



Laser Offset Mapping Guide for Collector

Laser Offset Mapping for Collector

Contents

Intro.....	1
Required Minimum Firmware and App Versions.....	1
Creating Your Feature Attributes in ArcGIS Pro.....	1
Configuring Collector for ArcGIS to Interact with Eos Tools Pro.....	2
Step 1: Configure Eos Tools Pro for Orthometric Heights	2
Step 2: Configure Eos Tools Pro as the Laser Offset Measurement Source in Collector	5
Step 3: Setting the TruPulse 200X.....	5
Step 4: Setting the MapStar TruAngle	6
Step 5: Configure Laser Offset Settings in Eos Tools Pro	7
Laser Offset Workflows: Three Options.....	11
Workflow 1: Standard Laser Offset.....	11
Workflow 2: Range-Range/Intersect	17
Workflow 3: Range-Backsight	27

Intro

This guide is intended to help you to learn how to configure ArcGIS, Collector for ArcGIS® and [Eos Tools Pro](#) so you can begin to use two location-capture solutions from Eos Positioning Systems: laser offsets and orthometric heights. Before beginning, make sure you have the required firmware and software versions.

Required Minimum Firmware and App Versions

Arrow Bluetooth® Firmware: 2.2.889 and above

Eos Tools Pro: 1.78 (build 255) and above

Collector for ArcGIS* and ArcGIS Pro® (latest versions)

*Although this article refers to Collector for ArcGIS on iOS, this workflow is also supported on Collector Classic for ArcGIS.

Creating Your Feature Attributes in ArcGIS Pro

To help our customers who use Esri's ArcGIS Pro, we have created an app note on how to add GNSS metadata and orthometric height into Esri Collector for use in ArcGIS Pro:

[How to Add GNSS metadata and Ortho Height in Esri Collector](#)

You will be able to access the toolbox here:

[GNSS Metadata Toolbox](#)

Configuring Collector for ArcGIS to Interact with Eos Tools Pro

In this section, we will show you how to designate Eos Tools Pro as the app that will be performing the laser-offset measurements for Collector for ArcGIS®.

Before you begin, you will need to install Eos Tools Pro on your device. (Eos Tools Pro must be installed on your iPad or iPhone* for Collector to be able to request and read measurements from it. [Eos Tools Pro is available for free for iOS on the Apple iTunes store](#), but you must have an Arrow receiver paired and connected to the iOS device in order to use it.)

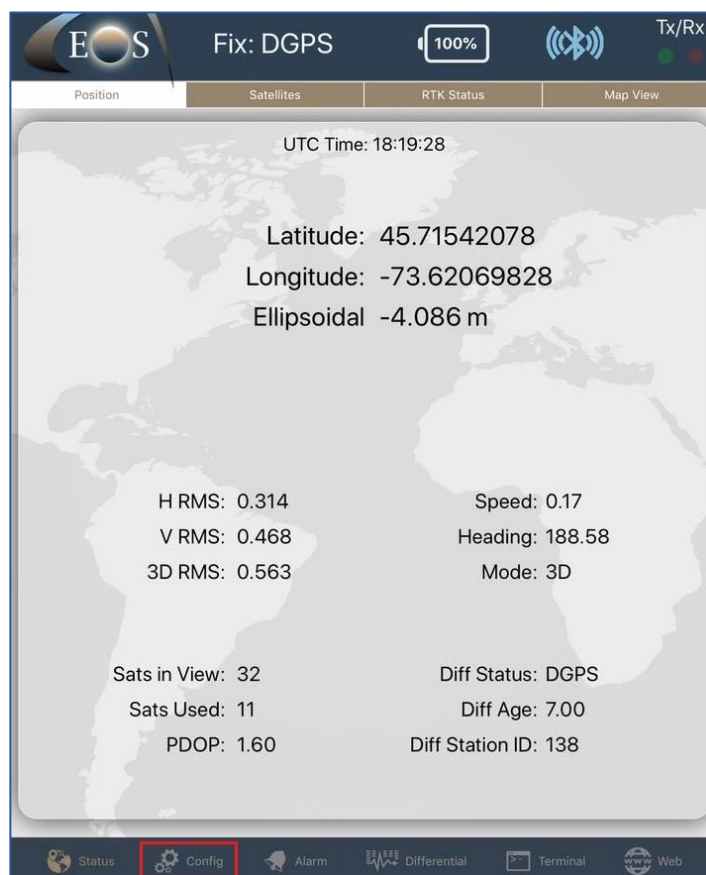
**Please note that the laser-offset solution currently works only on iOS. To be alerted when an Android laser-offset solution is released, [sign up for our newsletter](#).*

First, let's set up Eos Tools Pro to compute your laser offsets.

Step 1: Configure Eos Tools Pro for Orthometric Heights

In this section, we will show you how to configure Eos Tools Pro and the Arrow receiver to output orthometric height measurements to Collector. This is possible thanks to built-in geoid models within Eos Tools Pro.

1. First, open Eos Tools Pro, and tap on the "Config" tab at the bottom of the app.

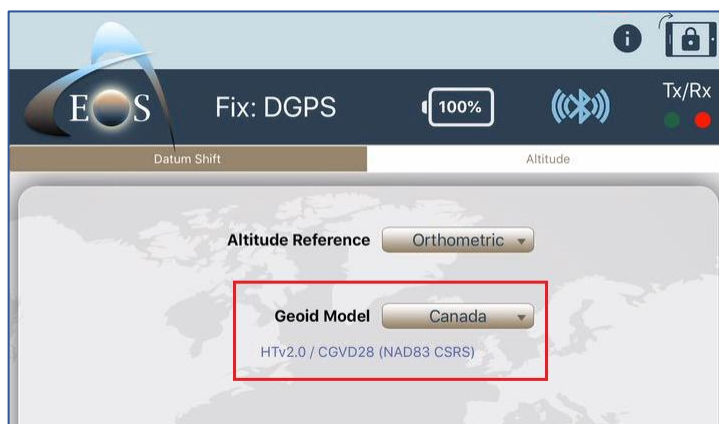


2. Select "Altitude" in the upper menu bar. From the "Altitude Reference" pull-down, select "Orthometric".

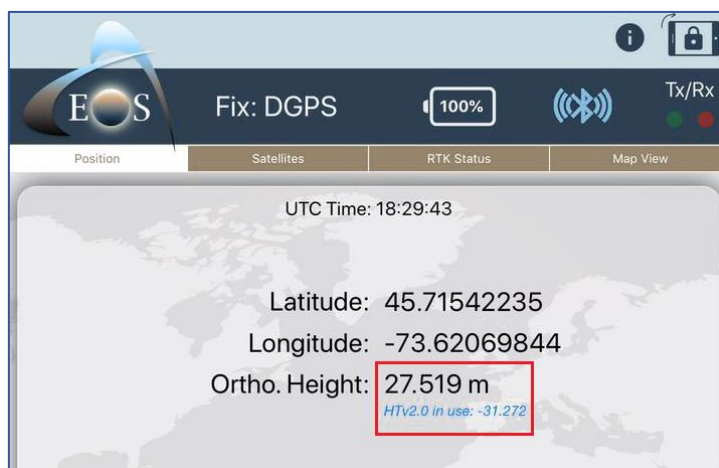
Altitude Reference	
Receiver MSL	
Orthometric	✓
Elipsoidal	

3. You will be presented with a list of supported (downloadable) geoid models. Scroll down to your country and select the geoid model you wish to download. Once downloaded, select the model by simply tapping on it (a selection checkmark will appear on the right). Then tap on "Done".

Geoid Models		Done
Swipe Geoid Model to the Left to Remove from device		
AUSTRALIA		
✗	AUSGeoid09 / AHD71 (GDA94)	
✗	AUSGeoid2020 / AHD71 (GDA2020)	
BRAZIL		
✗	MAPGEO2015 / DVB-I (SIRGAS 2000)	
CANADA		
✗	CGG2013a / CGVD2013 (ITRF 2008)	
✗	CGG2013a / CGVD2013 (NAD83 CSRS)	
✓	HTv2.0 / CGVD28 (NAD83 CSRS)	✓
SWEDEN		
✗	SWEN17 / RH 2000 (SWEREF 99)	
USA		
✗	GEOID12B / NAVD88 (NAD83 2011/PA11/MA11)	



Note: The Geoid model that is in use will be displayed on the main Eos Tools Pro Position page, along with the current computed geoid height (undulation), right below the receiver's coordinates.



Now that your geoid model is set in Eos Tools Pro to collect real-time orthometric heights, we will configure the laser offset settings.

Step 2: Configure Eos Tools Pro as the Laser Offset Measurement Source in Collector

1. Open Collector. In the “Settings” menu, under “Collection”, select Eos Tools Pro for Offset.

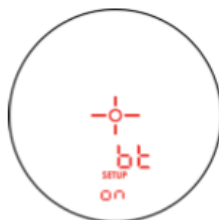
COLLECTION	
Accuracy	40 cm >
GPS Averaging	Off >
Streaming	Time 1 sec >
Photo Size	Large >
Related Types	Filtered >
Offset	Eos Tools Pro >

Step 3: Setting the TruPulse 200X

You can refer to the Laser Technologies Inc.’s TruPulse 200X user manual for all the details about this product: <https://www.lasertech.com/FileDownloads/LTI-TruPulse-200X-User-Manual-3.pdf>

For Workflows #1 and #2, please ensure the TruPulse 200X Bluetooth® Setting is set as follows:

On: Turns the Bluetooth® communications on. Serial string is output through the Bluetooth® port.



For Workflow 3, please ensure the TruPulse 200X Bluetooth® Setting is set as follows:

EnC: Bluetooth Copy Mode. This mode is reserved for future use with the MapStar TruAngle.



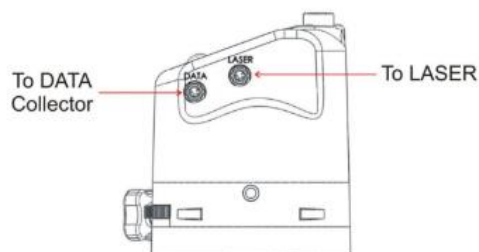
Step 4: Setting the MapStar TruAngle

You can refer to the [MapStar TruAngle User Manual](#) for all the details about this product.

In addition to the MapStar TruAngle unit, you will need the following accessory: *20" LTI 4-pin (Straight) To LTI 4-pin (Right Angle)*; This cable is used to interconnect the TruAngle to the TruPulse 200X together for Range-Back sight measurement. Please refer to Workflow #3 in the section below.

Connecting the Cables

- Connect either end of the supplied laser data cable to the laser's serial port and the other end to the TruAngle's serial port labeled "LASER".
- Connect one end of the download cable to the data collector and the other end to the TruAngle's serial port labeled "DATA".



(Right Side View of the TruAngle)

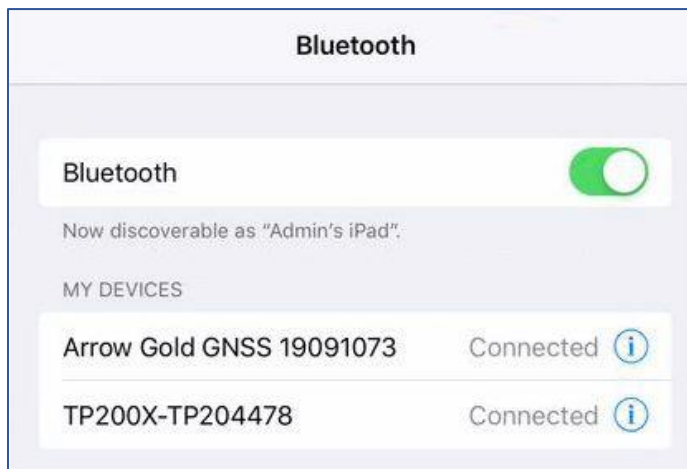
Figure #5

IMPORTANT: Please refer to section #3 of the TruAngle User Manual, called "Using the TruAngle", in order to perform the TruAngle's installation, Indexing the Encoder and Zeroing the unit, etc.

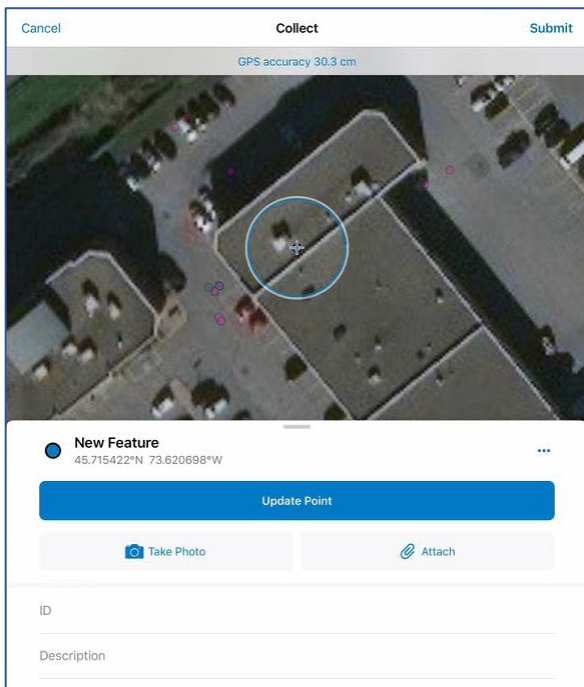
Step 5: Configure Laser Offset Settings in Eos Tools Pro

The last configuration required is done in the Laser Offset page inside Eos Tools Pro. This page is visible only when called by Collector for a measurement. It is not displayed in Eos Tools Pro.

Before proceeding: Make sure your iOS device is paired with both your Eos Arrow GNSS receiver and the LTI TruPulse 200X. (Note: During the pairing process, the TruPulse 200X will prompt you with a password. By default, the password is 1234.)

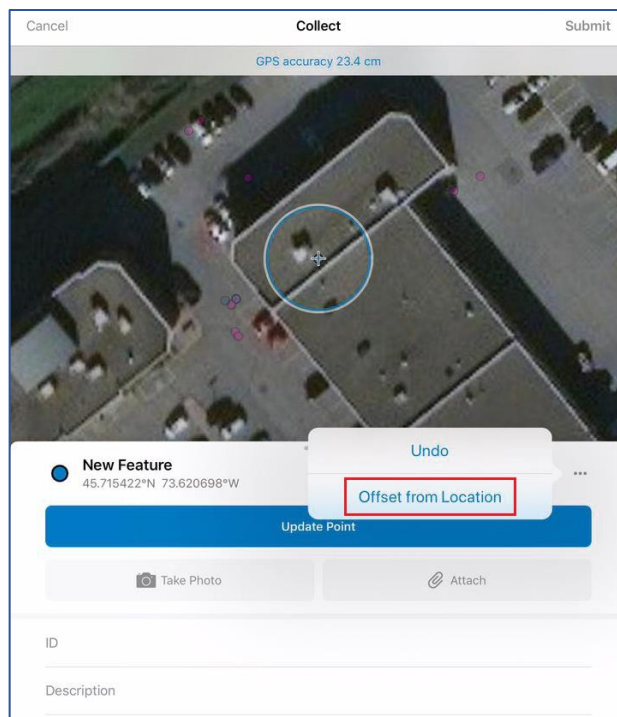


1. With Eos Tools Pro running in the background, open Collector. Select a point, line or polygon feature to be recorded.

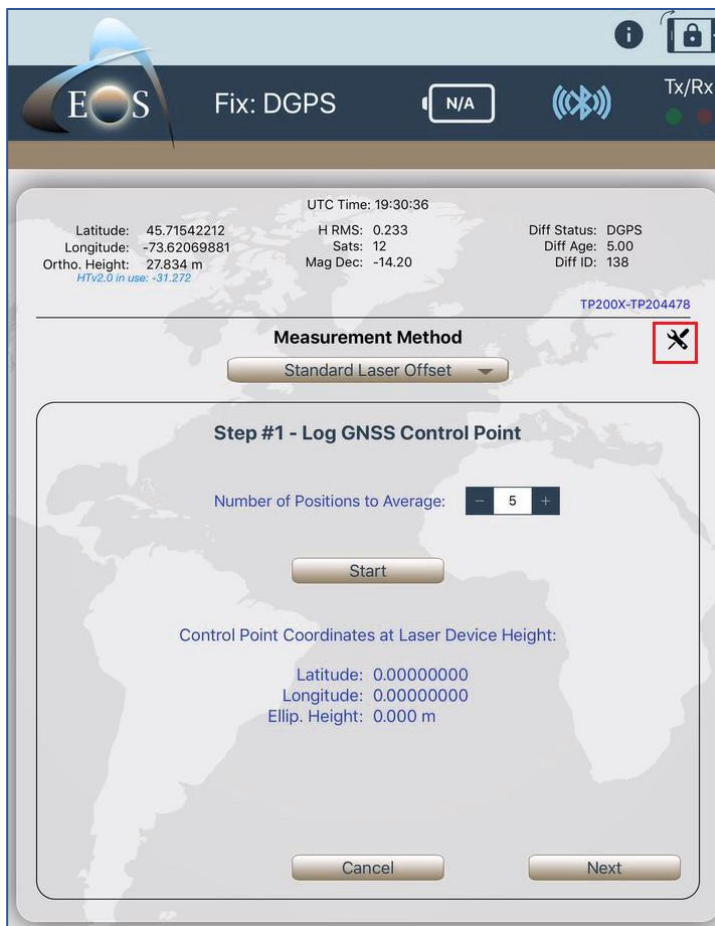


Note: You will be able to record line and polygon features using the laser offset solution and the geometry will be sent to Collector for each vertex (X, Y, Z values) but the attributes will not be populated. The examples in this guide use point features (including feature attributes) but the principle is the same for adding vertices in lines and polygons.

2. Next, select the three dots [...] icon that appears on the top right of the New Feature Tab and select *Offset from Location*. This will call the Eos Tools Pro Laser Offset Page.



- On the Eos Tools Pro Laser Offset page, tap on the “Settings” tab.



EOS Fix: DGPS N/A Tx/Rx

Latitude: 45.71542212 UTC Time: 19:30:36 H RMS: 0.233
Longitude: -73.62069881 Sats: 12 Diff Status: DGPS
Ortho. Height: 27.834 m Mag Dec: -14.20 Diff Age: 5.00
HTv2.0 in use: -31.272 Diff ID: 138

TP200X-TP204478

Measurement Method

Standard Laser Offset

Step #1 - Log GNSS Control Point

Number of Positions to Average: 5

Start

Control Point Coordinates at Laser Device Height:

Latitude: 0.00000000
Longitude: 0.00000000
Ellip. Height: 0.000 m

Cancel Next

Setting the GNSS Antenna Height (m) and the Laser Device Height (m) is critical for precise measurements as slope distance is being used from the TruPulse. Please make sure you enter the correct information.

The antenna height must include the antenna phase center (if using an Arrow Gold or Arrow 200 for RTK accuracy). Refer to the label underneath the antenna mounting plate for phase center and mounting plate height dimensions.

Refer to the TruPulse 200X manual for the location from which to measure the height to the ground.

When manually entering azimuth information for Method #1 (and since the TruPulse 200X only features distance and inclination information), you have the choice to enter a magnetic declination for your area, by manual entry or automatically from the Arrow receiver.

Settings	
Units of Measurement	
	Metric >
GNSS Antenna Height	
	1.450 >
Laser Device Height	
	1.100 >
Magnetic Declination	
	From GNSS Receiver : -14.20 >

Congratulations! You are now ready to collect laser-offset measurements directly inside your web maps in Collector. The next steps will walk you through the three different measurement methods, or workflows, for the Laser Offset.

Laser Offset Workflows: Three Options

Workflow 1: Standard Laser Offset

Best for:

- a) Mapping a small number of assets (1-3) per measurement session
- b) Portability and mobility

Things to Consider:

- a) For centimeter accuracy, we recommend using an Arrow 200 or Arrow Gold mounted on a survey range pole.
- b) For submeter accuracy, we recommend the Arrow 100, and you have the option of using the TruPulse in your hand.

Standard Components:

- a) Eos Arrow Series™ Receiver (any model)
- b) Eos Tools Pro
- c) Esri Collector for ArcGIS
- d) LTI TruPulse 200x Laser Rangefinder (or TruPulse 360 with built-in compass, for submeter applications; since the 360 is not iOS compatible, values read through the interface must be entered manually)
- e) iOS device (iPad, iPhone) with version 11 or later

Workflow 1 Summary:

- a) Occupy Control Point 1 and log GNSS point
- b) Aim and shoot at target
- c) Enter azimuth information manually

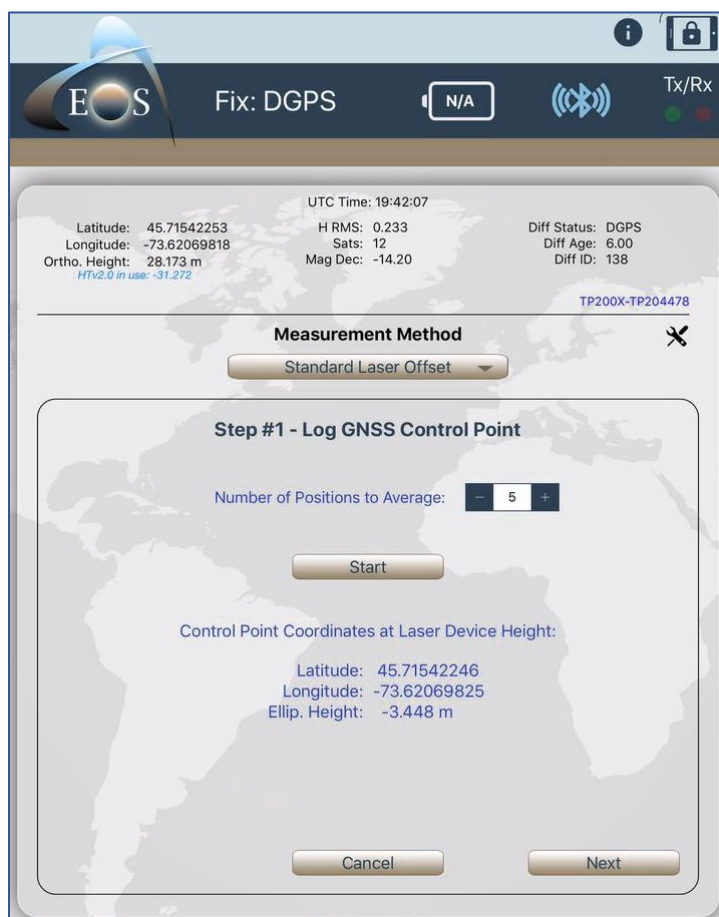
Standard Laser Offset Setup:



Laser Mapping (How-To):

Refer to Step #5 above to select a feature layer in Collector and call the Laser Offset page of Eos Tools Pro.

- a) Step #1 – Log GNSS Control Point #1: Click on “Start”. Then when done, click on “Next”.



EOS Fix: DGPS N/A Tx/Rx

Latitude: 45.71542253 Longitude: -73.62069818 Ortho. Height: 28.173 m
HTv2.0 in use: -31.272

UTC Time: 19:42:07 H RMS: 0.233 Sats: 12 Mag Dec: -14.20
 Diff Status: DGPS Diff Age: 6.00 Diff ID: 138

TP200X-TP204478

Measurement Method
 Standard Laser Offset

Step #1 - Log GNSS Control Point

Number of Positions to Average: 5

Start

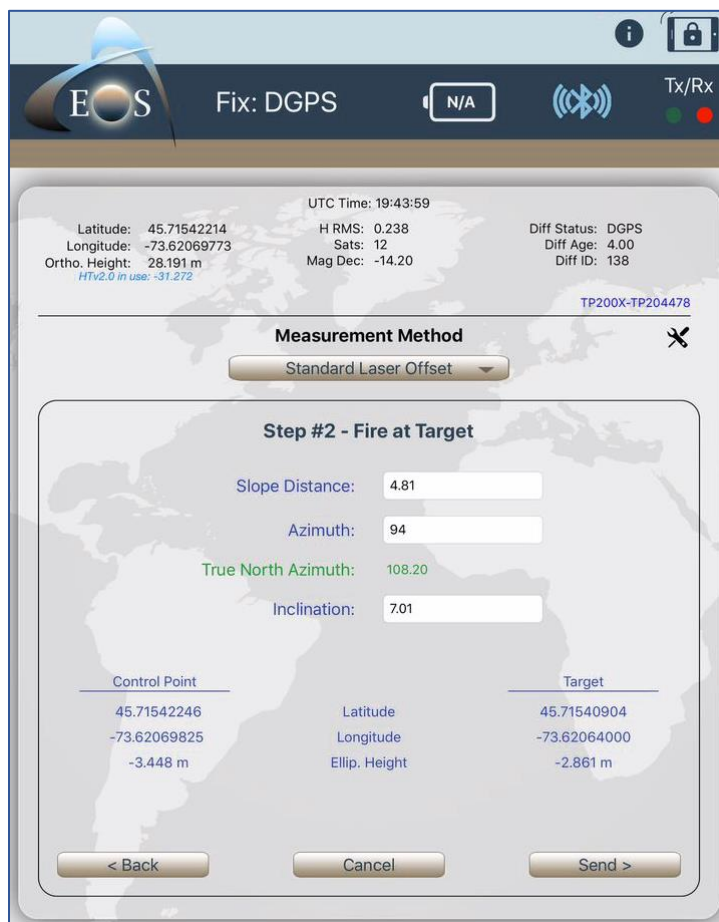
Control Point Coordinates at Laser Device Height:

Latitude: 45.71542246
 Longitude: -73.62069825
 Ellip. Height: -3.448 m

Cancel Next

b) Step #2 – Fire at Target

Look in the TruPulse 200X lens and aim at your target. When it's done, click on the "FIRE" button on the TruPulse 200X and you will see the target info displayed in Eos Tools Pro (Slope Distance and Inclination). You will have to set the Azimuth manually. The True North azimuth will be computed based on the magnetic inclination value in the settings. Finally press on "Send >", and this will call back Collector and transfer all measurements and attributes to your point layer:



The screenshot shows the Eos Tools Pro interface with the following data:

UTC Time: 19:43:59

Latitude: 45.71542214, Longitude: -73.62069773, Ortho. Height: 28.191 m, HTv2.0 in use: -31.272

H RMS: 0.238, Sats: 12, Mag Dec: -14.20

Diff Status: DGPS, Diff Age: 4.00, Diff ID: 138

TP200X-TP204478

Measurement Method: Standard Laser Offset

Step #2 - Fire at Target

Slope Distance: 4.81

Azimuth: 94

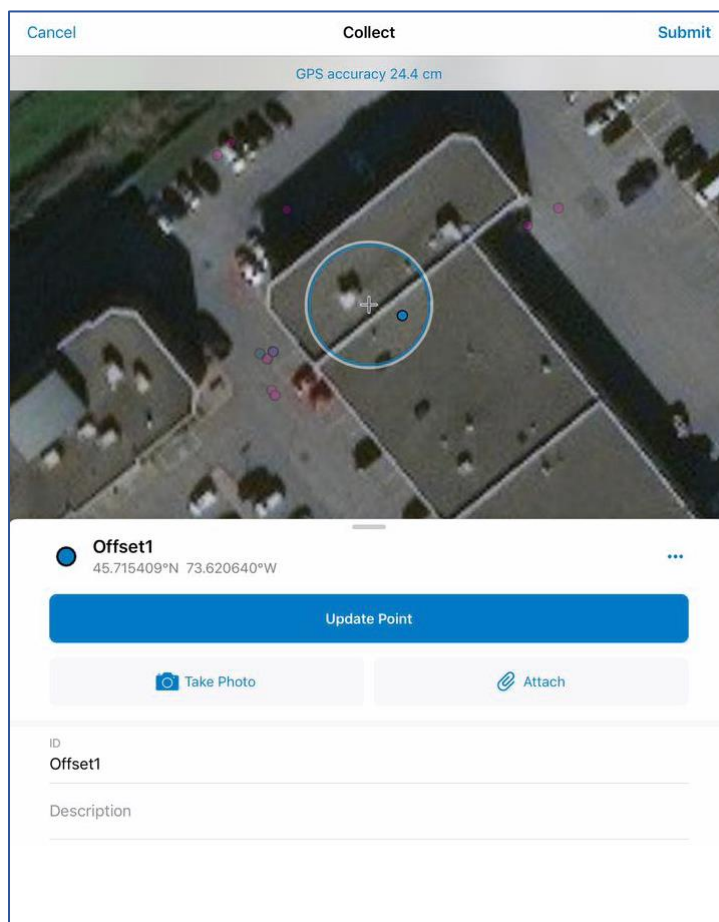
True North Azimuth: 108.20

Inclination: 7.01

Control Point		Target	
Latitude	45.71542246	Latitude	45.71540904
Longitude	-73.62069825	Longitude	-73.62064000
Ellip. Height	-3.448 m	Ellip. Height	-2.861 m

Buttons: < Back, Cancel, Send >

- c) Back in Collector, click on “Submit” to record the Offset on the map. (You don’t have to press on “Update Point”.)



d) Your meta-data is now available in Collector and ArcGIS Online.

Offset1

45.715409°N 73.620640°W 5 m

GPS accuracy 28.7 cm

OBJECTID

17

Name

Offset1

Receiver Name

Arrow Gold GNSS #19091073 - Offset

Measurement Method

Standard Laser Offset

Offset Point Latitude

45.71540904

Offset Point Longitude

-73.62064000

Offset Point HAE (ellipsoidal)

-2.861

Orthometric Height

28.412

Altitude Undulation


-31.272

Geoid Model

Canada HTv2.0 / CGVD28 (NAD83 CSRS)

Bluetooth Laser Device

TP200X-TP204478 -



Workflow 2: Range-Range/Intersect

Best for:

- a) Mapping a small number of assets (1-3) per measurement session
- b) Portability and mobility

Things to Consider:

- a) For centimeter accuracy, we recommend using an Arrow 200 or Arrow Gold mounted on a survey rangepole.
- b) For submeter accuracy, we recommend the Arrow 100, and you have the option of using the TruPulse in your hand.

Standard Components:

- a) Eos Arrow Series™ Receiver (any model)
- b) Eos Tools Pro
- c) Esri Collector for ArcGIS
- d) LTI TruPulse 200x Laser Rangefinder
- e) iOS device (iPad, iPhone) with version 11 or later
- f) Survey rangepole for RTK measurements

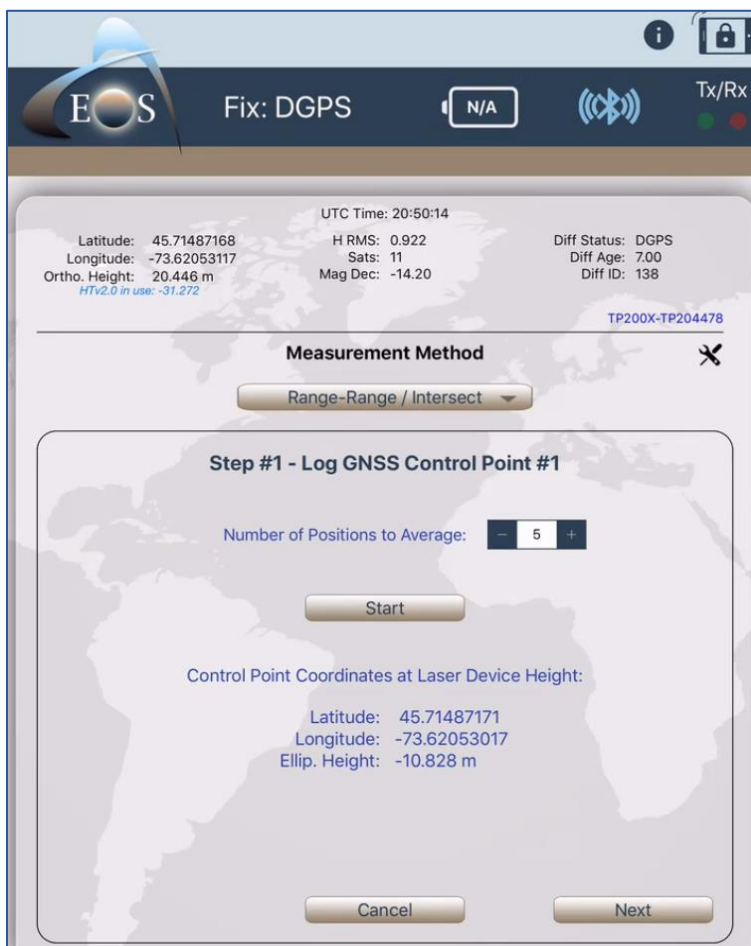
Workflow 2 Summary:

- a) Occupy Control Point 1 and log a GNSS point
- b) Aim and shoot at Target
- c) Occupy Control Point 2 and log a GNSS point
- d) Aim at same Target
- e) Select 1 of the 2 possible solutions from the displayed map. (Ex. if target was on the right of the trajectory from Control Point 1 to Control Point 2, then select the solution on the right of CP1-CP2.)

Range-Range/Intersect Setup:



- e) Select the Measurement Method to *Range-Range/Intersect*.
- f) Step #1 – Log GNSS Control Point #1: Click on “Start”. When done click on “Next”.



UTC Time: 20:50:14

Latitude: 45.71487168	H RMS: 0.922	Diff Status: DGPS
Longitude: -73.62053117	Sats: 11	Diff Age: 7.00
Ortho. Height: 20.446 m	Mag Dec: -14.20	Diff ID: 138
<small>HTv2.0 in use: -31.272</small>		

TP200X-TP204478

Measurement Method ✕

Range-Range / Intersect

Step #1 - Log GNSS Control Point #1

Number of Positions to Average:

Start

Control Point Coordinates at Laser Device Height:

Latitude:	45.71487171
Longitude:	-73.62053017
Ellip. Height:	-10.828 m

Cancel Next

g) Step #2 – Set the Number of Targets to Map (this feature will be available in a future release).



EOS Fix: DGPS N/A Tx/Rx

UTC Time: 20:50:23

Latitude: 45.71487212 H RMS: 0.966 Diff Status: DGPS
 Longitude: -73.62053132 Sats: 11 Diff Age: 4.00
 Ortho. Height: 20.404 m Mag Dec: -14.20 Diff ID: 138
 HTv2.0 in use: -31.272

TP200X-TP204478

Measurement Method X

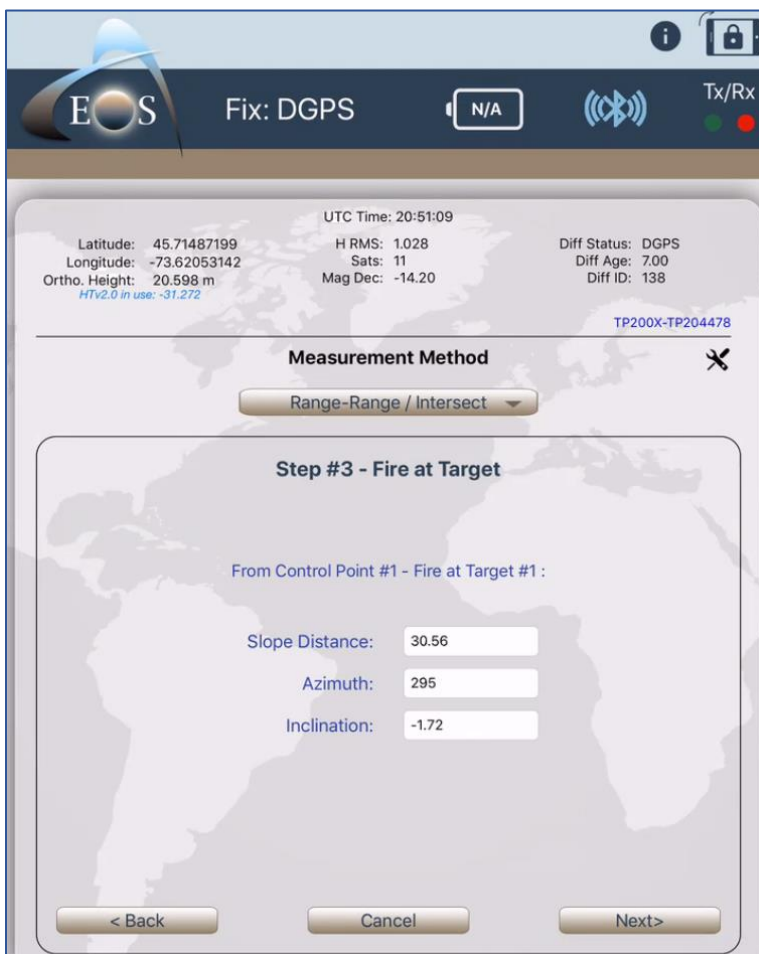
Range-Range / Intersect

Step #2 - Number of Targets

Set Number of Targets to Map: 1

< Back Cancel Next>

- h) Step #3 – Fire at Target; Look in the TruPulse 200X lens and aim at your target. When it's done, click on the "FIRE" button on the TruPulse 200X and you will see the target info displayed in Eos Tools Pro (Slope Distance, Inclination). Note that azimuth information is not needed in this method. If known more or less, entering a value will help the app to auto-suggest the result between the two possible solutions. When done click on "Next".



The screenshot shows the Eos Tools Pro app interface. At the top, there is a header bar with the EOS logo, a status bar showing "Fix: DGPS", a battery icon labeled "N/A", a Bluetooth icon, and a "Tx/Rx" status. Below the header, the main screen displays a world map background. The top section shows various status information: Latitude: 45.71487199, Longitude: -73.62053142, Ortho. Height: 20.598 m, HTv2.0 in use: -31.272, UTC Time: 20:51:09, H RMS: 1.028, Sats: 11, Mag Dec: -14.20, Diff Status: DGPS, Diff Age: 7.00, Diff ID: 138, and a device ID "TP200X-TP204478". Below this is a "Measurement Method" section with a dropdown menu set to "Range-Range / Intersect". The main section is titled "Step #3 - Fire at Target" and contains the text "From Control Point #1 - Fire at Target #1 :". Below this text are three input fields: "Slope Distance:" with the value 30.56, "Azimuth:" with the value 295, and "Inclination:" with the value -1.72. At the bottom of the screen are three buttons: "< Back", "Cancel", and "Next>".

- i) Step #4 – Log GNSS Control Point #2: Click on “Start”. When done click on “Next”.



EOS Fix: DGPS N/A Tx/Rx

Latitude: 45.71482585 Longitude: -73.62093632 Ortho. Height: 20.019 m
HTV2.0 in use: -31.272

UTC Time: 20:51:54 H RMS: 0.881 Sats: 9 Mag Dec: -14.20

Diff Status: DGPS Diff Age: 5.00 Diff ID: 138

TP200X-TP204478

Measurement Method
 Range-Range / Intersect

Step #4 - Log GNSS Control Point #2

Number of Positions to Average: - 5 +

Start

Control Point Coordinates at Laser Device Height:

Latitude: 45.71482622
 Longitude: -73.62093584
 Ellip. Height: -11.581 m

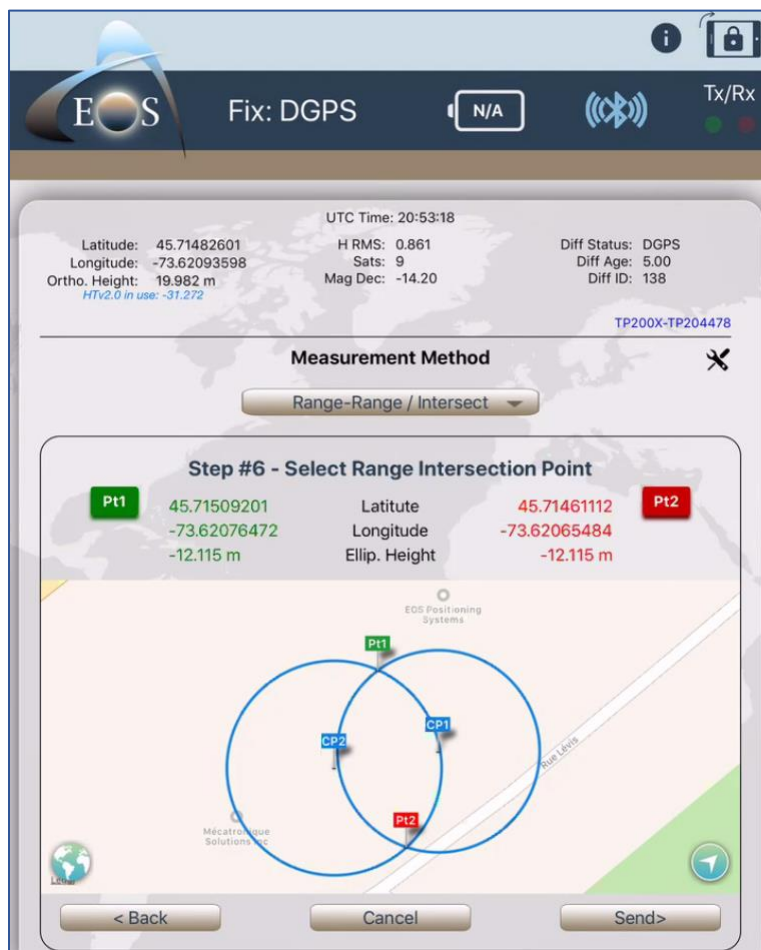
Back Cancel Next

- j) Step #5 – Fire at target; Look in the TruPulse 200X lens and aim at your target. When it's done, click on the "FIRE" button on the TruPulse 200X and you will see the target info displayed in Eos Tools Pro (Slope Distance, Inclination). Note that azimuth information is not needed in this method. If known more or less, entering a value will help the app to auto-suggest the result between the two possible solutions. When done click on "Next".

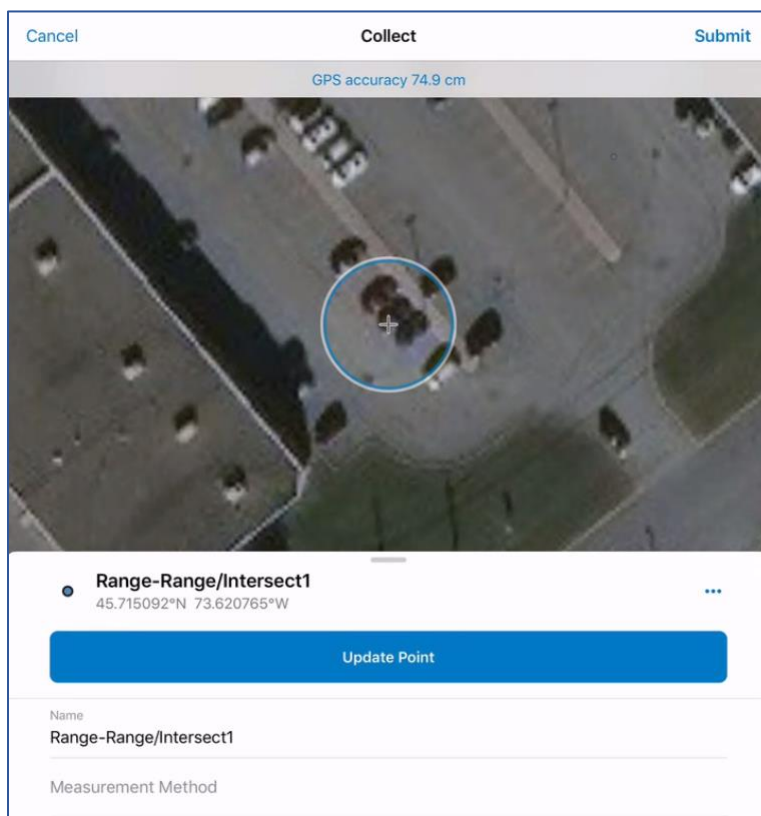


The screenshot shows the Eos Tools Pro app interface. At the top, there's a header with the EOS logo, 'Fix: DGPS', a battery icon labeled 'N/A', a Bluetooth icon, and 'Tx/Rx' status. Below the header, a status bar displays various GPS and DGPS data: Latitude: 45.71482456, Longitude: -73.62094153, Ortho. Height: 22.125 m, HTv2.0 in use: -31.272, UTC Time: 20:52:36, H RMS: 1.029, Sats: 9, Mag Dec: -14.20, Diff Status: DGPS, Diff Age: 5.00, Diff ID: 138, and TP200X-TP204478. The main content area is titled 'Measurement Method' with a dropdown menu set to 'Range-Range / Intersect'. Below this, a section titled 'Step #5 - Fire at Target' contains the instruction 'From Control Point #2 - Fire at Target #1 :'. There are three input fields: 'Slope Distance:' with the value 32.42, 'Azimuth:' with the value 303, and 'Inclination:' with the value -1.60. At the bottom, there are three buttons: '< Back', 'Cancel', and 'Next>'.

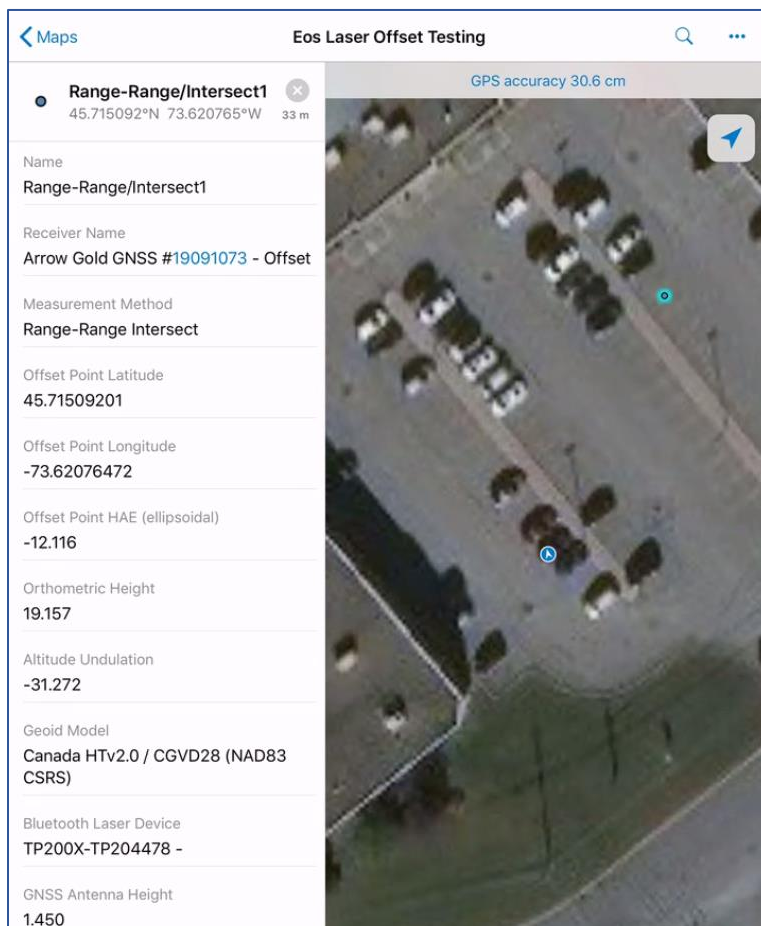
- k) Step #6 – Select Range-Range Intersection Point. Click on the Point that corresponds to your target. When done, click on “Send >”.



- I) Back in Collector, click on “Submit” to record the Offset on the map. (You don’t have to press on “Update Point”.)



m) Your meta-data is now available in Collector and ArcGIS Online!



Workflow 3: Range-Backsight

Best for:

- a) Taking multiple measurements from one location
- b) Obtaining a GNSS + total station-like workflow with precise angular measurements

Things to Consider:

- a) This workflow requires capturing a backsight point, to calibrate the TruAngle angular encoder for true azimuth

Standard Components:

- a) Eos Arrow Series™ Receiver (any model)
- b) Eos Tools Pro v1.72 (104) or above (free for iOS)
- c) Esri Collector for ArcGIS
- d) LTI TruPulse 200x Laser Rangefinder
- e) LTI Mapstar TruAngle Angle Encoder
- f) iOS device (iPad, iPhone) with version 11 or later
- g) Laser Technologies – TruAngle and Arrow Mounting Brackets
- h) Tripod

Workflow 3 Summary:

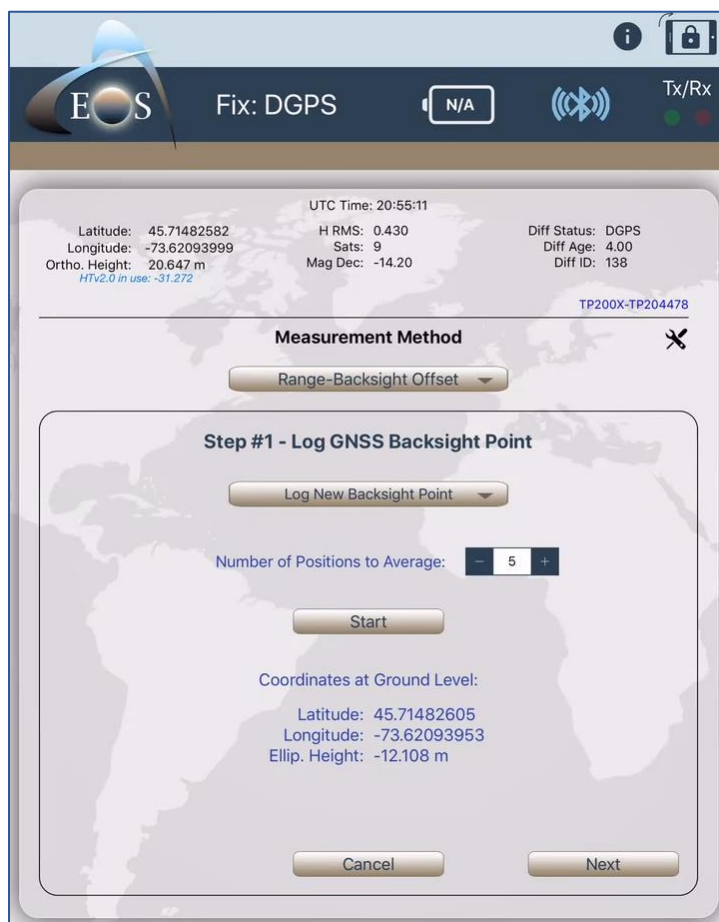
- a) Occupy your Backsight Point and log GNSS point
- b) Occupy Control Point and log GNSS point
- c) Aim and shoot at Backsight Point to calibrate TruAngle
- d) Aim and shoot at target

Range-Backsight Setup:



Laser Backsight Mapping (How-To):

- a) Select the Measurement Method to “Range-Backsight Offset”.
- b) Step #1 – Log GNSS Backsight Point: Click on Start, when done click on Next”.



The screenshot shows the EOS software interface. At the top, there is a status bar with the EOS logo, 'Fix: DGPS', a battery icon labeled 'N/A', a signal strength icon, and 'Tx/Rx' status. Below this, a data panel displays the following information:

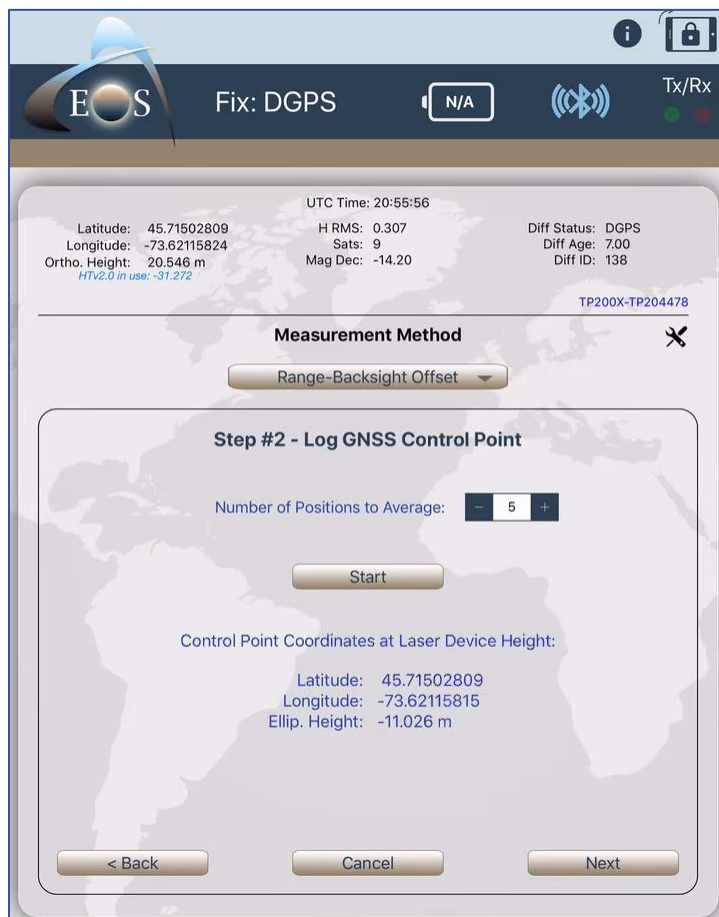
Latitude: 45.71482582	UTC Time: 20:55:11	H RMS: 0.430	Diff Status: DGPS
Longitude: -73.62093999	Sats: 9	Mag Dec: -14.20	Diff Age: 4.00
Ortho. Height: 20.647 m			Diff ID: 138
<small>HTv2.0 in use: -31.272</small>			

Below the data panel, the 'Measurement Method' is set to 'Range-Backsight Offset'. The main section is titled 'Step #1 - Log GNSS Backsight Point' and contains a 'Log New Backsight Point' button. Below this, the 'Number of Positions to Average' is set to 5. A 'Start' button is prominently displayed. At the bottom, the 'Coordinates at Ground Level' are shown:

Latitude: 45.71482605
Longitude: -73.62093953
Ellip. Height: -12.108 m

'Cancel' and 'Next' buttons are located at the bottom of the screen.

c) Step #2 – Log GNSS Control Point: Click on “Start”. When done click on “Next”.



EOS Fix: DGPS N/A Tx/Rx

UTC Time: 20:55:56

Latitude: 45.71502809 H RMS: 0.307 Diff Status: DGPS
 Longitude: -73.62115824 Sats: 9 Diff Age: 7.00
 Ortho. Height: 20.546 m Mag Dec: -14.20 Diff ID: 138
 HTv2.0 in use: -31.272 TP200X-TP204478

Measurement Method ✕

Range-Backsight Offset

Step #2 - Log GNSS Control Point

Number of Positions to Average: - 5 +

Start

Control Point Coordinates at Laser Device Height:

Latitude: 45.71502809
 Longitude: -73.62115815
 Ellip. Height: -11.026 m

< Back Cancel Next

d) Step #3 – From Control Point, fire at Backsight Point. The computed true azimuth between the control and Backsight point will be displayed along with the azimuth correction that will be applied to the target measurements. When done click on “Next”.



EOS Fix: DGPS N/A Tx/Rx

Latitude: 45.71502776 Longitude: -73.62115936 Ortho. Height: 20.828 m
HTv2.0 in use: -31.272

UTC Time: 20:56:48 H RMS: 0.962 Sats: 11 Mag Dec: -14.20

Diff Status: DGPS Diff Age: 6.00 Diff ID: 138

TP200X-TP204478

Measurement Method Range-Backsight Offset

Step #3 - Angle Calibration

Computed True Azimuth : 142.84

From Control Point, Fire at Backsight Point:

Slope Distance: 28.99

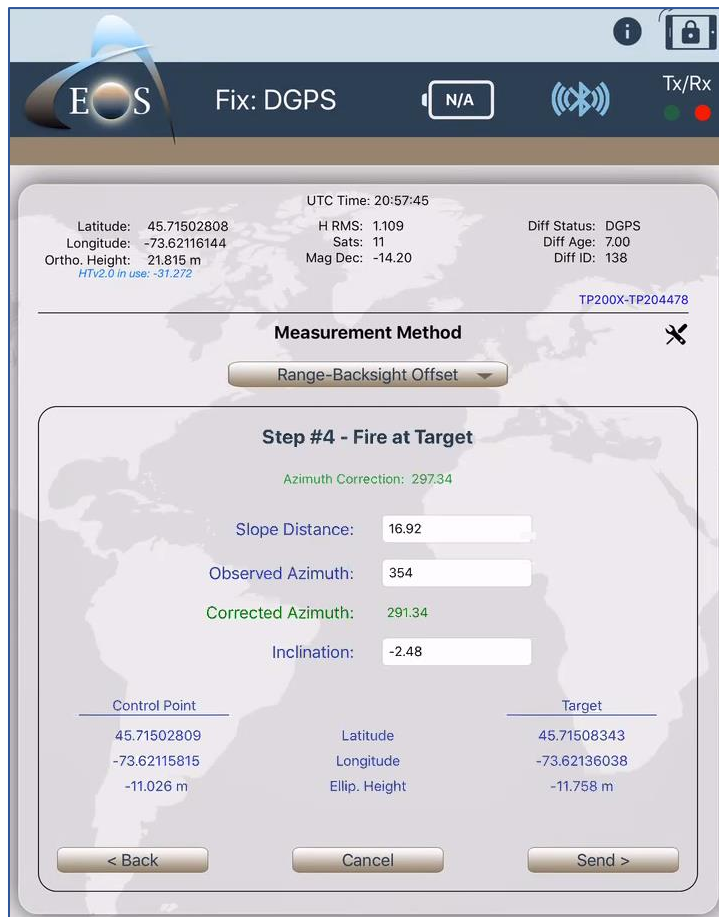
Azimuth: 205.5

Inclination: -1.11

Azimuth Correction: 297.34

< Back Cancel Next


e) Step #4 – Fire at Target. Look in the TruPulse 200X lens and aim at your target. When it's done, click on the “FIRE” button on the TruPulse 200X. You will see the target info displayed in Eos Tools Pro (Slope Distance, Inclination and corrected true azimuth). When done, click on “Send >”.



UTC Time: 20:57:45

Latitude: 45.71502808 H RMS: 1.109 Diff Status: DGPS
 Longitude: -73.62116144 Sats: 11 Diff Age: 7.00
 Ortho. Height: 21.815 m Mag Dec: -14.20 Diff ID: 138
HTV2.0 in use: -31.272

TP200X-TP204478

Measurement Method 

Range-Backsight Offset

Step #4 - Fire at Target

Azimuth Correction: 297.34

Slope Distance: 16.92

Observed Azimuth: 354

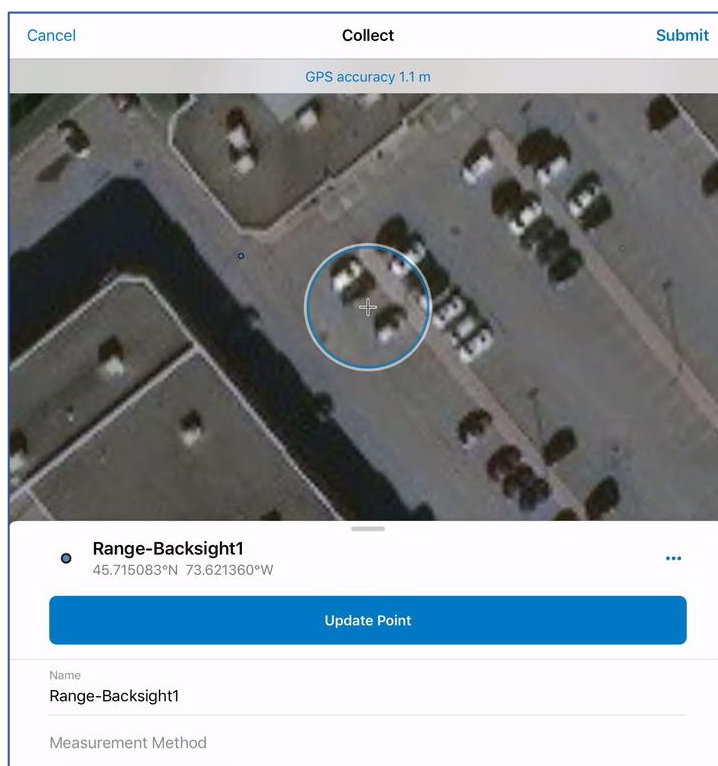
Corrected Azimuth: 291.34

Inclination: -2.48

Control Point		Target	
Latitude	45.71502809	Latitude	45.71508343
Longitude	-73.62115815	Longitude	-73.62136038
Ellip. Height	-11.026 m	Ellip. Height	-11.758 m

< Back Cancel Send >

f) Back in Collector, click on “Submit” to record the Offset on the map. (You don’t have to press on “Update Point”.)



g) Your meta-data is now available in Collector and ArcGIS Online!

