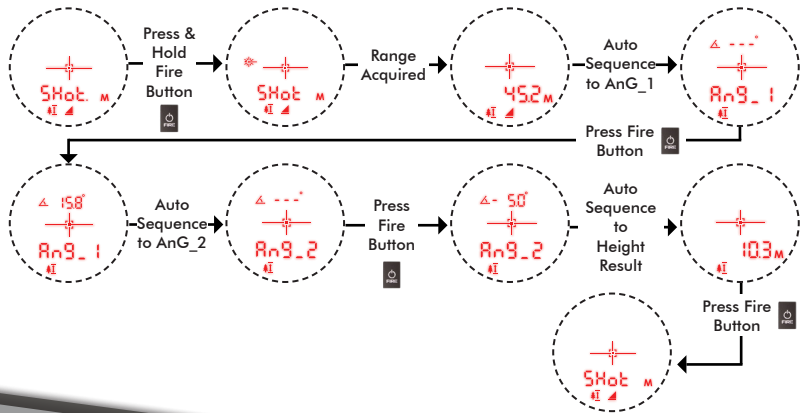
[5] Height measurement is calculated , display flashes then solid with calculated height value.

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  Down arrow during the Height routine to re-measure previous measurement (ANG__1 or ANG__2), Ideal for taking multiple height measurements on the same target.




Basic HT Routine






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 Up or Down buttons  until  is displayed.

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

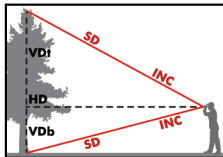
[2.1] The laser indicator  will be displayed. When the measurement is acquired  will be displayed. Note this value for the Vertical Distance (VDb) measurement.

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

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] Add the two values to calculate the height $VDb + VDt = \text{Height}$.







Measure 2D Vertical Missing Line ↘

[1] Press Up or Down 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. 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.

Measure 2D Vertical Missing Line Continued ↘

[4] The HD  and INC  ML values will be calculated and displayed



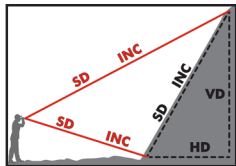
, press  up arrow to scroll through the SD  and VD  ML values from shot 1 to shot 2. Press fire button  to return to step 1.

[5] Press  down arrow to scroll to  and re-measure the Shot.2,

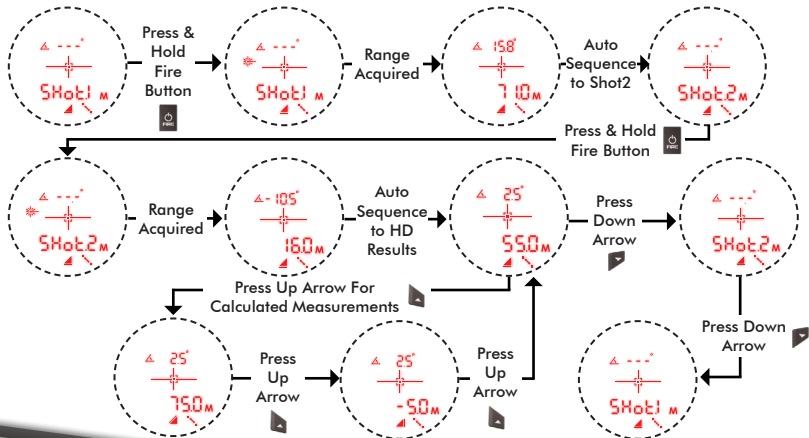
[6] Continue to press  down arrow to return to step 1.

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 2 is longer and higher than shot 1, the VD value will be negative.



Basic ML Routine



LASER TECH

Full Version of the
TruPulse L2 Manual



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