

 **LASER TECH**

PRODUCT SOLUTIONS



TruPulse® Laser Rangefinders
MapStar® TruAngle® II

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

PROFESSIONAL MEASUREMENT

 **LTI**

▶ 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 display measured data values right inside the sighting scope.



TRUPULSE® L2

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



TRUPULSE® 200i

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



TRUPULSE® 200X

- 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 + AZIMUTH, HORIZONTAL ANGLE

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
- Recognizes conditions that will affect the reliability of the compass accuracy and prompts you to recalibrate



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
- MapStar Laser Positioning system integrates with GNSS receivers and popular GIS apps for data collection and remote laser offset mapping
- Provides needed functionality and accuracy at an affordable price

TruAngle® II

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



MEASUREMENT SOLUTIONS

HD = HORIZONTAL DISTANCE
ML = MISSING LINE

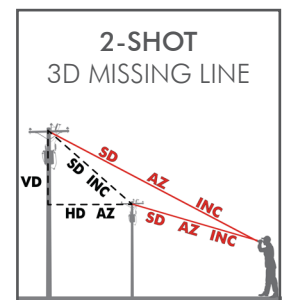
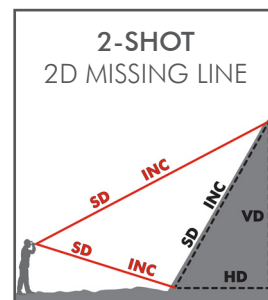
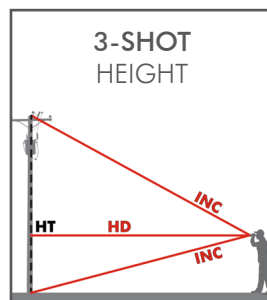
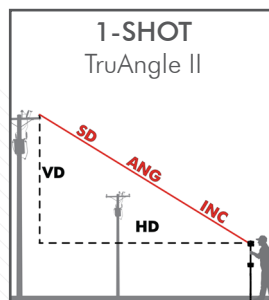
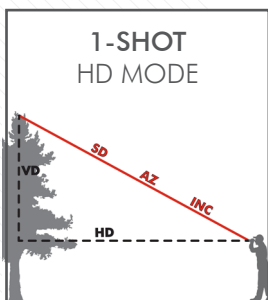
INC = INCLINATION
AZ = AZIMUTH

SD = SLOPE DISTANCE
HT = HEIGHT

ANG = HORIZONTAL ANGLE
VD = VERTICAL DISTANCE

Calculated by TruPulse

Measured by TruPulse



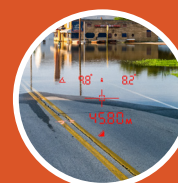
CONSTRUCTION

- 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	± 50 cm (1.6 ft)	± 10 cm (4 in)	± 4 cm (1.5 in)
Max Range to Reflective Targets	2195 m (7,200 ft)	2500 m (8,202 ft)	2500 m (8,202 ft)
Inclination Accuracy	± 0.5° Relative	0.1° @ 0° to ±30° 0.2° @ ±30° to ±90°	± 0.1° Typical
Wireless Communication / App Compatibility	No	Windows® + iOS + Android®	Windows® + iOS + Android®
Scope Magnification / In-Scope Display Type	5X/PDLC Display	5X/LED	7X/LED
Compatible with TruAngle II	No	Yes	Yes

3D LASERS	TruPulse® 360i	TruPulse® 200X & MapStar® TruAngle® II
Measures Azimuth with TruVector Compass Technology	Yes	No
Distance Accuracy	± 10 cm (4 in)	± 4 cm (1.5 in)
Max Range to Reflective Targets	2500 m (8,202 ft)	2500 m (8,202 ft)
Inclination Accuracy	0.1° @ 0° to ±30° 0.2° @ ±30° to ±90°	± 0.1° Typical
Horizontal Angle Accuracy	N/A	+/- 0.1°
Azimuth Accuracy	< 1.0° RMS	N/A
Wireless Comm / App compatibility	Windows® + iOS + Android®	Android® + iOS
Scope Magnification / In-Scope Display Type	5X/LED	7X/LED