

# “Using New Technology To Improve Cruise Accuracy”

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# Using New Technology: 3 Areas

- **Acresage Determination**
  - GPS Receivers
- **Tree Count**
  - RD1000 BAF Scope
- **Tree height**
  - TruPulse 200, 200X (2D Missing Line)
  - TruPulse 360B, 360R (3D Missing Line)

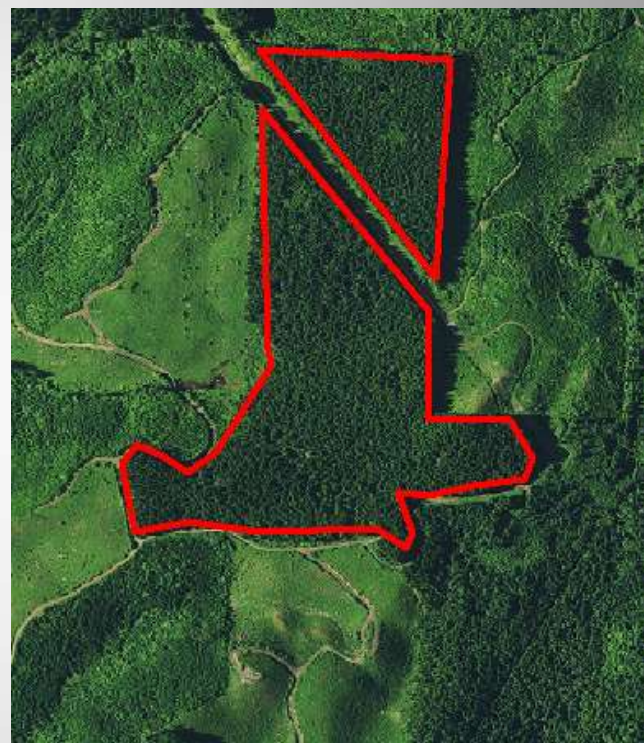
# GPS Accuracy – The Equipment

- **Best: Sub-meter accuracy**
  - MM120
  - Trimble H7
  - SXBlue II GNSS
- **Good: 1-3 meter Accuracy**
  - Garmin GLO
  - MobileMapper 20
- **OK: 2-5 meter accuracy**
  - Nautiz X8



# Determining Unit Acreage

- Use GPS
  - GPS can help you find the cruise unit
  - GPS provides easy, fast acreage
  - Accuracy is usually within a few 10<sup>th</sup> s of an acre





# Tree Count

- **RD1000 BAF Scope**
  - Clearest View of Sample Trees
  - Simple to use. (no little bars)
  - Best Unit under dark canopy
  - \$700 less expensive than Relaskop
  - Stabilizes fast
- **Clean, Calibrated Relaskop**
  - Very versatile
  - Hard to use under dark, dense canopy

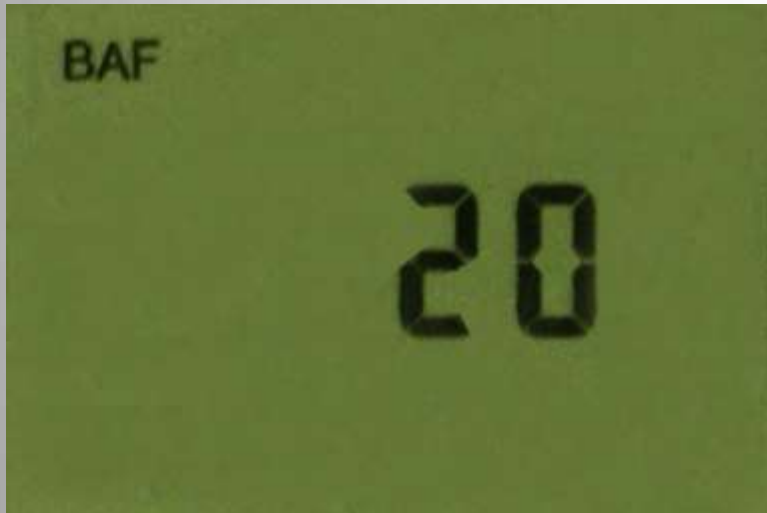


# **RD-1000 Modes of Operation**

- **BAF – Projects Basal Area Factor (BAF 1-127)**
- **IN / OUT – Built-in Limiting Distance calculation.**
- **DIAMETER – Measure diameter of a tree at any point on the bole**
- **HEIGHT / DIAMETER – Height to a specific diameter.**

# BAF – (Basal Area Factor)

**LCD**



Measurement bar length adjusted  
for slope

**Heads Up Display**



# DIAMETER Mode

## LCD



## Heads Up Display

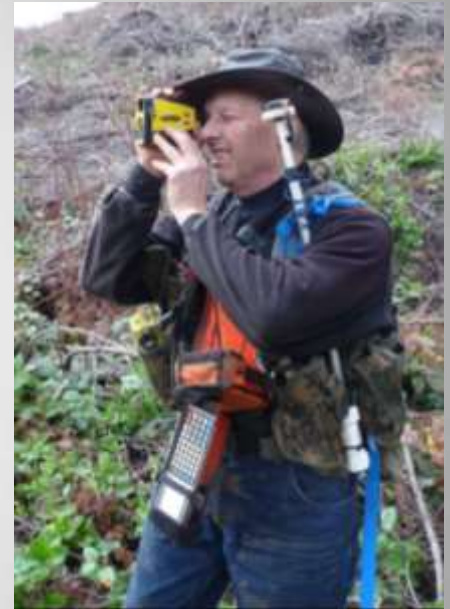
Display shows DIAMETER when the trigger is released





# Measuring Tree Height Accurately

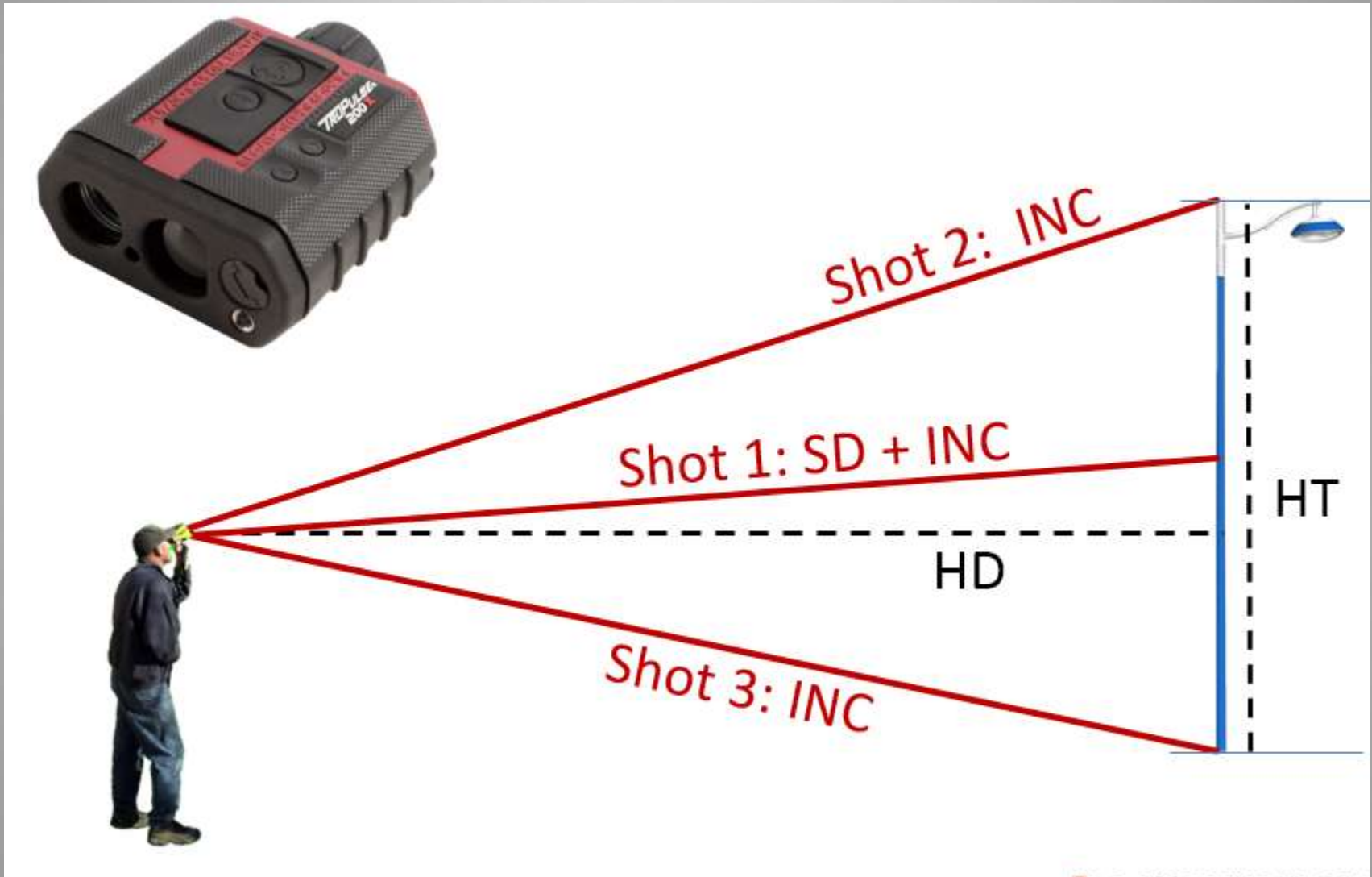
- Laser Rangefinders
- Tree Height Mode
- 2D Missing Line Mode
  - Leaning trees facing you or going away
- 3D Missing Line Mode
  - Leaning trees; any direction



# Laser Technology Laser Rangefinders

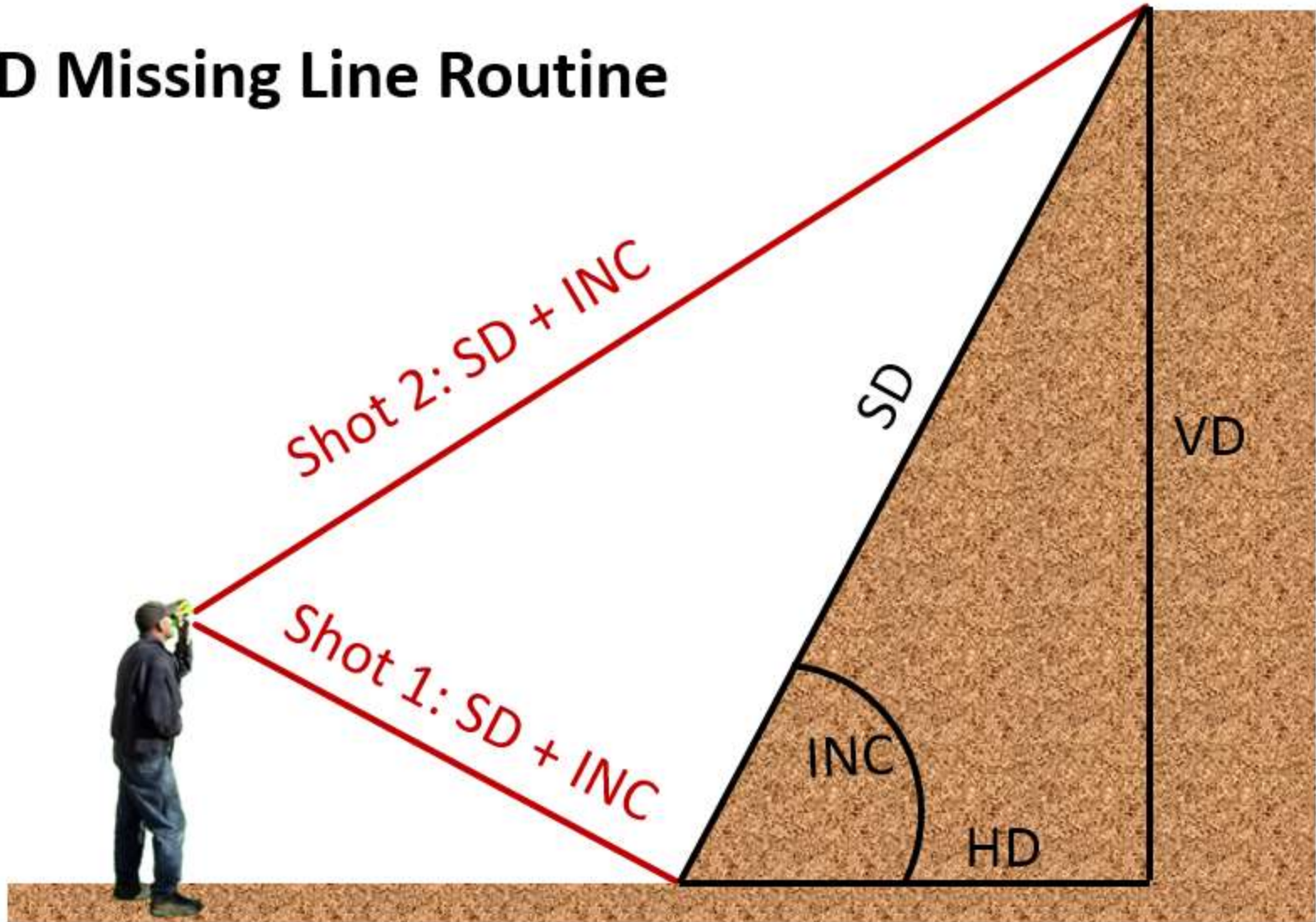


# Three Point Height Routine



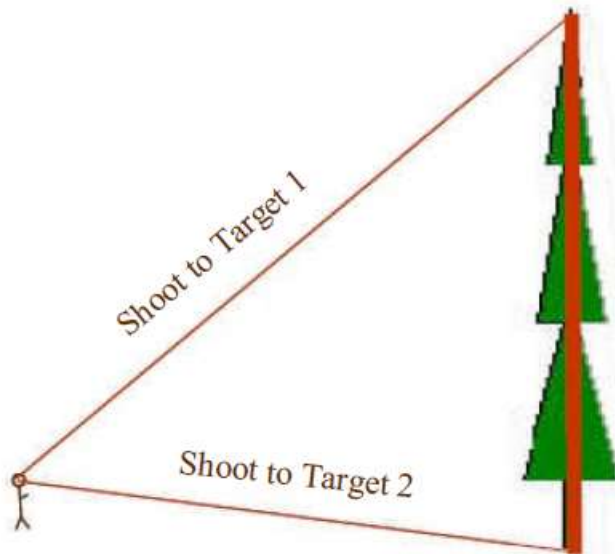
# 2D Missing Line Routine

## 2D Missing Line Routine

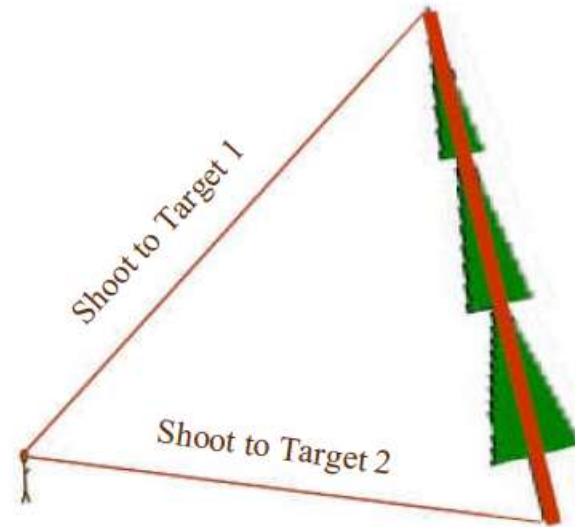




# 3D Missing Line Routine



Tree height is accurate using "Missing Line Mode" on the TruPulse 360B



Tree Height for leaning trees is still accurate using "Missing Line Mode" with the TruPulse 360B

# How To Ruin a Cruise – How Not To

- Relaskop fogged up, dirty, or out of calibration
- Acres by guess, string box, pacing, or sellers acres
- Tree Height to wrong point on bole of tree
- Tree Height Classified in number of logs
- Use RD1000 for in/out trees and Tree Diameters
- Acres by GPS traverse (internal or external traverse)
- Tree Height to proper point on bole of tree
- Tree Height measured to nearest foot

# Conclusion

- If you want to save money – Don't Cruise
- If you want to MAKE money, Measure Acres, Trees, and Tree Count accurately
- Our instruments are accurate to Plus/Minus 2%
- Use the latest technology- it's easy

# Thanks!

**For all your Cruises, may your:**

- **Equipment last forever**
- **Batteries never die**





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