



PRODUCT SOLUTIONS



TruPulse® Laser Rangefinders

TruPoint™ Laser Rangefinders

MapStar® TruAngle®

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® 200L

- ▶ Produces good distance and inclination accuracy
- ▶ Flexible Height and 2D Missing Line routines
- ▶ Easy-to-use, icon driven display



TRUPULSE® 200

- ▶ Produces better distance and inclination accuracy
- ▶ Increased scope magnification and field of view
- ▶ Transfers data via serial port or with Bluetooth® wireless technology



TRUPULSE® 200X

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

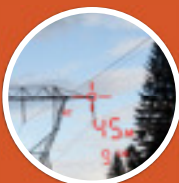
▶ TRUPOINT™ 200h

The TruPoint 200h advances laser measurement technology in the field by combining pulse and phase technology. Produce survey-grade accuracy with phase laser technology, with on-board data storage and calculations.

- ▶ Captures highly accurate short-range measurements, indoors or outdoors
- ▶ Ensures targeting in every situation with bright a HUD LED display
- ▶ With TruTargeting technology, this hybrid laser provides the best accuracy and acquisition distance to any given target

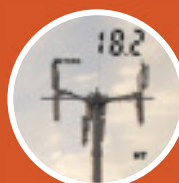


APPLICATIONS



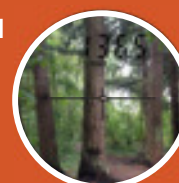
ELECTRIC UTILITIES

- ▶ 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® 360° & 360° R

- › Provides full AZ + INC + SD measurement capability
- › Solves 3D missing line calculations between two remote points
- › Integrates with GPS/GNSS for efficient GIS data capture



TRUPULSE® 360°



TRUPULSE® 360° R



TruPulse® 200X + MapStar® TruAngle®

- › System measures distance, inclination, and horizontal angle values with the capability to capture X,Y, and Z coordinates for 3D mapping
- › Bluetooth® Encoder Loop feature eliminates a cable by adding the horizontal angle measurement to the laser's data string
- › Provides needed functionality and accuracy at an affordable price



TruPoint™ 300

The TruPoint 300 is a small, lightweight and compact total station ideal for use in applications such as Construction, BIM, Pole Audit, Indoor Stockpile, and many more.

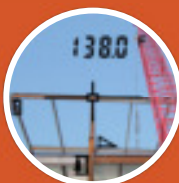
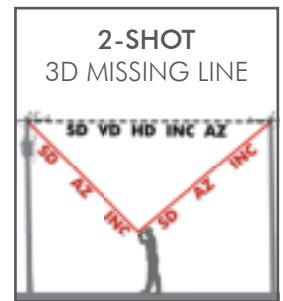
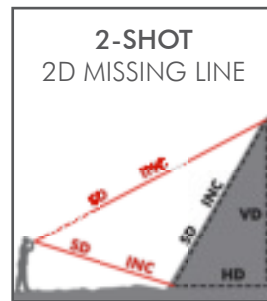
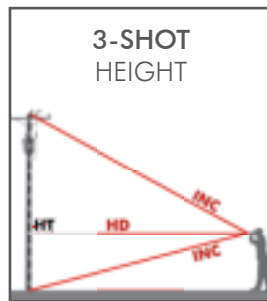
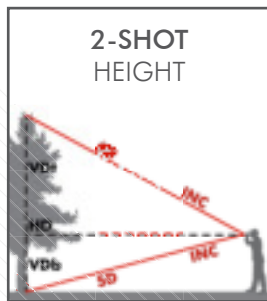
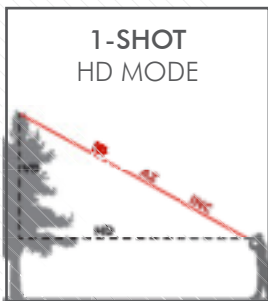
- › Measures distance, inclination, and horizontal angles for X, Y, Z measurements
- › Obtains missing line measurements using on-board routines
- › Operates easily with step-by-step icons and a color display screen
- › Provides high quality, accurate, easy-to-see targets with 4X zoom camera

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

Laser Rangefinder Targeting Modes

- › **Closest:** distinguishes near and far objects and identifies the closet 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

▶ PRODUCT SPECIFICATIONS

2D LASERS	TruPulse® 200L	TruPulse® 200	TruPulse® 200X	TruPoint™ 200h
Distance Accuracy to Typical Targets	± 0.5 m (1.6 ft)	± 0.2 m (8 in)	± 4 cm (1.5 in)	Pulse ± 2-4 cm (0.8 – 1.5 in) Phase: ± 1.5 mm (0.05 in)
Max Range to Reflective Targets	1750 m (5,740 ft)	2000 m (6,560 ft)	2500 m (8,200 ft)	Pulse: 500 m (1,640 ft) Phase: 100 m (328 ft)
Inclination Accuracy	± 0.5° Relative	± 0.25° Typical	± 0.1° Typical	± 0.1° Typical
Wireless Communication / App Compatibility	No	Windows® + Android®	Windows® + iOS + Android®	Bluetooth® Classic & BLE
Scope Magnification / In-Scope Display Type	4X/LCD	7X/LCD	7X/LED	2X/LED
3D LASERS	TruPulse® 360°	TruPulse® 360° R	TruPulse® 200X & MapStar® TruAngle®	TruPoint™ 300
Measures Azimuth with TruVector Compass Technology	Yes	Yes	No	No
Distance Accuracy to Typical Targets	± 0.2 m (8 in)	± 0.2 m (8 in)	± 4 cm (1.5 in)	± 1 mm (0.04 in)
Max Range to Reflective Targets	2000 m (6,560 ft)	2000 m (6,560 ft)	2500 m (8,200 ft)	0.05 up to 300 m (0.16 to 1000 ft)
Inclination Accuracy	± 0.25° Typical	± 0.25° Typical	± 0.1° Typical	± - 0.1° Typical
Angle Accuracy	N/A	N/A	Horizontal +/- 0.1°	+/- 0.1° Horizontal and Vertical
Azimuth Accuracy	+/- 0.5° RMS; Typical	+/- 0.5° RMS; Typical	N/A	N/A
Wireless Comm / App compatibility	Windows® + Android®	Windows® + Android®	Windows® + Android® + iOS	Bluetooth® Smart, WLAN
Scope Magnification / In-Scope Display Type	7X/LCD	7X/LCD	7X/LCD	Point finder with 4x zoom camera and red-dot laser