



[Eos Positioning Systems]



## Eos Locate™ for ArcGIS Collector

Map buried assets with submeter or centimeter accuracy

*Now compatible with ArcGIS Field Maps!*



## Eos Locate™ for ArcGIS Collector

Map buried assets with submeter or centimeter accuracy

Eos Locate™ for ArcGIS Collector is the world's first real-time, high-accuracy, underground-mapping solution for utilities using ArcGIS Collector. With Eos Locate™ for Collector, utilities can map their buried infrastructure (e.g., electric, gas, water, telecommunications assets) with submeter or centimeter accuracy. All a field worker needs is an Eos Arrow GNSS receiver, Collector, and a compatible locator device.



### BETTER SAFETY

Ditch blind digging. Prevent liabilities to your constituents, employees, and third parties by keeping accurate records of underground pipes, cables, and wires.



### MORE EFFICIENCIES

Roll just one truck, but get the value of rolling two. Consolidate your underground locate trips with your GPS data collection. All your GNSS and locate data is sent to ArcGIS Online in the push of one button!



### PREPARE FOR 3D

Pave the way for the future of work — by collecting what's under the pavement. 3D asset management and augmented reality will require integrated depth of cover and precise elevations.

### KEY FEATURES

- Map buried assets with submeter or centimeter accuracy.
- Single-user setup allows for simultaneous locate and GPS-mapping workflows.
- Exclusively compatible with ArcGIS Collector, Arrow GNSS receivers and leading utility locator devices.
- Simple solution design takes advantage of the intuitive iOS platform.

### Who is this solution recommended for?

- Electric utilities
- Gas utilities
- Pipeline operators
- Telecommunications
- Ports
- Co-Ops
- Water utilities
- Municipalities
- Parks and zoos
- Campuses

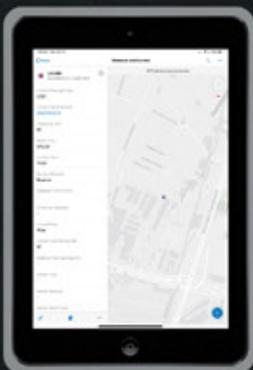
### FOUR ERGONOMIC CONFIGURATIONS

1. Chestpack with range pole (for use with iPad/iPad mini)
2. Safety vest with range pole (typical for iPhone use)
3. Receiver in pouch (belt clip/shoulder strap) with soft hat (typical for iPhone use)
4. Survey range pole (required for centimeter)

### Required Technology

- Eos Arrow GNSS receiver (any model)
- Eos Tools Pro (free iOS app; latest version)
- ArcGIS Collector or ArcGIS Field Maps (latest versions)
- iOS device (iPad, iPhone)
- Vivax-Metrotech vLoc Series of locator devices\*

\* Additional devices will be supported soon. Contact Eos for details.



[WWW.EOS-GNSS.COM](http://WWW.EOS-GNSS.COM)



[Eos Positioning Systems]

COLLECT POINTS IN GNSS-IMPAIRED ENVIRONMENTS

# RTK LASER MAPPING

For ArcGIS Collector and ArcGIS Field Maps on iOS

ARROW SERIES

 EOS POSITIONING SYSTEMS

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 Made in Canada

[WWW.EOS-GNSS.COM](http://WWW.EOS-GNSS.COM)

# RTK LASER MAPPING WITH COLLECTOR FOR ARCGIS®

## High-Accuracy Mapping Where RTK Does Not Work

The need for real-time, high-accuracy GNSS positioning is growing. Regulatory requirements on spatial data accuracy is increasing and within some industries, nothing less than the utmost precision is acceptable. Collecting highly accurate horizontal and vertical data is achievable in some areas, but what about all the places where RTK doesn't work? Now there is a solution: Welcome to RTK laser mapping!

## The Power of Three

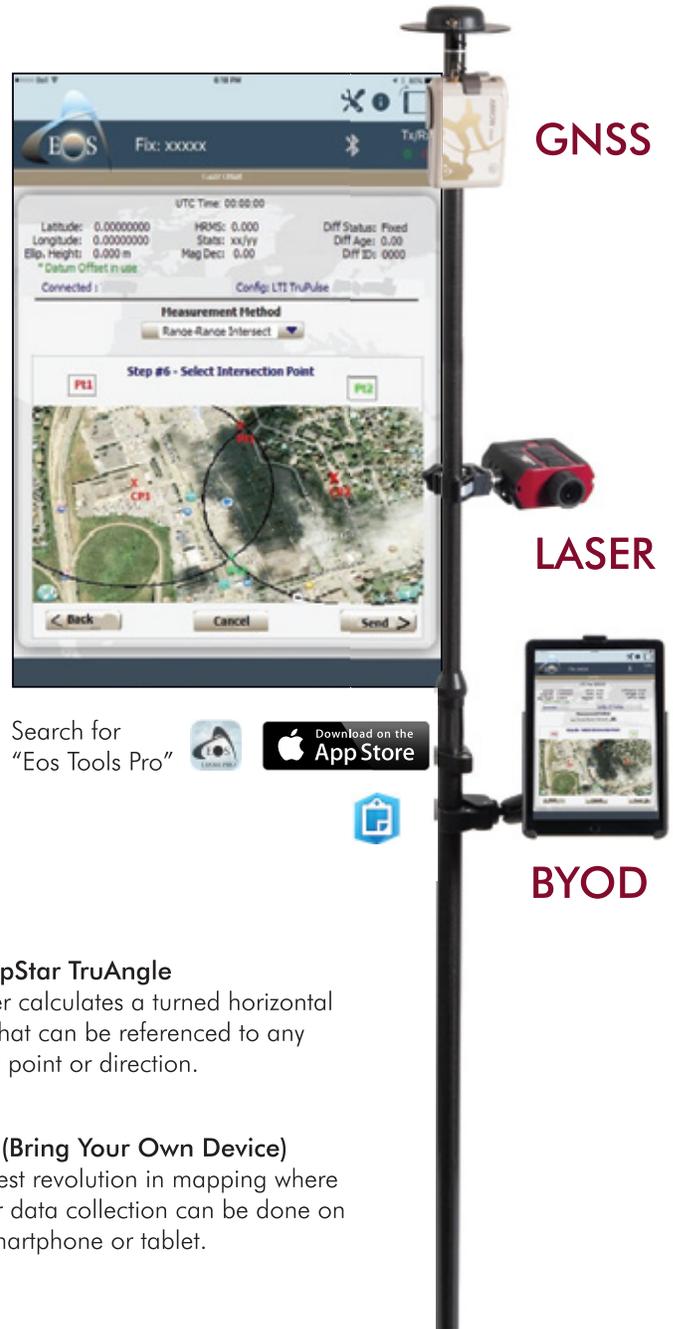
Achieve RTK-level accuracy in unfriendly environments on assets located in alleyways, under trees and even in the middle of a busy street with a combination of hardware and apps from the leaders in the industry.

 **esri** The leaders in GIS software for the field and office

The leaders in high-accuracy GNSS receivers for BYOD



 **LASER TECHNOLOGY** The leaders in high-accuracy laser rangefinders and encoders



**GNSS**

**LASER**

**BYOD**

## 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



**LTI MapStar TruAngle**  
Encoder calculates a turned horizontal angle that can be referenced to any desired point or direction.



**RTK (Real-Time Kinematic)**  
Real-time, cm-level GNSS positioning using an RTK base or network



**BYOD (Bring Your Own Device)**  
The latest revolution in mapping where all your data collection can be done on your smartphone or tablet.

Search for "Eos Tools Pro"



Download on the App Store



# RTK LASER MAPPING WITH COLLECTOR FOR ARCGIS®



## Laser Mapping Workflows

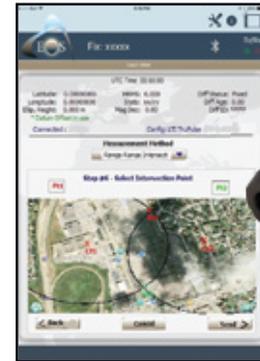
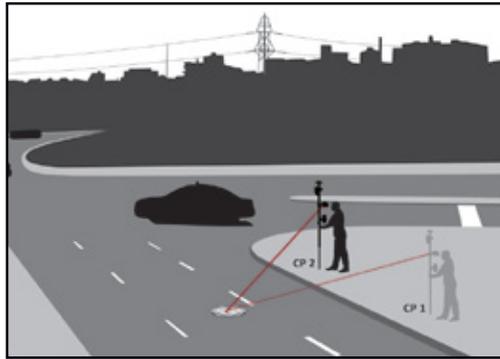
The type of LTI laser you choose to pair up with Eos' GNSS device will depend upon how you collect remote position data of features you cannot occupy. Below are three laser workflows, available using Eos' Tools Pro app, that seamlessly integrate with Esri's Collector.

### Range-Range

**LTI Laser:** TruPulse 200X

**Eos/Collector Workflow Steps:**

1. Occupy CP1 in safe area and position it with GNSS
2. Aim and shoot remote feature
3. Occupy CP2 in a safe area and position it with GNSS
4. Aim and shoot to remote feature

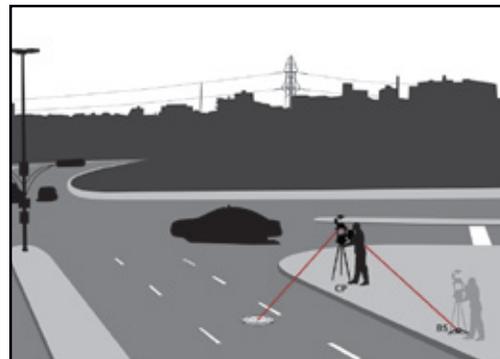


### Range-Backsite

**LTI Laser:** TruPulse 200X + TruAngle

**Eos/Collector Workflow Steps:**

1. Occupy BS point and record your position with GNSS
2. Occupy CP2 and record your position with GNSS
3. Aim and shoot position to BS
4. Aim and shoot to remote feature

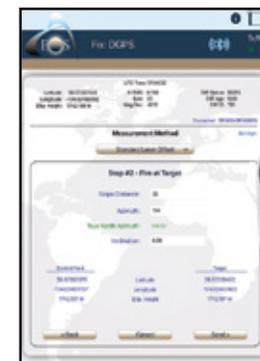
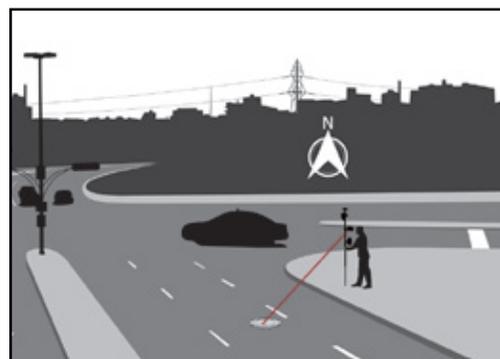


### Range-Azimuth

**LTI Laser:** TruPulse 360/R

**Eos/Collector Workflow Steps:**

1. Locate yourself in a safe area
2. Record your position with GNSS
3. Aim and shoot
4. Manually enter





# ARROW SERIES

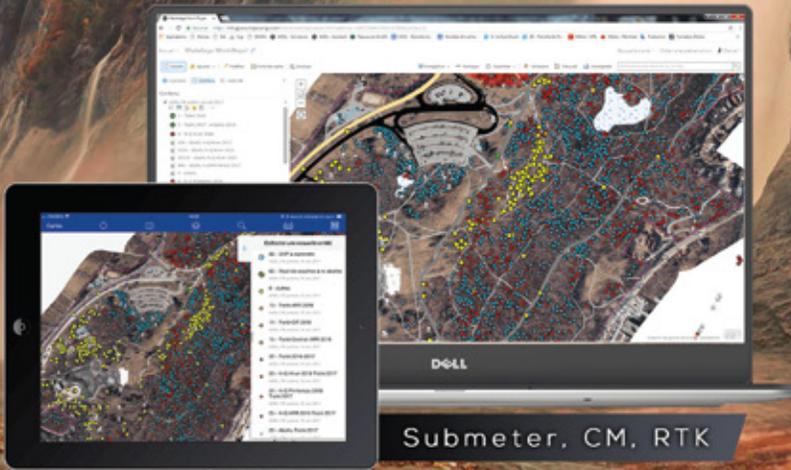
High Accuracy GNSS Receivers  
For Real-Time Location  
On Any Device



**ARROW 100**  
Submeter & Subfoot GNSS



**ARROW GOLD**  
1 cm RTK with SafeRTK™



Submeter, CM, RTK

[WWW.EOS-GNSS.COM](http://WWW.EOS-GNSS.COM)

Made in Canada 