# TruPulse® Quick Reference Field Guides

TruPulse® Models: 200, 200 B, 360, 360 B and 360 R

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Measurably Superior®

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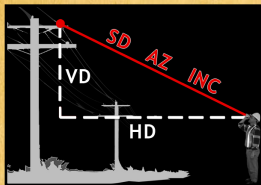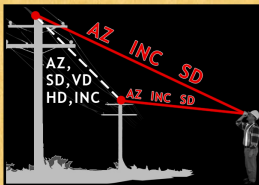www.youtube.com/lasertechpro
for TruPulse® Training Videos

Fire Button
Up Button
Down Button

TruPulse® 200/B, 360/B

Fire Button
Down Button
Up Button

TruPulse® 360 R

# TruPulse® Values & Key Code:

## 1-Shot HD Mode:



SD  AZ  INC
VD
HD

## 2-Shot Missing Line:



AZ  INC  SD
AZ, SD, VD, HD, INC
AZ  INC  SD

## 2-Shot Height:



SD  INC
VDt
VDb
SD  INC

## 3-Shot Height:



INC
HT  HD
INC
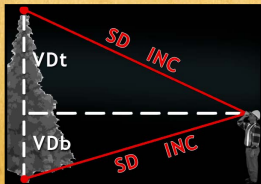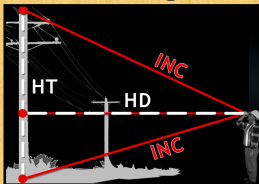
**Measured by TruPulse:**
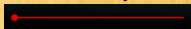


**Calculated by TruPulse:**



**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
($Sc_oPE$) = In-scope Top
(**HD**) = In-scope Bottom

## Change Units of Measurement:

**[1]** Press-and-hold ▼ (*Unit5*), 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 ▼ (*Unit5*), then press ▼ again (*bt*).
**[2]** Press ⏻, then press ▼ to scroll through (*bt on*) (*btoFF*).
**[3]** Press ⏻ to choose.

## Change Targeting Mode:

For **Standard Mode**, press-and-hold ▲ (*Std*), then press ⏻.
For **Filter Mode**, press-and-hold ▲ (*Std*), press ▲ (*FLt*), then press ⏻.
For **Farthest Mode**, press-and-hold ▲ (*Std*), press ▲ twice (*FAr*),
then press ⏻.  For **Closest Mode**, press-and-hold ▲ (*Std*), press ▼ twice
(*CLo*), then press ⏻.  For **Continuous Mode**, press-and-hold ▲ (*Std*),
press ▼ (*Con*), 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 ▼ (𝘜𝘯ᵢ 𝘵𝘚), press ▼ until (𝘟 𝘼𝘯𝘨)  [1]  [5]

**[2]** Press 🔥 (𝘥𝘌𝘊𝘓𝘯), press ▲ (𝘔𝘈𝘊𝘈𝘓), press 🔥.

**[3]** (𝘯𝘰)(𝘔𝘈𝘊𝘈𝘓), press ▲ (𝘺𝘌𝘚)(𝘔𝘈𝘊𝘈𝘓), press 🔥.  [2]  [6]

**[4]** Face North (𝘊 𝘪 𝘍𝘥), hold in position 1, press 🔥 (𝘊 𝘉 𝘣𝘥).

**[5]** Hold in position 2, press 🔥 (𝘊 𝘑 𝘣𝘥), hold in position 3.

**[6]** Press 🔥 (𝘊 𝘺 𝘜𝘗), hold in position 4, press 🔥 (𝘊 𝘚 𝘳𝘍).  [3]  [7]

**[7]** Hold in position 5, press 🔥 (𝘊 𝘚 𝘳𝘥), hold in position 6.

**[8]** Press 🔥 (𝘊 𝟩 𝘳𝘣), hold in position 7, press 🔥 (𝘊 𝟪 𝘳𝘜).

**[9]** Hold in position 8, press 🔥. If (𝘍𝘈 𝘪𝘓), press 🔥 and  [4]  [8]
repeat steps 4 through 8. If (𝘗𝘈𝘚𝘚), press 🔥 (· · · · **HD**).

## Helpful Tips:

**[1]** Always recalibrate your compass when (**AZ**) flashes.
**[2]** If calibration fails repeatedly, perform the tilt calibration then repeat steps.
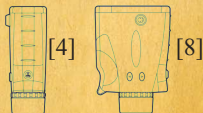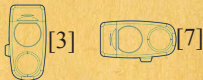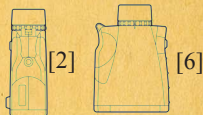
# Calibrate the Tilt Sensor (Models 360/B/R):

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]** Press-and-hold ▼ (*Un.tS*), press ▼ until (*InC*).
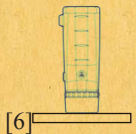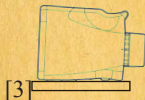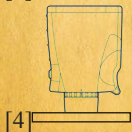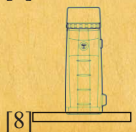
**[2]** Press 🔥 (*no*)(*CAL*), press ▼ (*YES*)(*CAL*), press 🔥.

**[3]** (*C1.Fd*), hold in position 1, press 🔥 (*C2.dn*).

**[4]** Hold in position 2, press 🔥 (*C3.bc*).

**[5]** Hold in position 3, press ▼ (*C4.UP*).

    [Hang 360 R buttons over an edge and press 🔥.]

**[6]** Hold in position 4, press 🔥 (*C5.rF*).

**[7]** Hold in position 5, press 🔥 (*C6.rd*).

**[8]** Hold in position 6, press 🔥 (*C7.rb*).

**[9]** Hold in position 7, press 🔥 (*C8.rU*).

**[10]** Hold in position 8, press 🔥.

If (*FAIL*), press 🔥 and repeat steps 3 through 10.

If (*PASS*), 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 🔥 ( *12.3.0* **HD**).
[3] Press ⏶ to scroll through ( *2.3.4.5* **SD VD INC AZ** ).

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

Always perform on a flat, fairly level surface.

[1] Press-and-hold ⏷ (*Un.it.S*), press ⏷ until (*inc*).
[2] Press 🔥 (*CAL.n*), press ⏷ (*CAL.Y*), press 🔥
[3] (*CAL.1*), hold in position 1, press 🔥 (*CAL.2*).
[4] Rotate 180º to position 2, then press 🔥 (*donE*).
[5] Press 🔥 ( - - - - - **HD**).
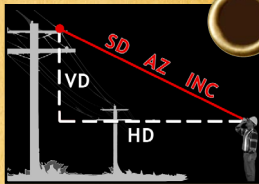


*For TruPulse 360/B/R models only

## 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.



[1]          [2]
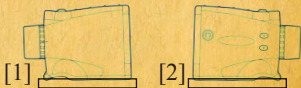
## Measure Height in 3-Shots:

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 🔥 (*1230* **HD**).
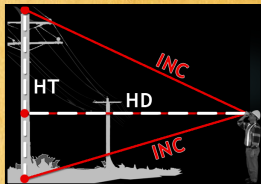[3] (*Ang. 1*) Aim to top, then press-and-hold 🔥.
[4] (*120* **INC**) (*Ang. 2*) Aim to bottom, press-and-hold 🔥, (∙ *10* **INC**) (*283* **HT**).

## Measure Height in 2-Shots:

[1] Press ⬆ until (**VD**), aim at top of target then press-and-hold 🔥 (*260* **VD**)t. Note value.
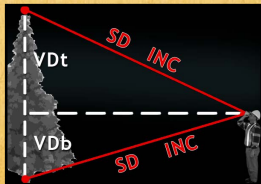[2] Aim at the bottom of the target then press-and-hold 🔥 (∙ *25* **VD**)b. Note value and **HT = VDt - VDb**.



## 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 (*5hot 1* **ML**) and (**HD**) flashes.
[2] Aim at the 1st target, press-and-hold (🔥) (*1230* **HD**).
[3] (*5hot 2* **ML**) Aim at 2nd target, press-and-hold (🔥) (*2345* **HD**).
[4] (*5615* **HD ML**), keep pressing (▼) to scroll through
　　(*5660* **SD VD INC AZ**) from shot 1 to shot 2.
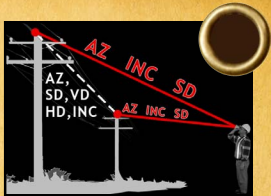
## Measure Missing Line (Models 200/B):

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.