



# TruPulse<sup>®</sup> Quick Reference Field Guides

TruPulse<sup>®</sup> Models: 200, 200 B, 360, 360 B and 360 R



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[www.youtube.com/lasertechpro](http://www.youtube.com/lasertechpro)  
for TruPulse® Training Videos



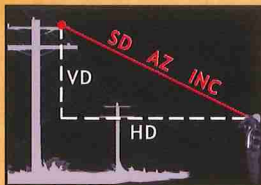
TruPulse® 200/B, 360/B



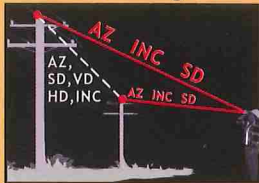
TruPulse® 360 R

# TruPulse® Values & Key Code:

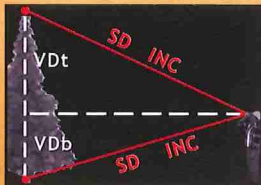
## 1-Shot HD Mode:



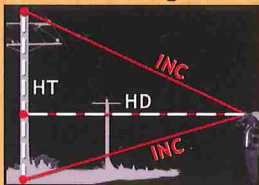
## 2-Shot Missing Line:



## 2-Shot Height:



## 3-Shot Height:



Measured by TruPulse:



Calculated by TruPulse:



**HD** = Horizontal Distance

**SD** = Slope Distance


**VD** = Vertical Distance

**HT** = Height


**INC** = Inclination

**AZ** = Azimuth (360 models)

**ML** = Missing Line

 = Fire Button

 = Up Button

 = Down Button






(**SCOPE**) = In-scope Top

(**HD**) = In-scope Bottom















## Change Units of Measurement:

- [1] Press-and-hold  (U n, t 5), then press .
- [2] Press  to scroll through (**YARDS METERS FEET**) and press  to choose.
- [3] Press  to scroll through (**DEGREES PERCENT**) and press  to choose.

## Turn On or Off Bluetooth® (Models 200B, 360B/R):

- [1] Press-and-hold  (U n, t 5), then press  again (b t).
- [2] Press , then press  to scroll through (U n, t 5) (b t o f f).
- [3] Press  to choose.

## Change Targeting Mode:

- For **Standard Mode**, press-and-hold  (t 5 t d t), then press .
- For **Filter Mode**, press-and-hold  (t 5 t d t), press  (t F L t t t), then press .
- For **Farthest Mode**, press-and-hold  (t 5 t d t), press  twice (t F A r t), then press .
- For **Closest Mode**, press-and-hold  (t 5 t d t), press  twice (t L L o t), then press .
- For **Continuous Mode**, press-and-hold  (t 5 t d t), press  (t L o n t), then press .




















## Required Clearances from TruPulse® Compass:

When firing the TruPulse 360, please maintain a safe clearance of:

- 6 in (15 cm) minimum:** Metal rim glasses, pen/pencil, metal watch band, pocket knife, metal zipper/buttons, belt buckle, batteries, binoculars, cell phone, keys, camera, camcorder, survey nails, metal tape measure.
- 18 in (50 cm) minimum:** Clipboard, data collector, computer, GPS antenna, 2-way radio, hand gun, hatchet, cell phone case with magnetic closure.
- 6 ft (2 m) minimum:** Bicycle, fire hydrant, road signs, sewer cap or drain, steel pole, ATV, guy wire, magnets, chain-link fence, bar-wire fence, data collectors that use a magnet to hold the stylus.
- 15 ft (5 m) minimum:** Electrical box, small car/truck, powerline, building with concrete & steel.
- 30 ft (10 m) minimum:** Large truck, metal building, heavy machinery.

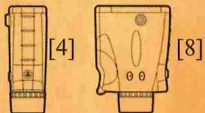
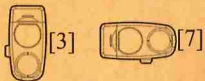
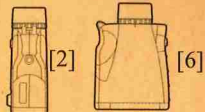
## Calibrate the Compass (Models 360/B/R):

Always perform outside, away from magnetic interference and face towards Magnetic North.

- [1] Press-and-hold  (W n . t 5), press  until (M \_ A n 9)
- [2] Press  (d E C C n), press  (M A C A L), press .
- [3] (n o)(M A C A L), press  (y E 5)(M A C A L), press .
- [4] Face North (C 1 . F d), hold in position 1, press  (C 2 . d n).
- [5] Hold in position 2, press  (C 3 . b d), hold in position 3.
- [6] Press  (C 4 . u P), hold in position 4, press  (C 5 . r F).
- [7] Hold in position 5, press  (C 6 . r d), hold in position 6.
- [8] Press  (C 7 . r b), hold in position 7, press  (C 8 . r U).
- [9] Hold in position 8, press . If (F A H), press  and repeat steps 4 through 8. If (P A 5), press  ( . . . . **HD**).

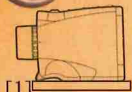
## Helpful Tips:

- [1] Always recalibrate your compass when (**AZ**) flashes.
- [2] If calibration fails repeatedly, perform the tilt calibration then repeat steps.

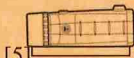


## Calibrate the Tilt Sensor (Models 360/B/R):

Always perform on a flat, fairly level surface. For the TruPulse 360 R, you will need to use the edge of a surface to access the buttons in position 3.



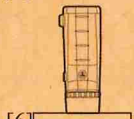
[1]



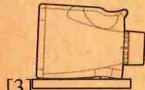
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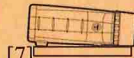
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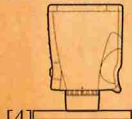
[6]



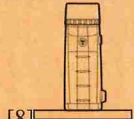
[3]



[7]



[4]



[8]

- [1] Press-and-hold (W, E S), press until (r n l).
- [2] Press (r o) (L A L), press (Y E S) (L A L), press .
- [3] (L 1 . F d), hold in position 1, press (L 2 . d n).
- [4] Hold in position 2, press (L 3 . b c).
- [5] Hold in position 3, press (L 4 . u p).  
[Hang 360 R buttons over an edge and press .]
- [6] Hold in position 4, press (L 5 . r f).
- [7] Hold in position 5, press (L 6 . r d).
- [8] Hold in position 6, press (L 7 . r b).
- [9] Hold in position 7, press (L 8 . r u).
- [10] Hold in position 8, press .

If (F A I L), press and repeat steps 3 through 10.

If (P A S S), press ( . . . . HD).

## Measure Distance:

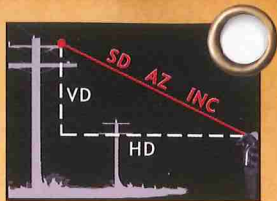
In HD Mode, it will automatically measure SD, INC and AZ\* then calculate VD and HD. It outputs all the values via serial and/or Bluetooth® (Models B & R only). Measurements are from the center of laser to target.

- [1] Press until (· · · · **HD**).
- [2] Aim at target where you have a clear line of sight then press-and-hold (1230 **HD**).
- [3] Press to scroll through (2345 **SD VD INC AZ**).

## Calibrate the Tilt Sensor (Models 200/B):

Always perform on a flat, fairly level surface.

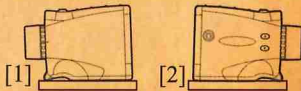
- [1] Press-and-hold (done), press until (CAL).
- [2] Press (CAL . 0), press (CAL . 4), press .
- [3] (CAL . 1), hold in position 1, press (CAL . 2).
- [4] Rotate 180° to position 2, then press (done).
- [5] Press (· · · · **HD**).



\*For TruPulse 360/B/R models only

## Helpful Tips:





- [1] To achieve 1 ft (30 cm) distance accuracy, hold down until a decimal point displays.
- [2] To shoot through brush, use the filter mode, foliage filter and a reflector.








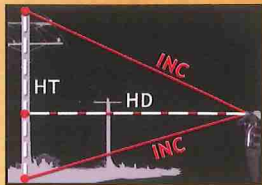
## Measure Height in 3-Shots:

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  until (. . . . **HT**) and (**HD**) flashes.
- [2] Aim anywhere you have a clear line of sight and press-and-hold  (**12.30 HD**).
- [3] (**0.0 1**) Aim to top, then press-and-hold .
- [4] (**12.0 INC**) (**0.0 2**) Aim to bottom, press-and-hold , (**1.0 INC**) (**20.3 HT**).

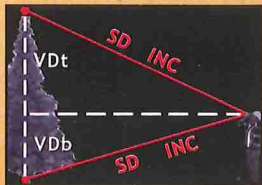
## Measure Height in 2-Shots:

- [1] Press  until (**VD**), aim at top of target then press-and-hold  (**25.0 VD**)t. Note value.
- [2] Aim at the bottom of the target then press-and-hold  (**2.5 VD**)b. Note value and  $HT = VD_t - VD_b$ .



## Helpful Tip:

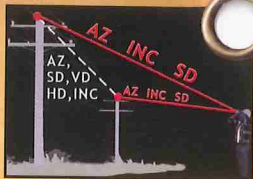
The 2-shot HT works well on leaning objects but requires a clear line of sight for both shots.



## Measure Missing Line (Models 360/B/R):

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

- [1] Press **▲** until (Shot 1 **ML**) and (**HD**) flashes.
- [2] Aim at the 1st target, press-and-hold **FIRE** (**1230 HD**).
- [3] (Shot 2 **ML**) Aim at 2nd target, press-and-hold **FIRE** (**2345 HD**).
- [4] (**5675 HD ML**), keep pressing **▼** to scroll through (**5680 SD VD INC AZ**) from shot 1 to shot 2.



## Measure Missing Line (Models 200/B):

Follow the same steps above. You need to position yourself where shot 1 and 2 are made looking in the same direction with a clear line of site to both targets. The exception is the VD solution will always be accurate no matter which direction shot 1 and 2 are taken.

