

LASER MAPPING

WITH ARCGIS® APPS

HIGH-ACCURACY MAPPING

The need for real-time, high-accuracy remote GNSS positioning is thriving. Collecting highly accurate horizontal and vertical data is achievable in some areas, but what about all the places that are hard-to-reach, unsafe, or environments where GNSS is impaired? Now there is a solution: Welcome to precision laser mapping!

The Power of Three

Achieve centimeter GNSS-level accuracy in unfriendly environments on assets located in alleyways, under trees and even in the middle of a busy street with a combination of hardware and apps from the leaders in the industry.



ArcGIS® Apps

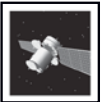


Laser rangefinders



GNSS receivers

Industry Terms



GNSS (Global Navigation Satellite System)

Includes GPS and all global constellations such as Glonass, Galileo, and BeiDou



LTI Laser Rangefinder

Professional-grade, highly accurate, point-and-shoot handheld laser measurement device



RTK (Real-Time Kinematic)

Real-time, cm-level GNSS positioning using an RTK base or network



LTI MapStar® TruAngle®

Encoder calculates a turned horizontal angle that can be referenced to any desired point or direction



BYOD (Bring Your Own Device)

The latest revolution in mapping where all your data collection can be done on your smartphone or tablet



GNSS

LASER

BYOD

Search for
"Eos® Tools Pro"



Search for
"ArcGIS® Collector" or
"ArcGIS® Field Maps"



PROFESSIONAL MEASUREMENT

LASER TECH

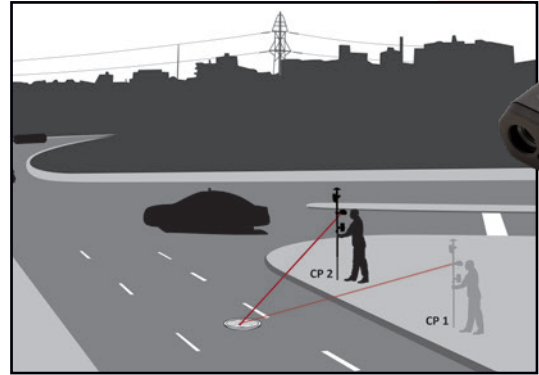
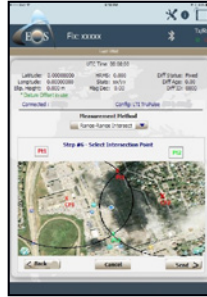


The type of LTI laser you choose to pair up with Eos' GNSS device will depend upon how you collect remote position data of features you cannot occupy. Below are three laser mapping workflows, available using Eos' Tools Pro app, that seamlessly integrate with Esri's ArcGIS Collector or ArcGIS Field Maps for iOS.

RANGE-RANGE/INTERSECT

LTI Laser: TruPulse® 200X

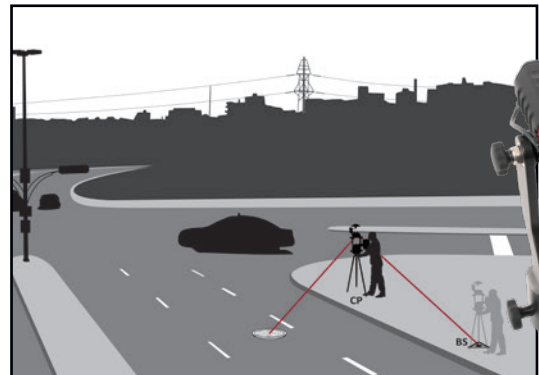
- Occupy CP1 in safe area and record your position with GNSS
- Aim and shoot remote feature
- Occupy CP2 in a safe area and record your position with GNSS
- Aim and shoot to remote feature
- Remote position is calculated & displayed in Collector



RANGE-BACKSIGHT

LTI Laser: TruPulse® 200X + TruAngle®

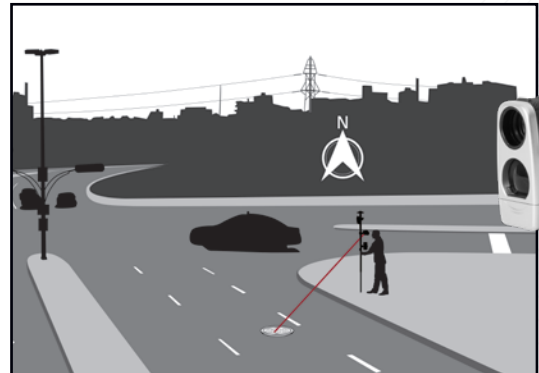
- Occupy BS point and record your position with GNSS
- Occupy CP2 and record your position with GNSS
- Aim and shoot position to BS
- Aim and shoot to remote feature
- Remote position is calculated & displayed in Collector



RANGE-AZIMUTH

LTI Laser: TruPulse® 360°/R

- Locate yourself in a safe area
- Record your position with GNSS
- Aim and shoot to feature
- Manually enter laser measurement values



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