



PRODUCT SOLUTIONS



TruPulse® Laser Rangefinders
MapStar® TruAngle® II

Measure Distance, Inclination,
Azimuth, Horizontal, and Vertical Angles
Height & Width, Slope, and Missing Line

PROFESSIONAL MEASUREMENT



► 2D LASERS DISTANCE AND TILT

LTI's dedication to high quality and unmatched innovation has allowed our products to be used for a wide range of professional field measurement applications: from measuring distances, height or slope values, to calculating a remote offset position with GNSS.



► TRUPULSE® LASER RANGEFINDERS

Withstands the test of time and has been revamped to offer new enhancements and improvements. These highly sophisticated and easy-to-operate laser rangefinders use our core, reflectorless technology with TruTargeting performance built-in to every unit. They offer the user a choice of four targeting modes and displays all data values right inside the sighting scope.



TRUPULSE® L2



TRUPULSE® 200i



TRUPULSE® 200X

- » Faster acquisition and greater accuracy
- » Physical, visual, and audible feedback on target acquired
- » Auto calculates horizontal & vertical distance, height, and 2D missing line values

- » Increased range & inclination accuracy
- » Ultra-bright adjustable display for any lighting conditions
- » Faster acquisition and greater accuracy, better target discrimination, & rugged

- » Achieves the highest distance and inclination accuracy
- » Offers adjustable LED display brightness
- » Withstands conditions with rugged, waterproof housing

Laser Rangefinder Targeting Modes

- » **Closest:** distinguishes near and far objects and identifies the closest target
- » **Farthest:** distinguishes near and far objects and identifies the farthest target
- » **Continuous:** provides constant updates while shooting multiple targets
- » **Filter:** measures through dense foliage by recognizing only a highly reflective target

APPLICATIONS



ELECTRIC UTILITIES

- » Span, Sag, and Tension
- » GIS Mapping
- » Vegetation Management
- » Pole Inventory



TELECOMMUNICATION

- » Site Inspection
- » Antenna Height
- » Obstruction Mapping
- » Material Estimate



FORESTRY

- » Tree Heights
- » Slope Grades
- » Stem Mapping Surveys
- » Ecosystem Management



3D LASERS + HORIZONTAL, ANGLES, AZIMUTH

TruPulse® 360i

- Auto calculates horizontal & vertical distance, height and 3D missing line values
- Calibrates with a simple field routine that can be completed in less than a minute
- Produces accurate and repeatable azimuth results regardless of the tilt or pitch you use to aim the laser



TRUPULSE® 360i



TruPulse® 200X + MapStar® TruAngle® II

- System measures distance, inclination, and horizontal angle values with the capability to capture X,Y, and Z coordinates for 3D mapping
- Provides needed functionality and accuracy at an affordable price
- Integrate in a split GPS Pole
- Survey tripod mounting options

TruAngle® II

- Provides the needed horizontal accuracy unaffected by magnetic interfaces
- Pivot the laser rangefinder a full tilt $\pm 90^\circ$ while maintaining the rotary encoder level
- Maintains horizontal angle accuracy by using the Level Aid Alert with LED indicators



MEASUREMENT SOLUTIONS

HD = HORIZONTAL DISTANCE

INC = INCLINATION

SD = SLOPE DISTANCE

ML = MISSING LINE

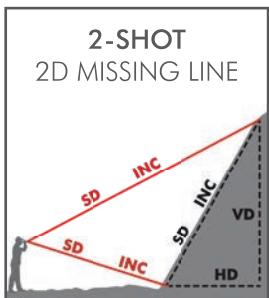
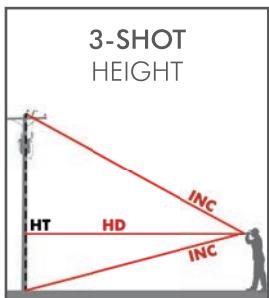
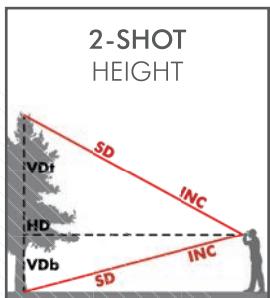
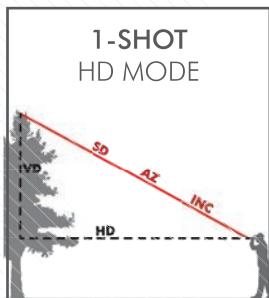
AZ = AZIMUTH

HT = HEIGHT

VD = VERTICAL DISTANCE

Calculated by TruPulse

Measured by TruPulse



CONSTRUCTION

- Stockpile Volumes
- Site Inspection
- Crane Positioning
- Face Profiling



PUBLIC WORKS

- Land Use Planning
- Facility Mapping
- Asset Inventory
- Emergency Response



GIS MAPPING

- Remote Offset Locations
- Site Inspection
- Wetland Mapping/Delineation
- Natural Resources



PRODUCT SPECIFICATIONS

2D LASERS	TruPulse® L2	TruPulse® 200i	TruPulse® 200X
Distance Accuracy	± 0.5 m at < 200 m (±1.6 ft at < 656 ft) ± 1 m at 200 m - 1500 m (± 3 ft at 656 ft - 4921 ft)	0.1 m < 1,000 m (4 in < 3,280 ft) and to a High-Quality target 0.2 m > 1,000 m (8 in > 3,280 ft) or to a Low-Quality target	±1.6 in (±4 cm) typical targets <400m; ±6 inches (±15cm) typical targets < 1000m ±1.6 in (±4 cm) to ±1 ft (±30 cm) to distant and weak targets
Ranging Performance	5 m - 2195 m (16 ft - 7,200 ft)	50 cm - 2,500 m (20 in - 8,202 ft)	0 m to 2,500 m (0 to 8,202 ft)
Inclination Accuracy	± 0.5° Relative @ 0° to ± 30° ± 1.0° @ ± 30° to ± 90°	0.1° @ 0° to ±30° 0.2° @ ±30° to ±90°	± 0.1° Typical
Wireless Connectivity / App Compatibility	No	Windows® + iOS + Android®	Windows® + iOS + Android®
Scope Magnification / In-Scope Display Type	5X/PDLC Display	5X/LED HUD	7X/LED

3D LASERS	TruPulse® 360i	TruPulse® 200X & MapStar® TruAngle® II
Measures Azimuth with TruVector Compass Technology	Yes	No
Distance Accuracy	0.1 m < 1,000 m (4 in < 3,280 ft) and to a High-Quality target 0.2 m > 1,000 m (8 in > 3,280 ft) or to a Low-Quality target	±1.6 in (±4 cm) typical targets <400m; ±6 inches (±15cm) typical targets < 1000m ±1.6 in (±4 cm) to ±1 ft (±30 cm) to distant and weak targets
Ranging Performance	50 cm - 2,500 m (20 in - 8,202 ft)	0 m to 2,500 m (0 to 8,202 ft)
Inclination Accuracy	0.1° @ 0° to ±30° 0.2° @ ±30° to ±90°	TruPulse 200X : ± 0.1° Typical TruAngle II: Maintains ± 0.3° RMS accuracy up to 10° tilt
Angle Accuracy	N/A	Horizontal +/- 0.1°
Azimuth Accuracy	< 1.0° RMS	N/A
Wireless Connectivity / App compatibility	Windows® + iOS + Android®	TruAngle II is Android™ + iOS
Scope Magnification / In-Scope Display Type	5X/LED HUD	7X/LCD