

LASER MAPPING

WITH **ARC GIS®** FIELD MAPS

▶ 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 laser offset mapping!

The Power of Three

Maintain RTK-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® Field Maps

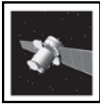


Laser Rangefinders



GNSS Receivers

Industry Terms



GNSS

Global Navigation Satellite System (GNSS) includes not just GPS but also all global GNSS constellations (e.g., GLONASS, Galileo, BeiDou, QZSS).



LTI Laser Rangefinder

A professional-grade and highly accurate point-and-shoot laser measurement device.



RTK Corrections

Real-Time Kinematic (RTK) corrections from a base station or network enable centimeter-level GNSS positioning with Eos receivers.



LTI MapStar® TruAngle® II

An encoder calculates a turned horizontal angle, which provides the best possible accuracy when aiming at a target.



BYOD

Bring Your Own Device (BYOD) is a movement to democratize technology access across the smartphones and tablets your crews already use. Laser mapping is supported on all iOS and Android mobile devices.



Eos GNSS Receiver

LTI Laser Rangefinder

BYOD (Android or iOS)



Search for
"Eos Tools Pro"



Search for
"ArcGIS Field Maps"



PROFESSIONAL MEASUREMENT

LASER TECH



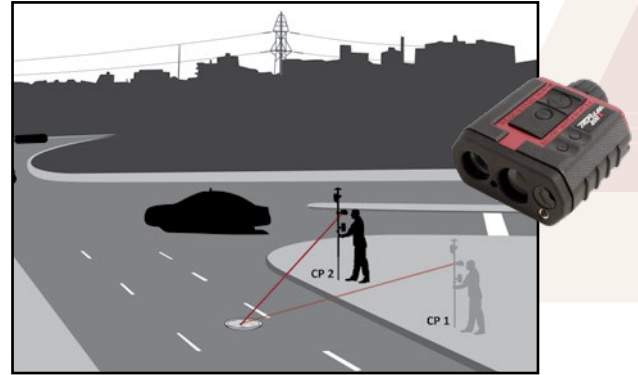
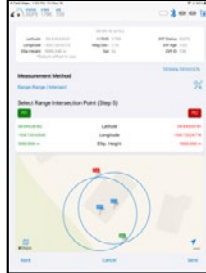


The type of LTI laser you choose to pair up with your Eos GNSS receiver will depend upon how you collect remote position data of features you cannot occupy. Below are three laser mapping workflows, available using the Eos Tools Pro app, that seamlessly integrate with Esri's ArcGIS Field Maps.

RANGE-RANGE/INTERSECT

LTI Laser: TruPulse® 200X

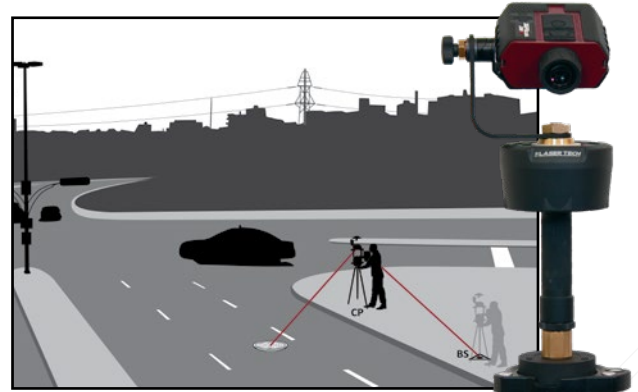
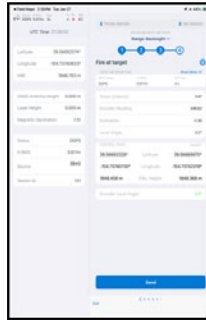
- Occupy CP1 in safe area and record your position with GNSS
- Aim and shoot to remote feature
- Occupy CP2 in a safe area and record your position with GNSS
- Aim and shoot to remote feature
- Remote position is calculated & displayed in Field Maps



RANGE-BACKSIGHT

LTI Laser: TruPulse® 200X + TruAngle® II

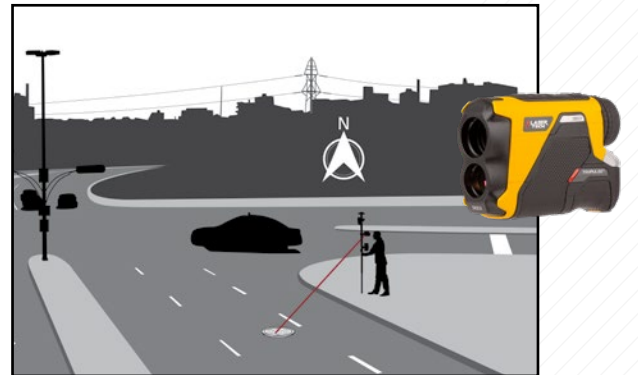
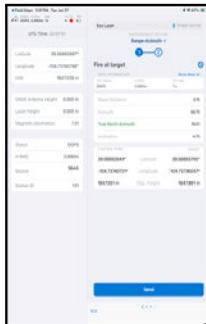
- Occupy BS point and record your position with GNSS
- Occupy CP2 and record your position with GNSS
- Aim and shoot to BS
- Aim and shoot to remote feature
- Remote position is calculated & displayed in Field Maps



RANGE-AZIMUTH

LTI Laser: TruPulse® 360i

- Locate yourself in a safe area
- Record your position with GNSS
- Aim and shoot to feature
- Remote position is calculated and displayed in Field Maps



Contact your authorized LTI or Eos Positioning Systems dealer today.
Visit www.lasertech.com or www.eos-gnss.com to be connected.