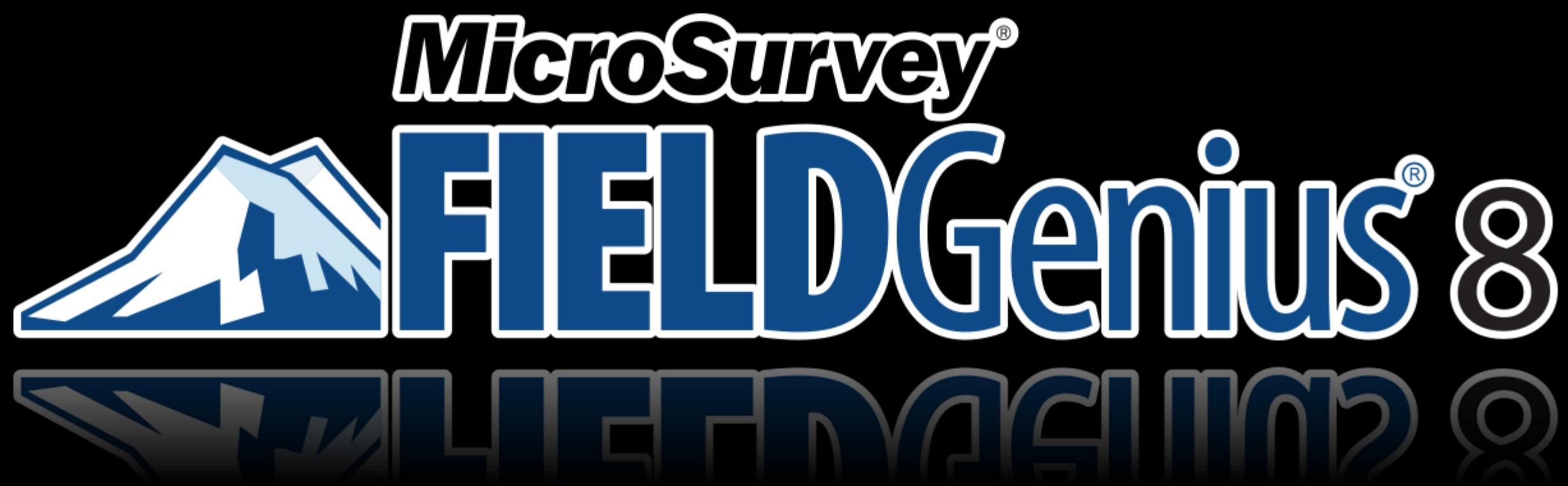
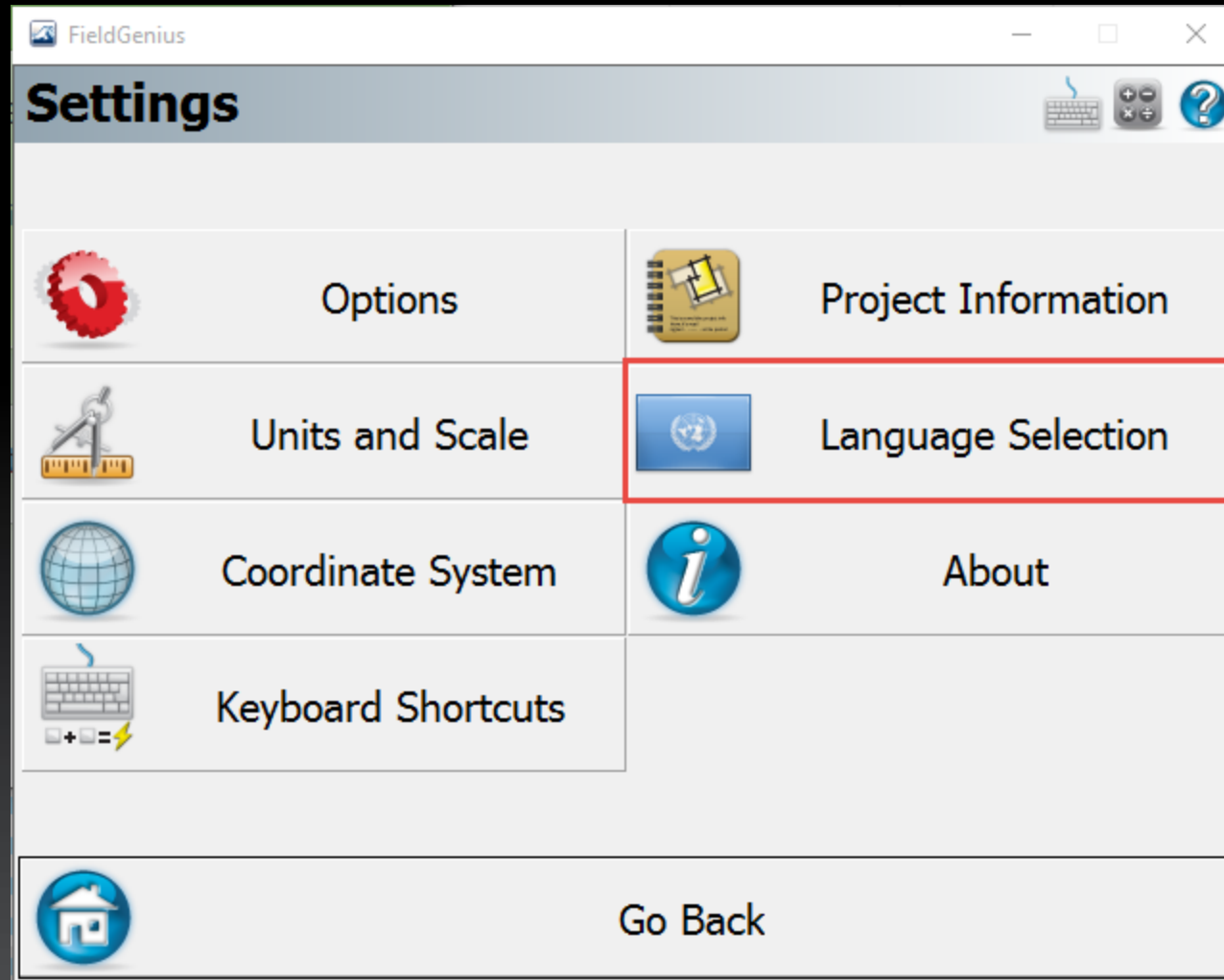


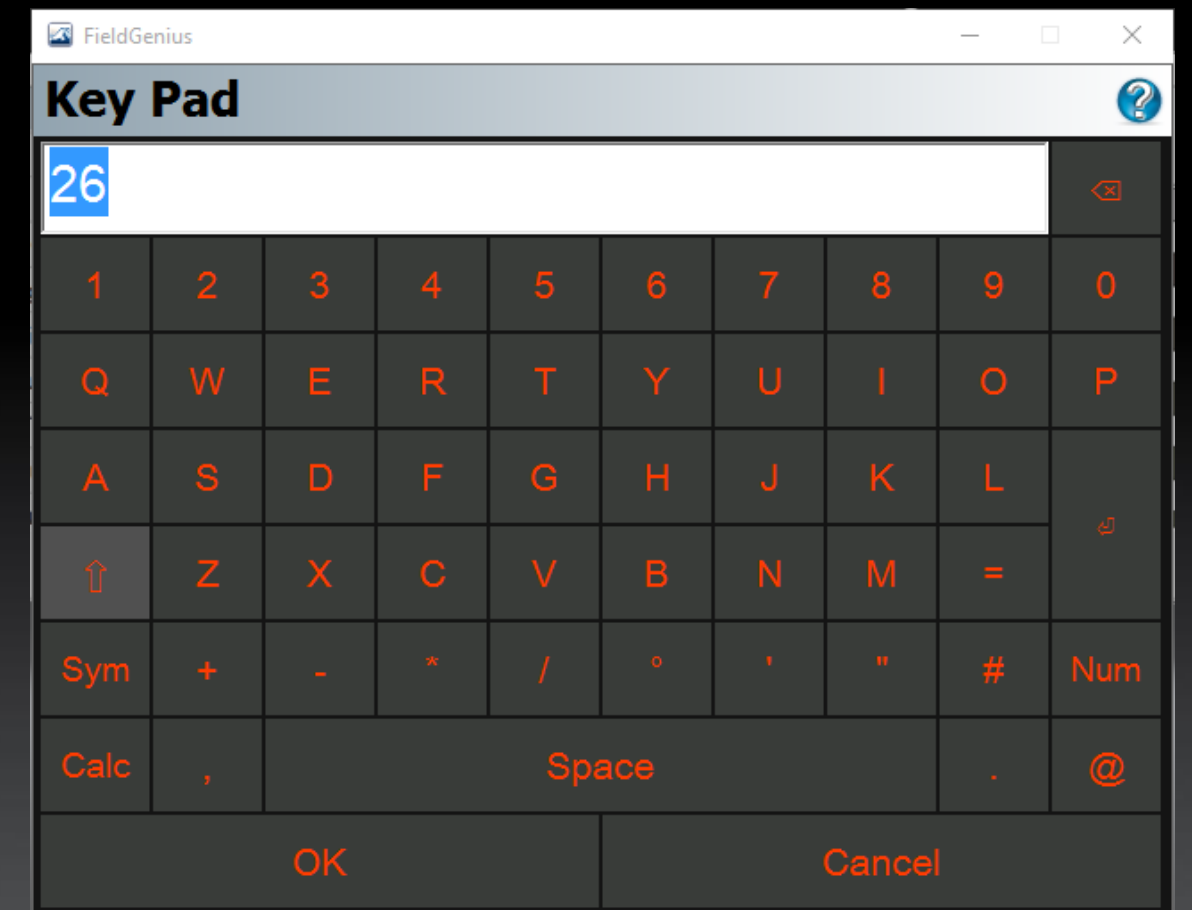
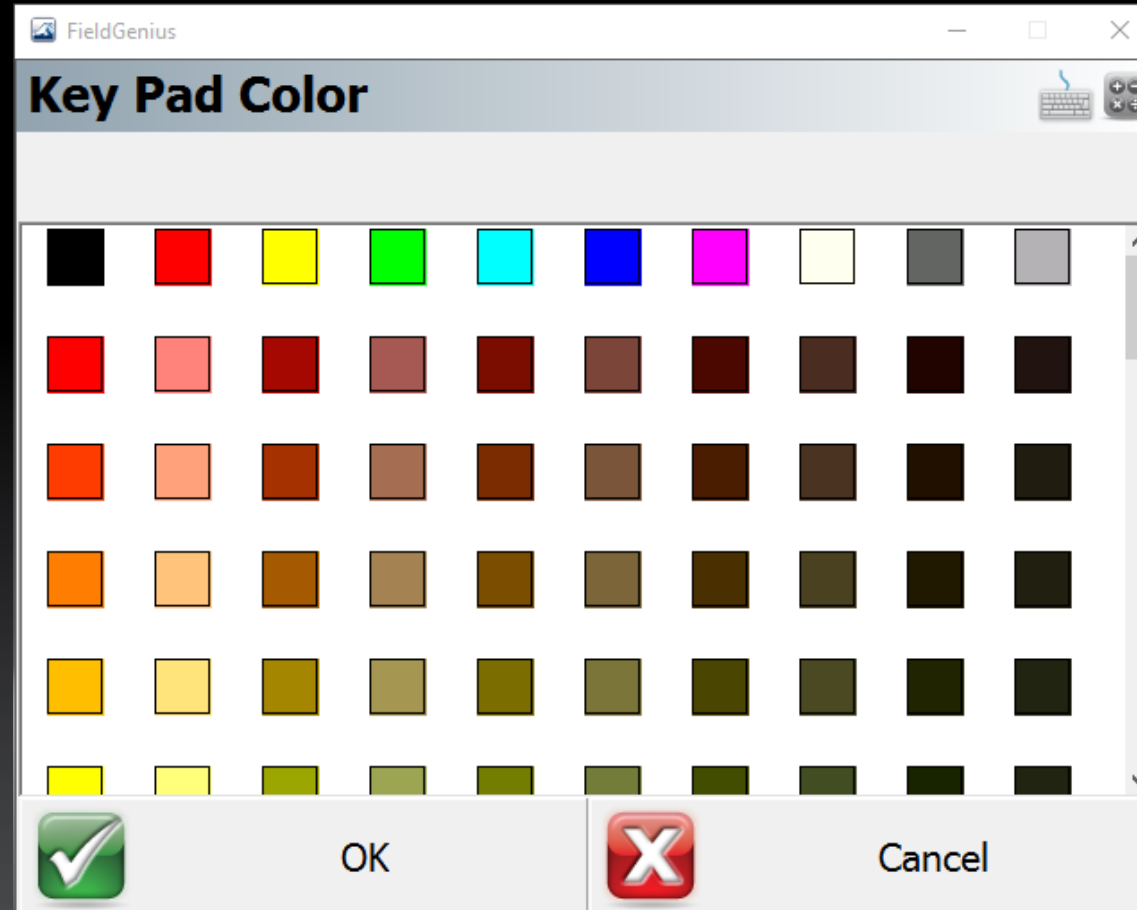
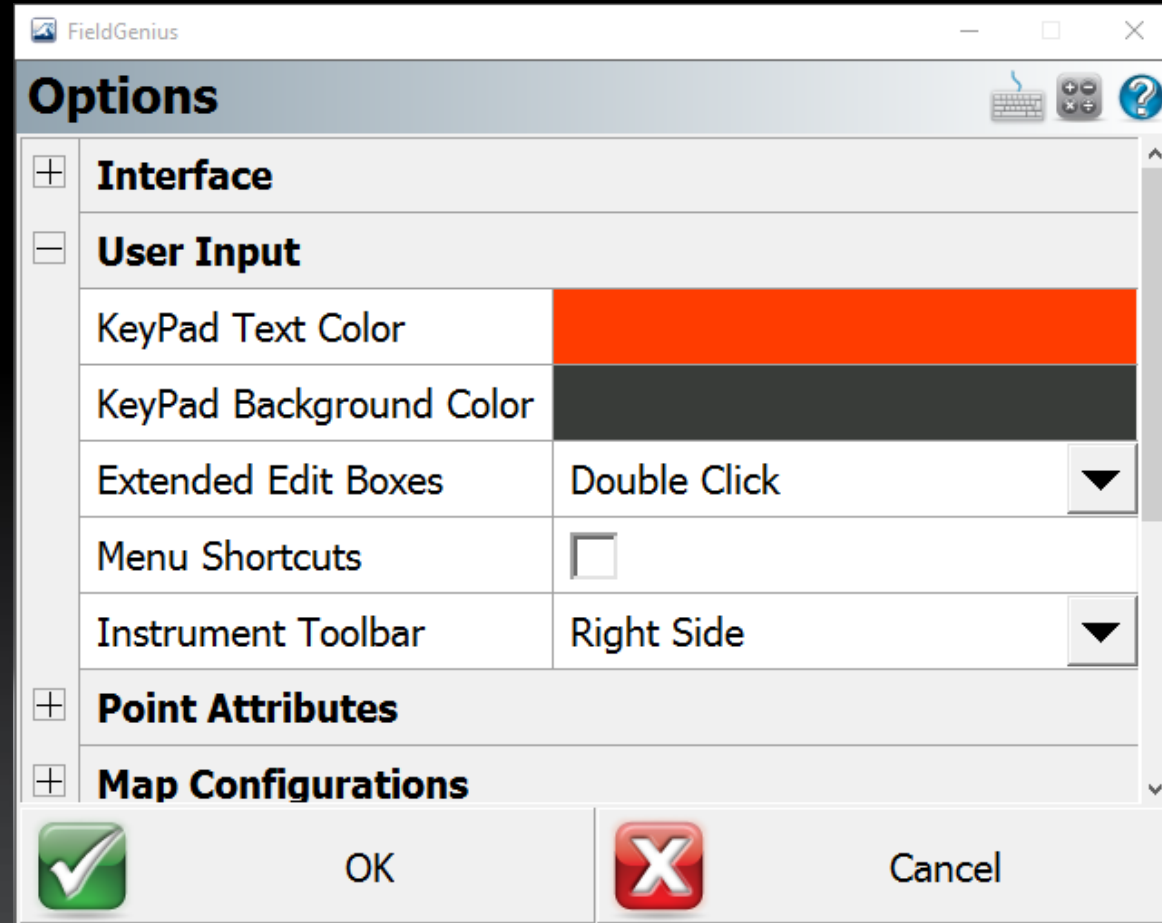


v8.3

New Features



Language Selection



Color Keypad Options

FieldGenius

GNSS Measurement Modes

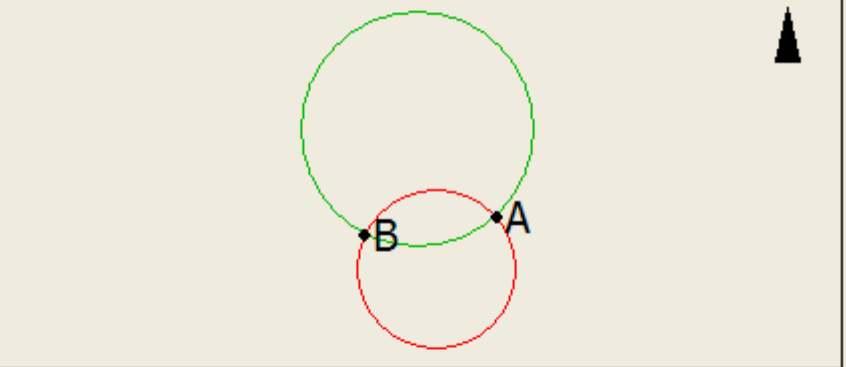
 Standard Measurement	 Offset Measurement
 Tilt Offset Measurement	 Auto Record Points
 Local Transformation Point	 Check Point
 Trilateration	 Add Invert

 Go Back

Tilt Offset Measurement

Method **Two Pole Tilt Intersection**

Measure Pole Tilt 1	17.542° (Red)
Measure Pole Tilt 2	26.364° (Green)



Select Solution:

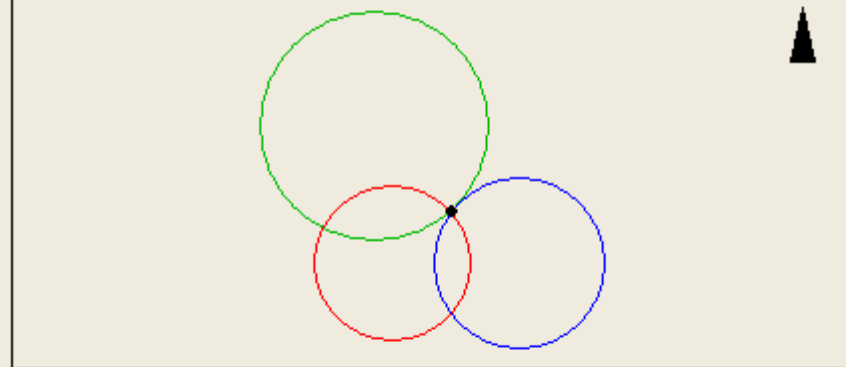
☒ Solution A ☐ Solution B

 Save Point  Cancel

Tilt Offset Measurement

Method **Three Pole Tilt Intersection**

Measure Pole Tilt 1	17.542° (Red)
Measure Pole Tilt 2	26.364° (Green)
Measure Pole Tilt 3	19.415° (Blue)



 Save Point  Cancel

Tilt Offset Measurement

FieldGenius

Point Staking

Point ID: 25 Prev Next

Point Desc: Nearest

Staking List

Design Point Offset

Direction	0°00'00"	Northing	5523074.896m
Distance	0.000m	Easting	311585.655m
		Elevation	382.154m

Multi-Offset Mode

☐ Do not show this screen again.

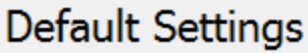
 Stake Point  Close

Staking Elevation Offset

FieldGenius

Target Manager

 Backsight	 Foresight
Target:	Leica Mini 360
Target Height:	0.000m <=
Use Temp. Height:	0.000m <=
EDM Mode:	IR Standard
Leica Constant: 30.0mm	

 OK
  Default Settings
  Cancel

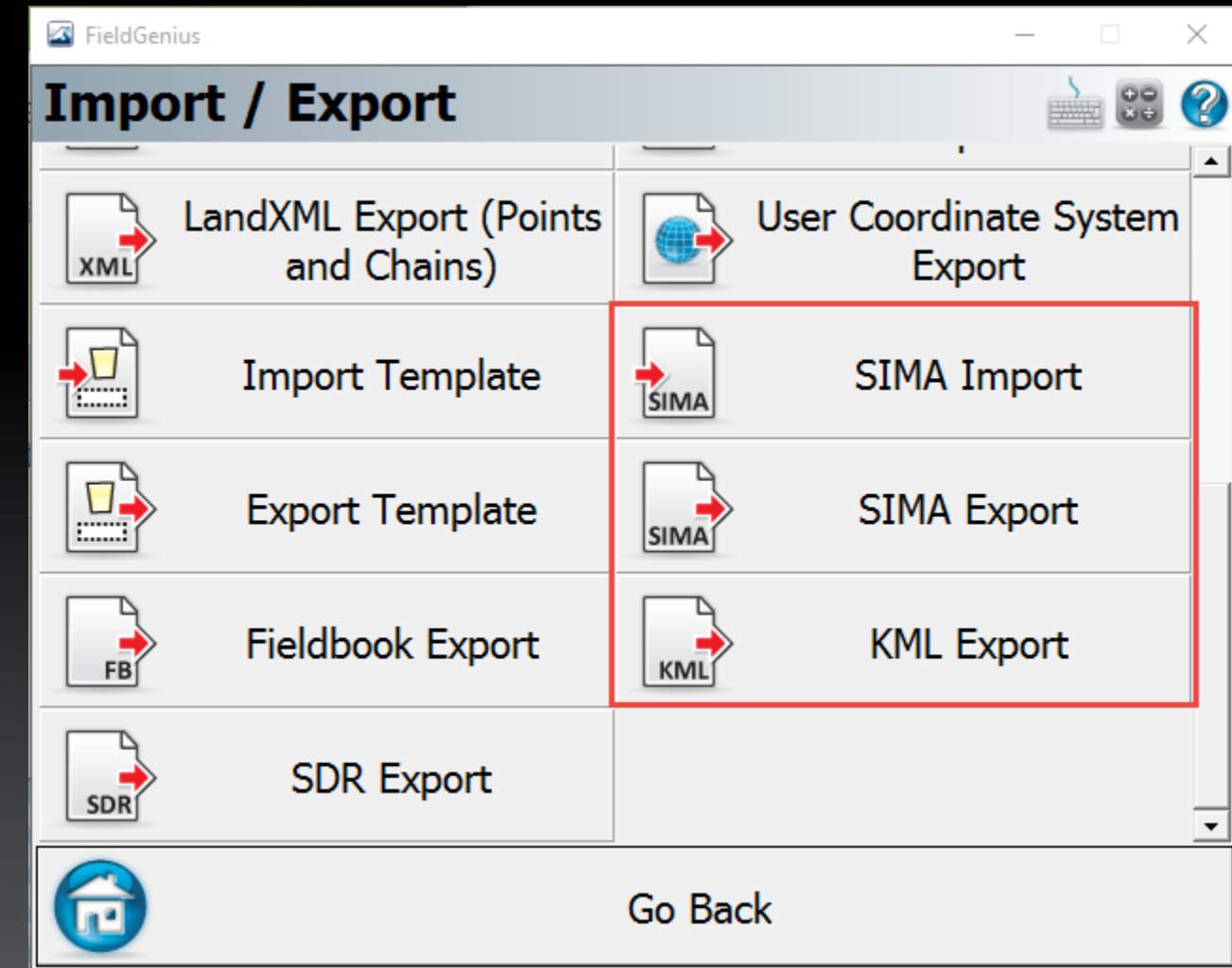
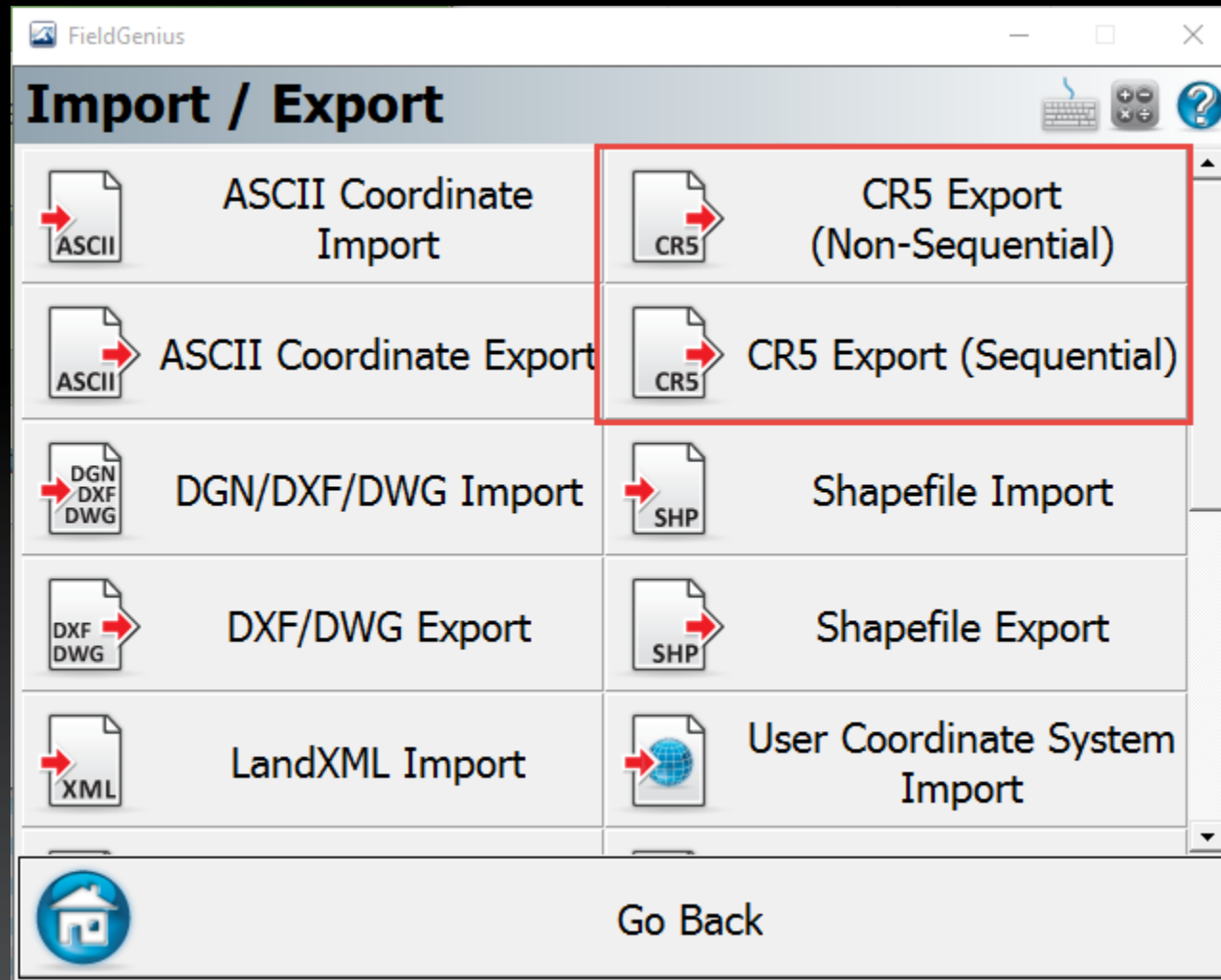
FieldGenius

Target Manager

 Leica Round Prism	 MPR122
 Leica 360 Prism	 Leica HDS Target
 Leica Mini Zero	 Leica Reflective Tape
 Leica Mini Prism	 Reflectorless
 Leica Mini 360	 Custom01

 Target List
  Cancel

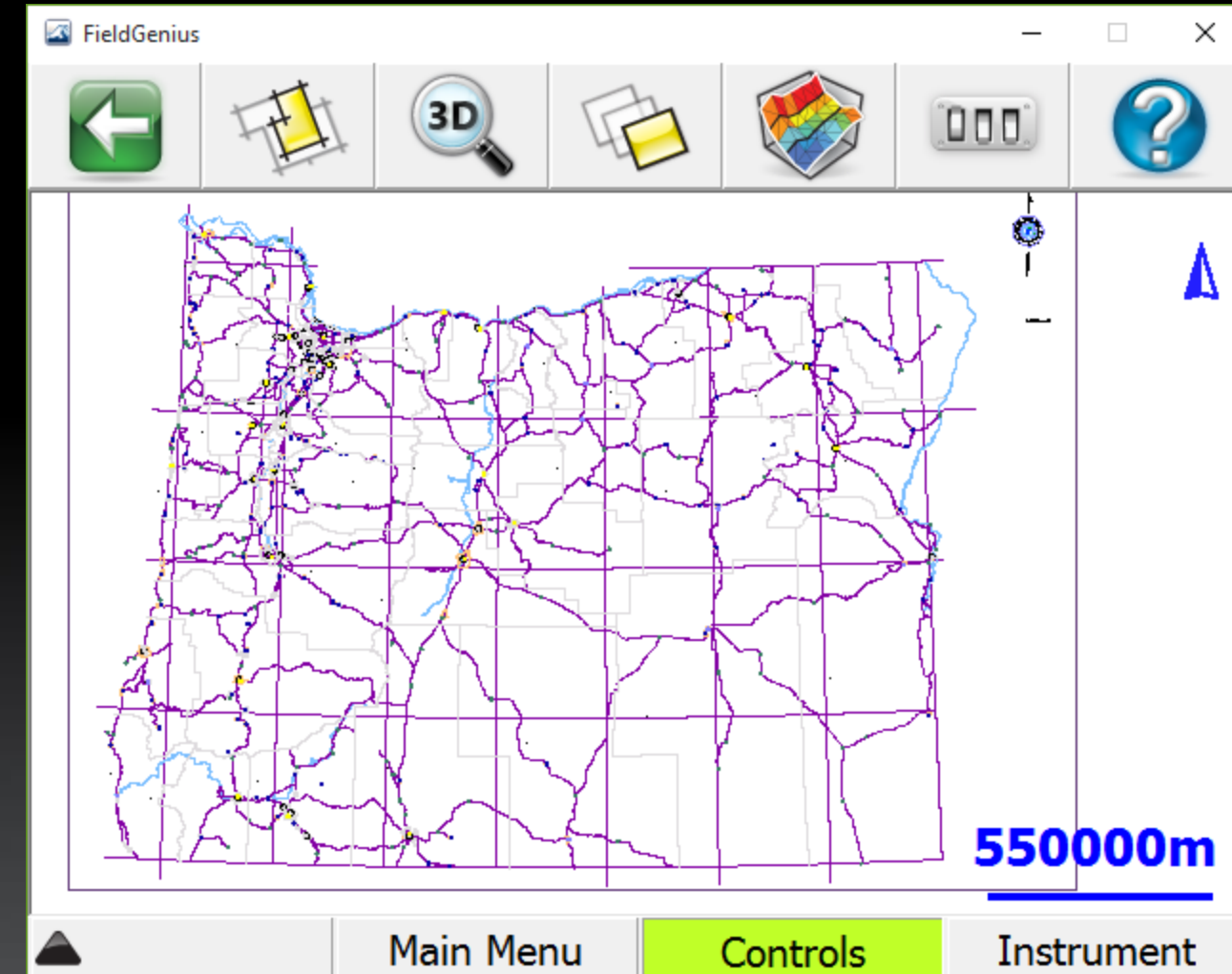
Target Manager Improvements



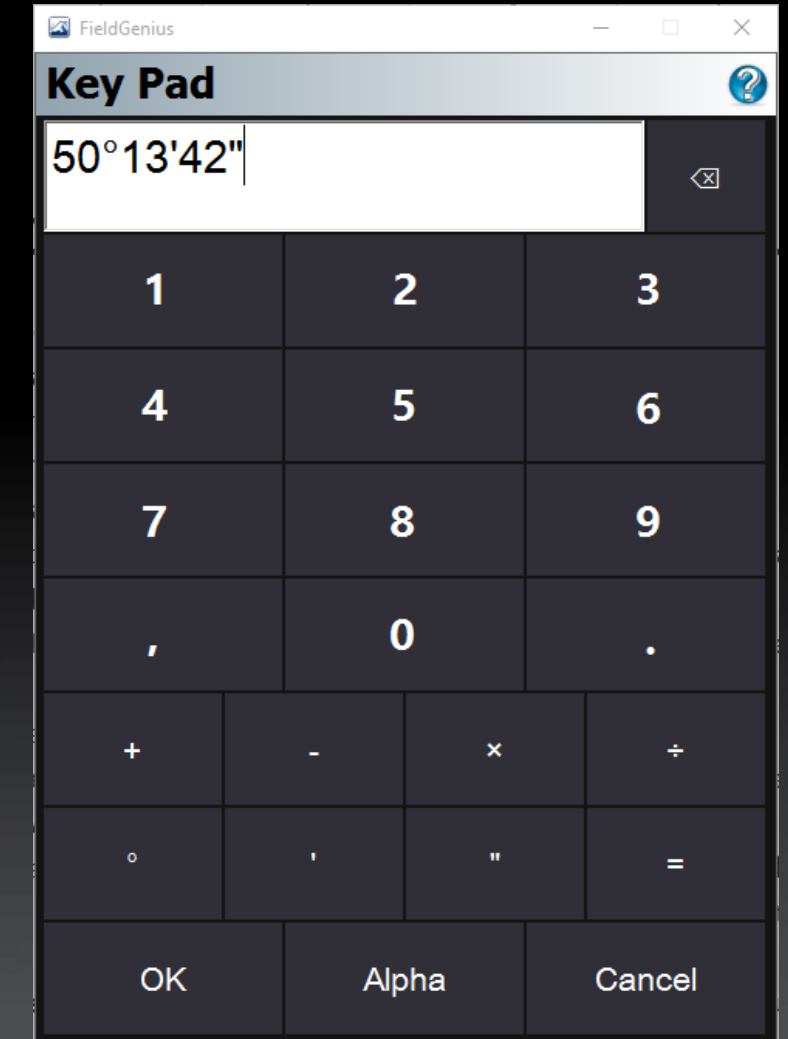
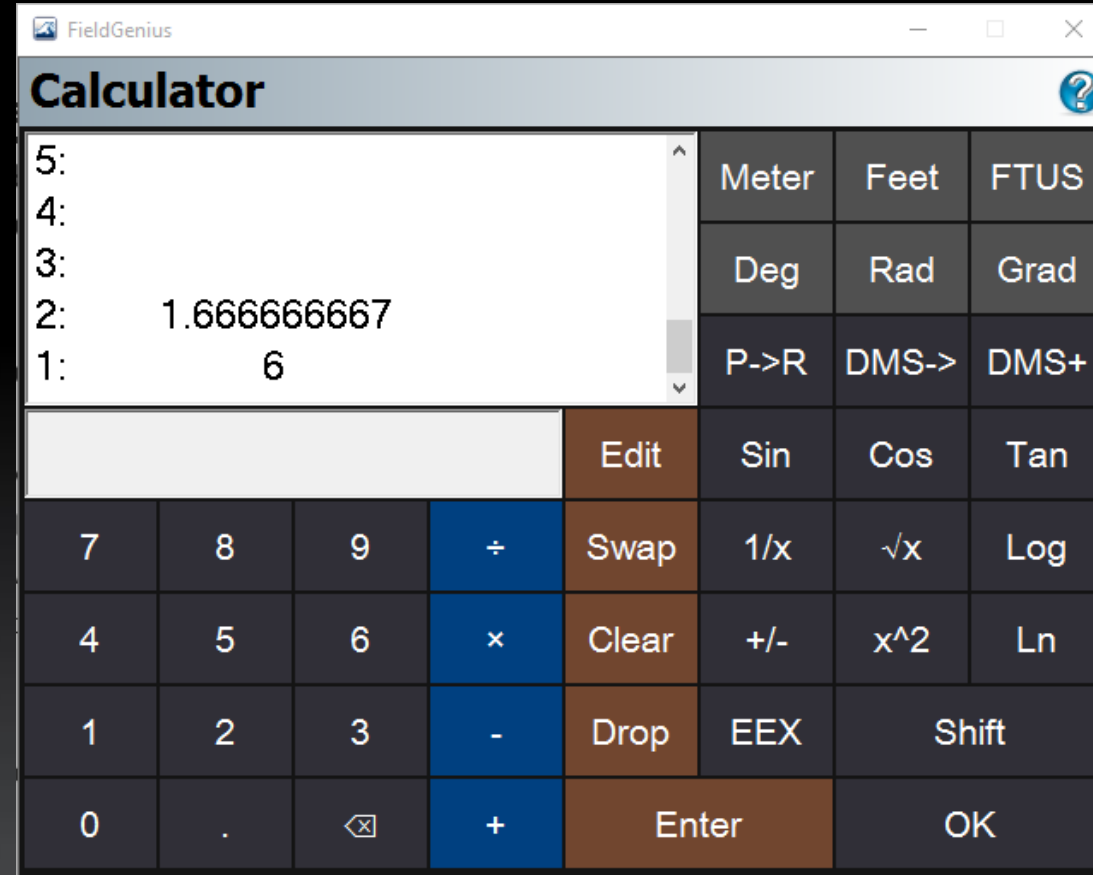
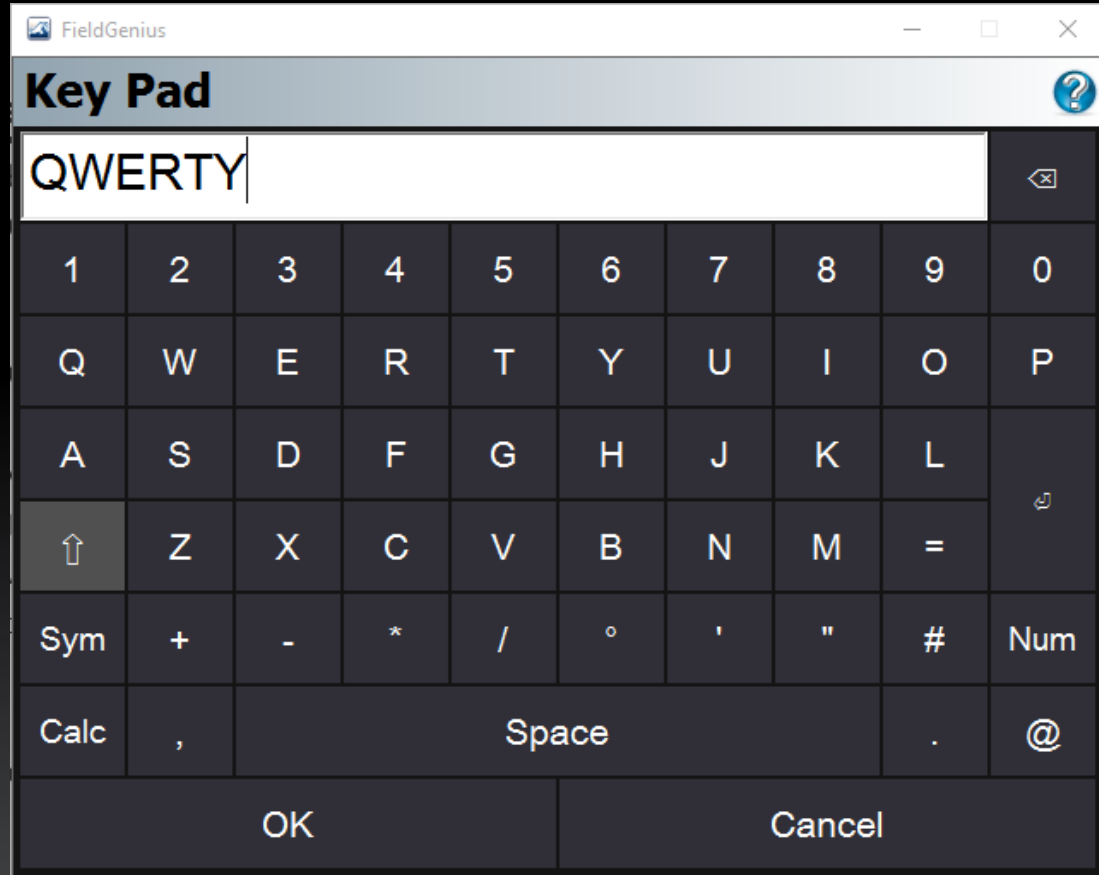
KML & CR5 Export Support

v8.2

New Features



DWG & DGN Format Support



QWERTY Keyboard

Numeric Keypad and Calculator

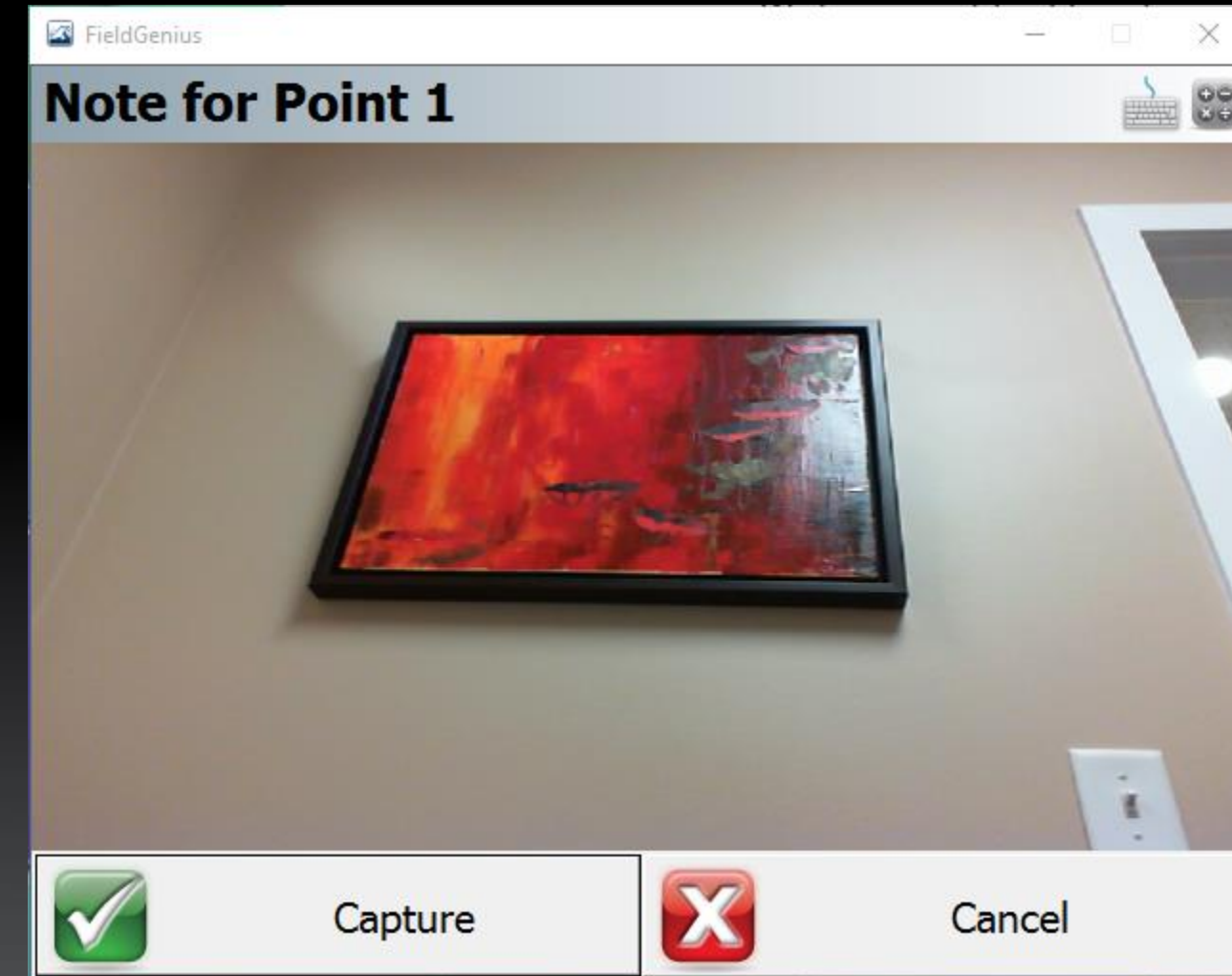
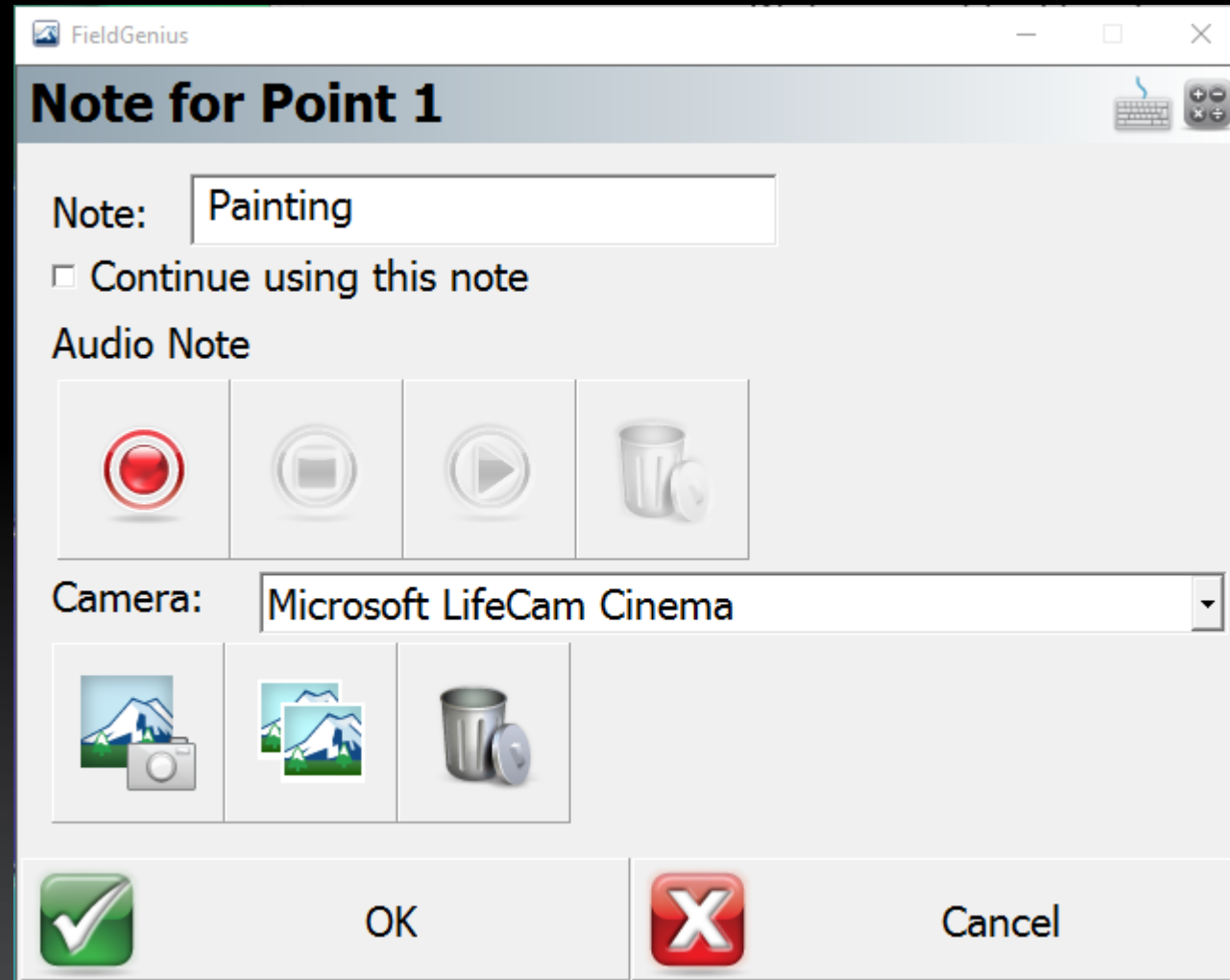
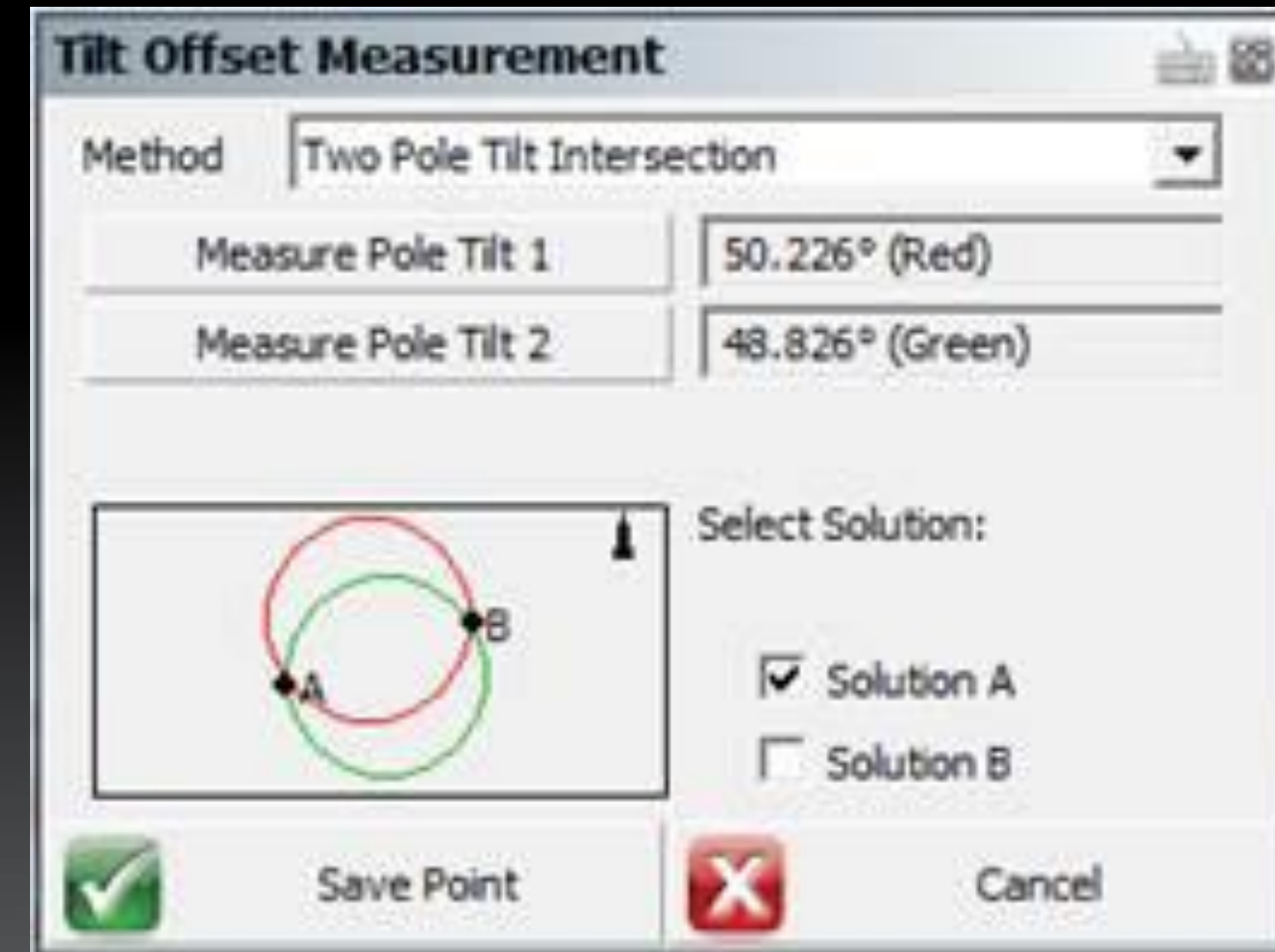
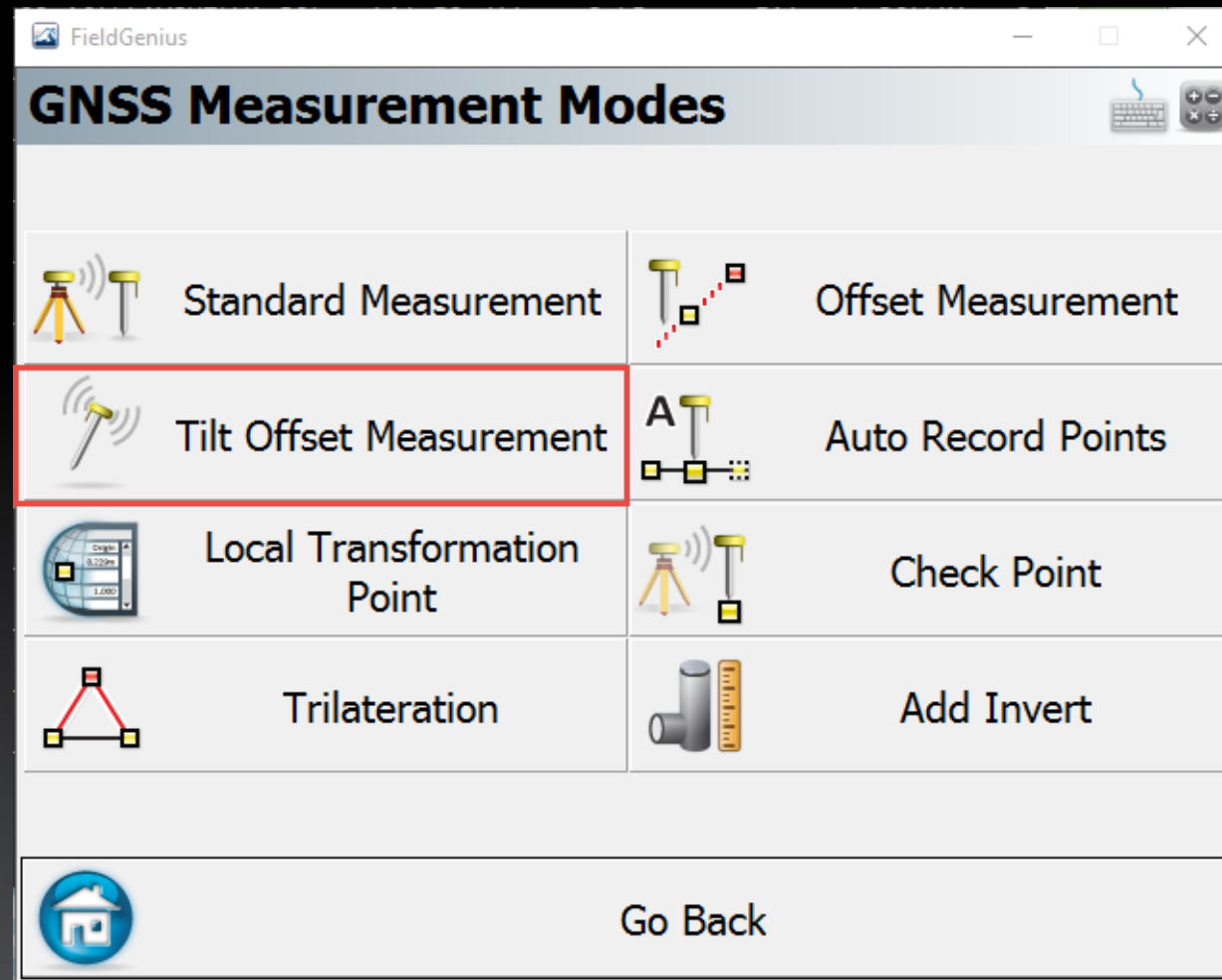


Photo Notes
for more devices



Tilt Offset Measurement

FieldGenius

Point Staking

Point ID: 9 Prev Next

Point Desc: Nearest

Staking List

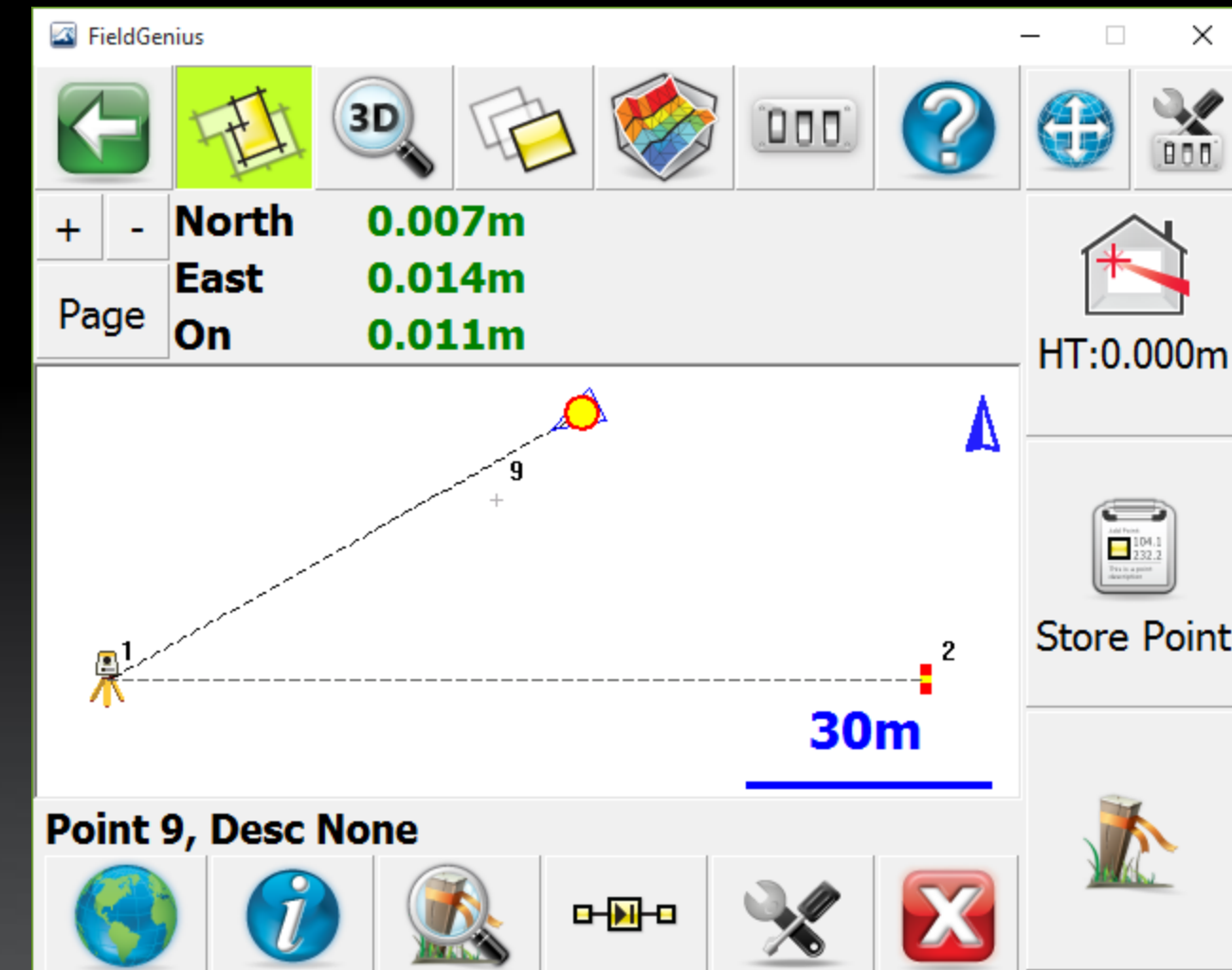
Design Point Offset

Direction	45°00'00"	Northing	32.693m
Distance	15.000m	Easting	57.954m
		Elevation	0.000m

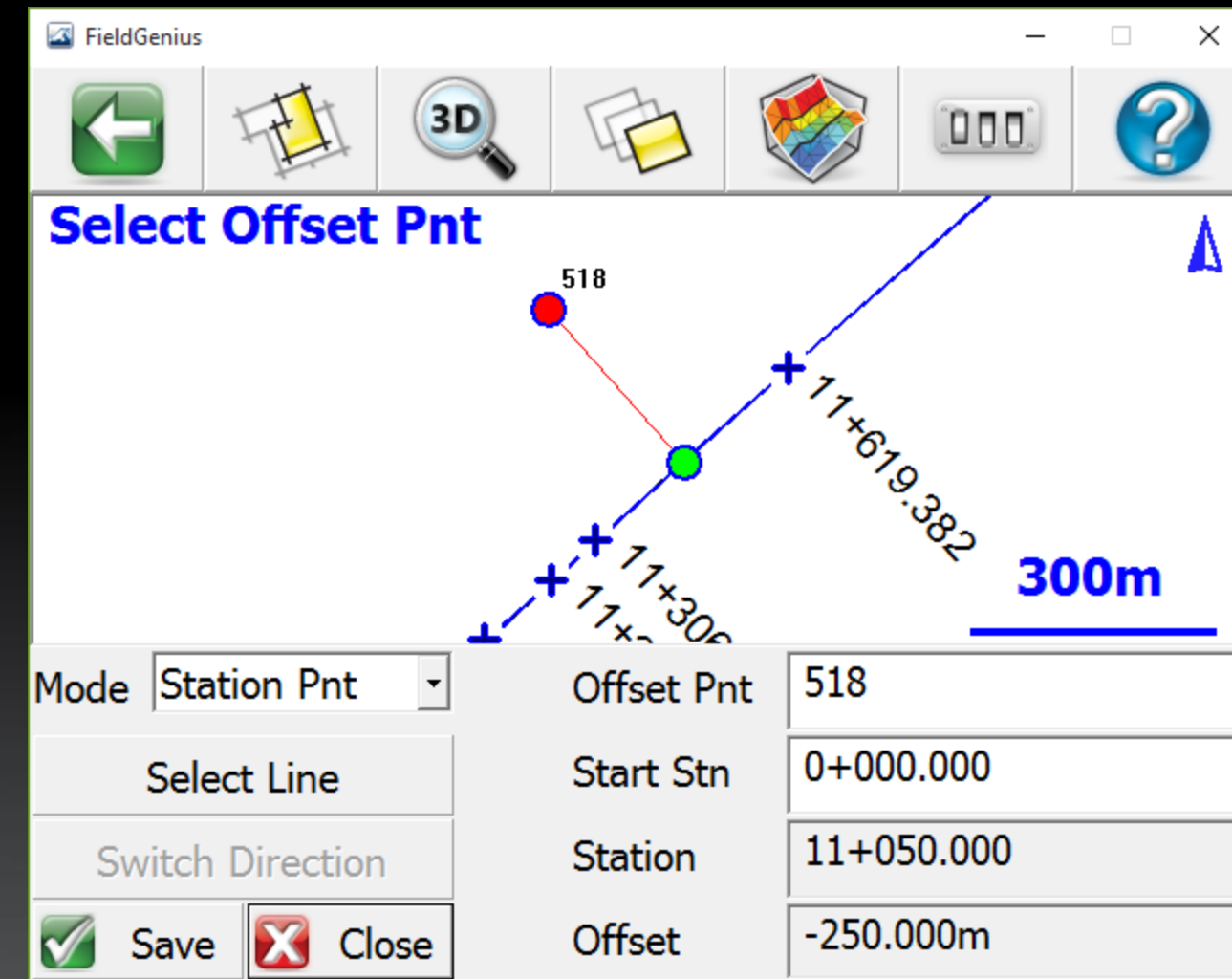
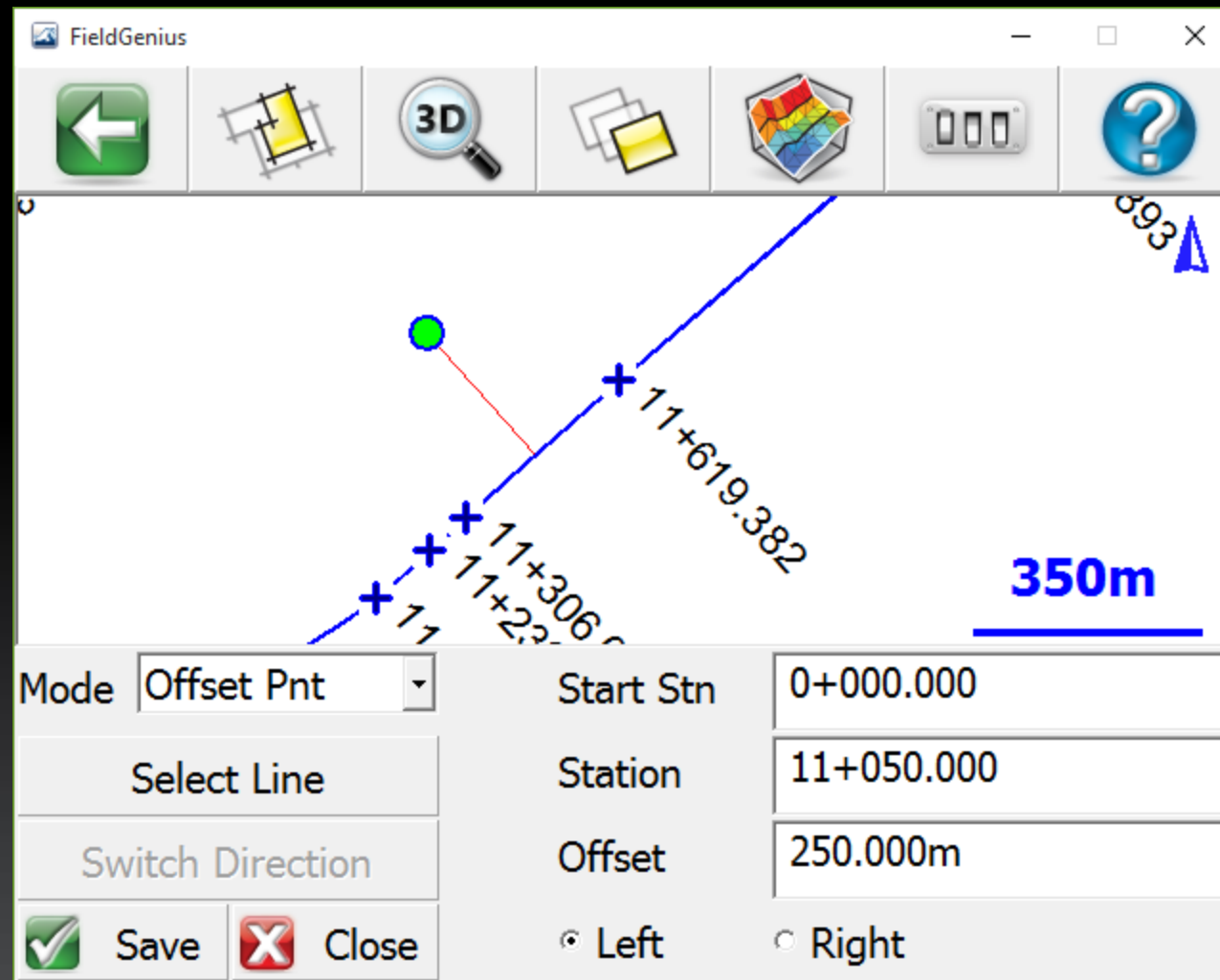
Multi-Offset Mode

☐ Do not show this screen again.

Stake Point Close



Multi-offset Staking Mode

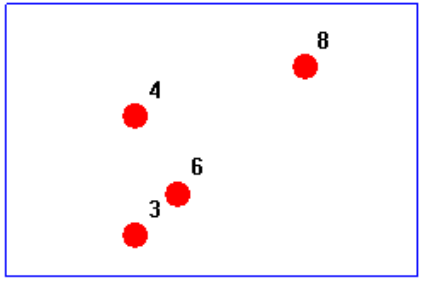


Alignment Offsets

Find Point Records

Point ID	Coordinate	Description
Point ID Criteria		
☒ Select an Area		
☐ Range Example: 1-10, 15, 20..50		
☐ Point and Radius		
Radius Point		
Search Radius		
<input checked="" type="button" value="Find"/> Cancel		

Select Stakeout Points



40m

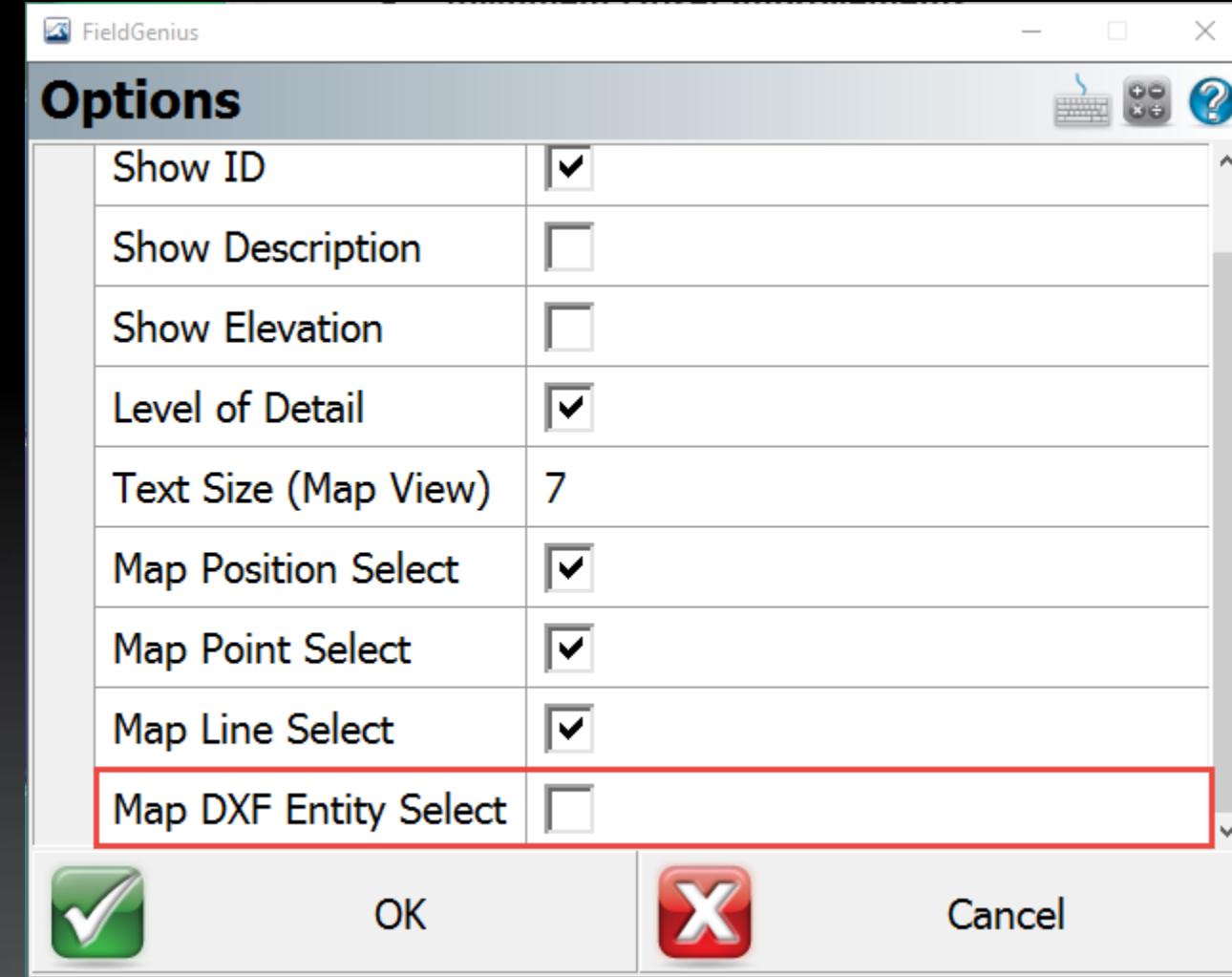
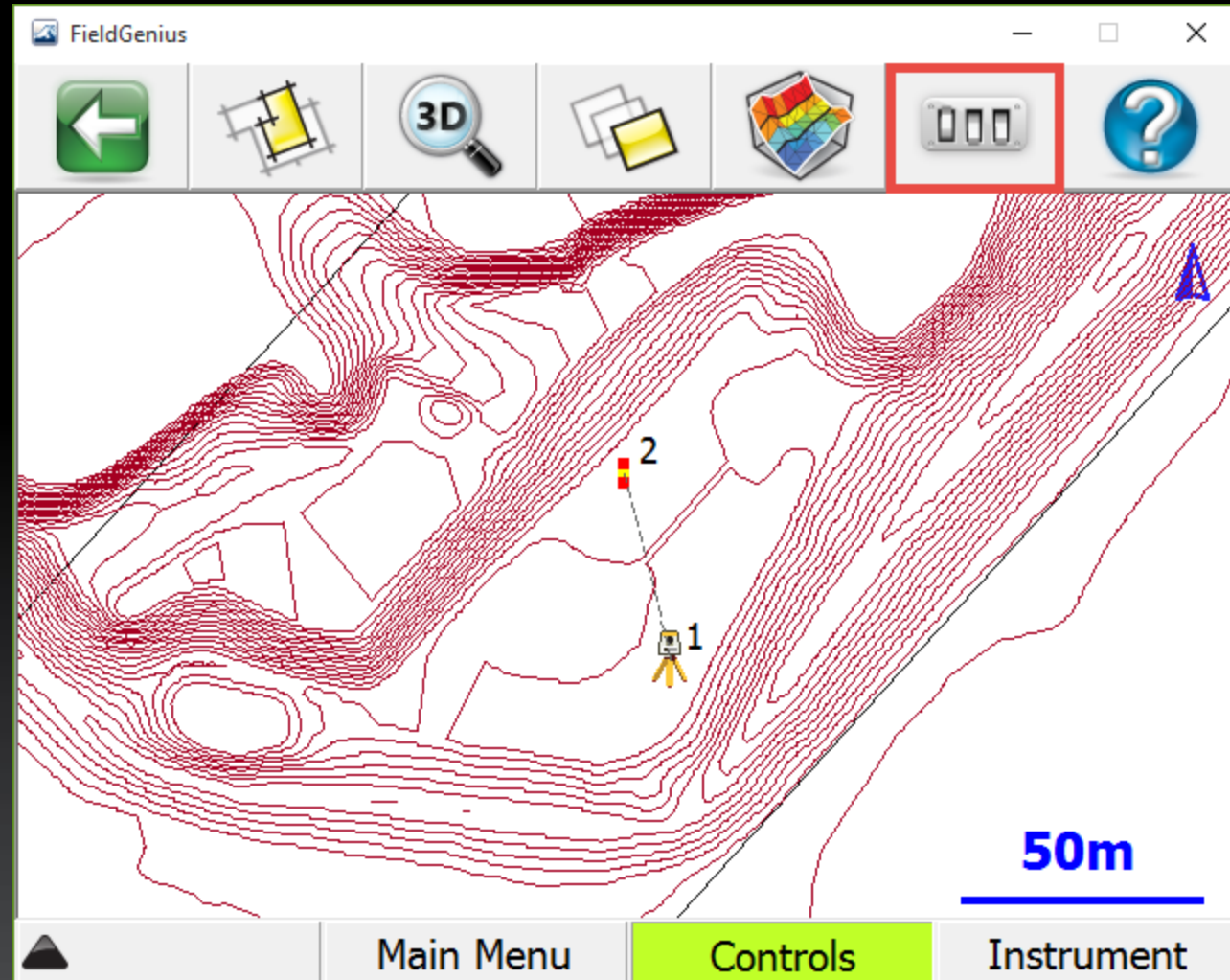
Selection Method: Window Pnts

Staking List

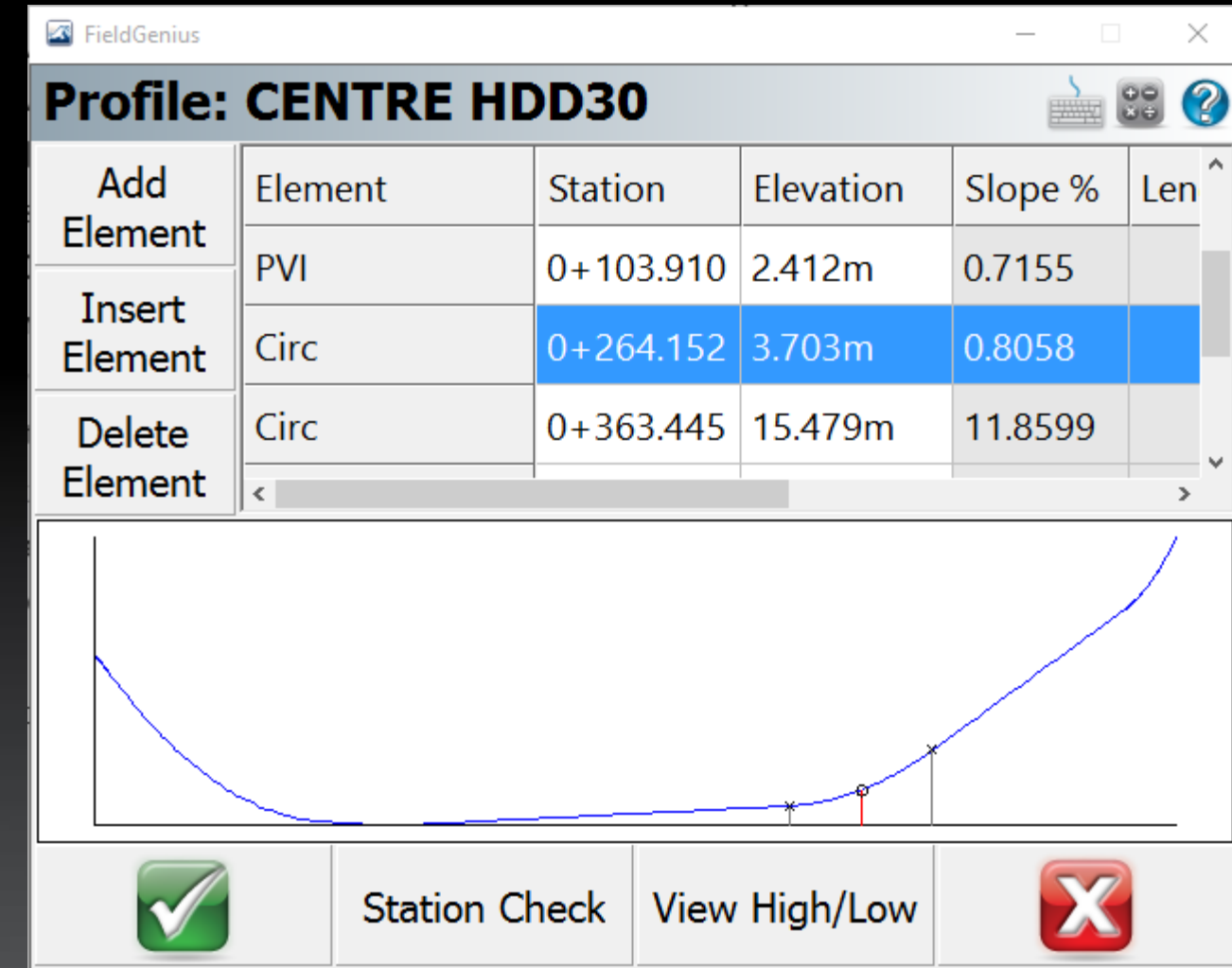
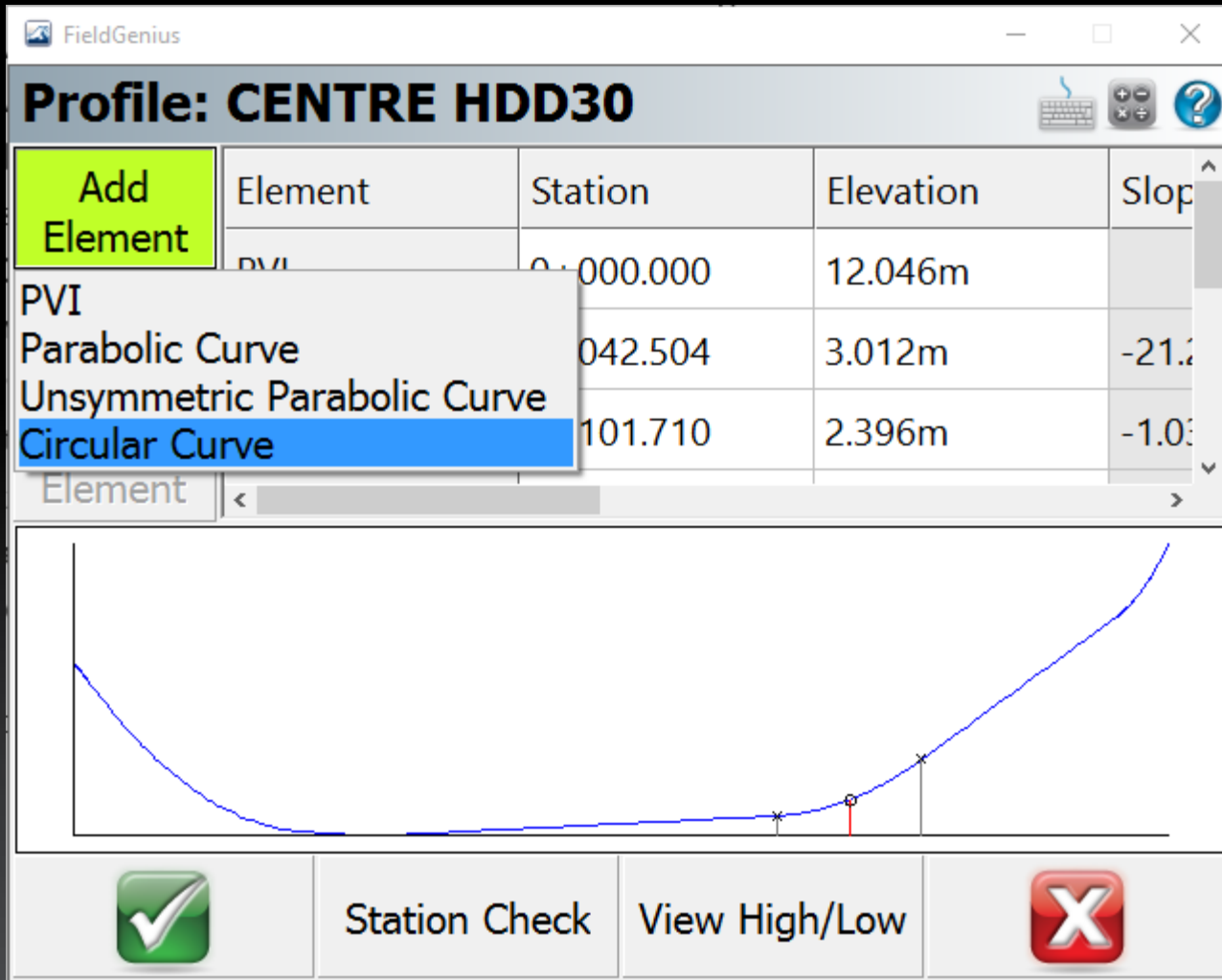
Point ID	Description	Staked Status
3		
4		
6		
8		

Sort By Point ID		Sort By Shortest Path	
Find Points	Remove Points	Move Up	Stake Pnt
Select Point	Remove All Points	Move Down	<input checked="" type="button" value="Close"/>

Graphical Point Staking Selection



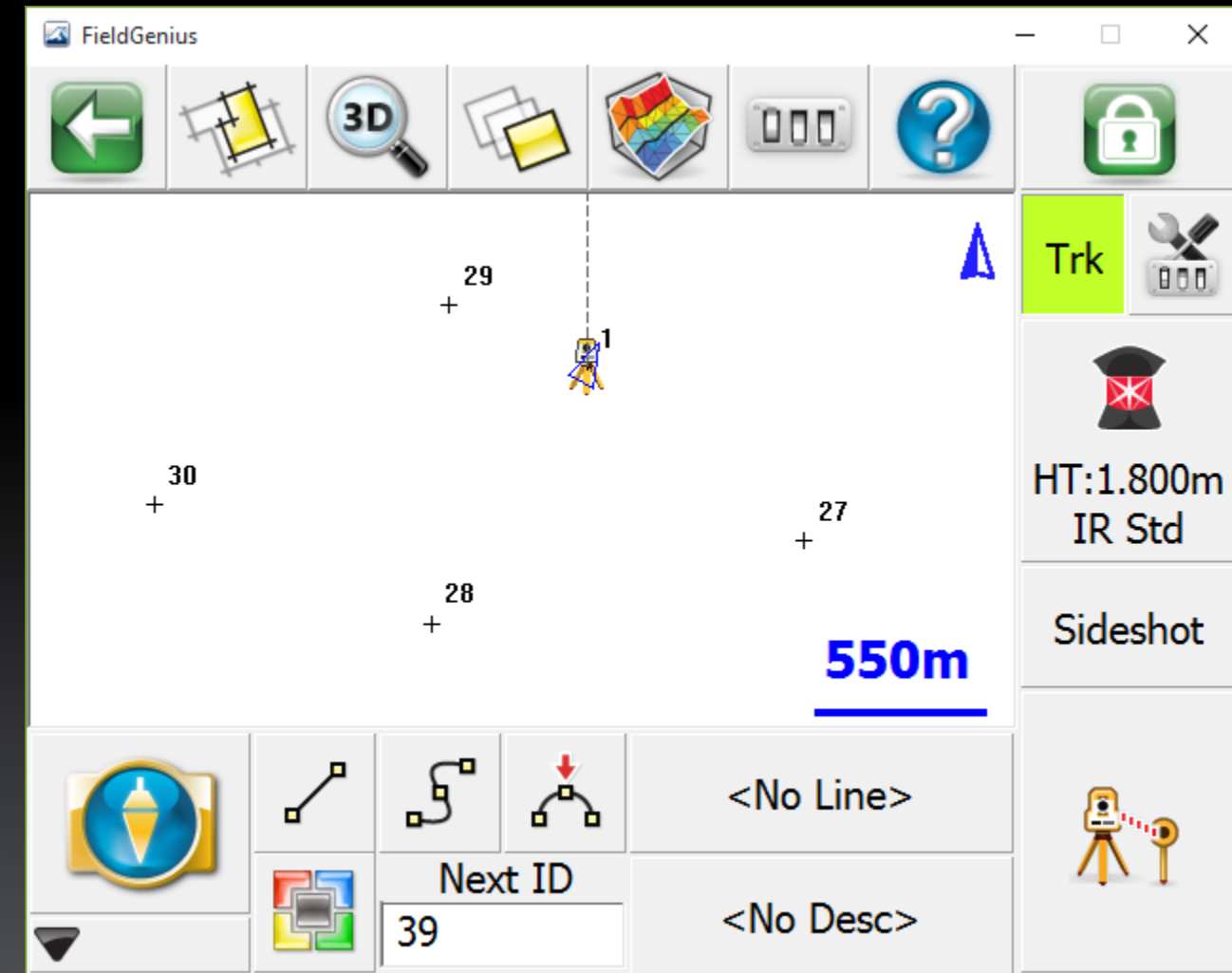
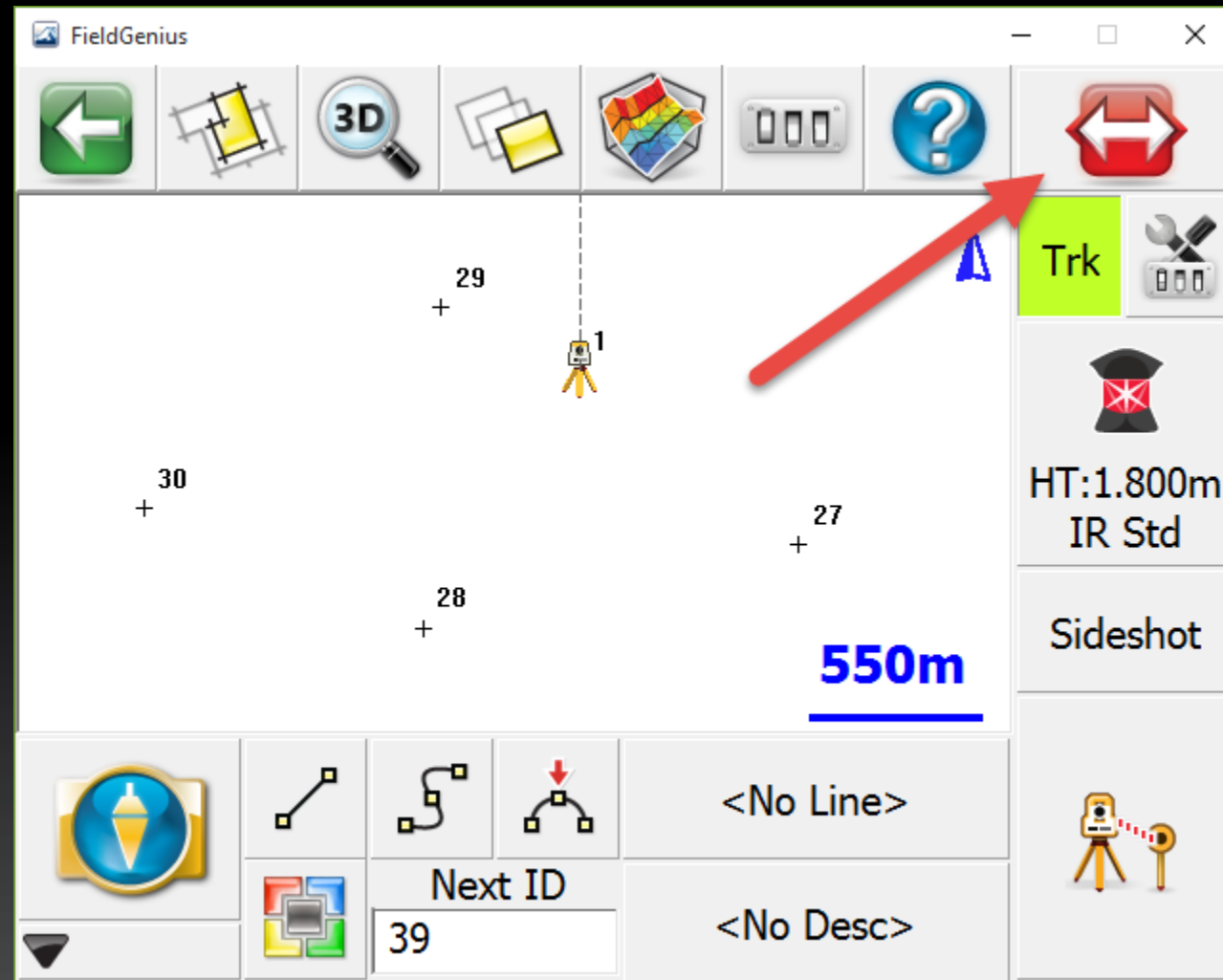
DXF Background Mode



LandXML Circular Curves

v8.1

New Features



Directional Power Search
(Tap either side of the button)

FieldGenius

GNSS Offset Measurement

Direction: 209°07'15" Direction Vector

Horizontal Distance: 3.500m Start Point

Vertical Distance: 1.000m

GNSS Measurement



Northing: 5523089.300m SD H: 0.709m
 Easting: 311582.340m SD V: 0.982m
 Elevation: 384.067m

 Store Point  Close

FieldGenius

Trilateration

Static

Point 1: 39 Add Point Switch Side

Point 2: Save Point Map View

New Pnt

40

Measure

Key Pad Entry

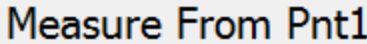
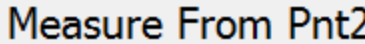
Point Select - Map

Point Select - List

Point Select - New

Cancel

2 Dist	Side	Saved
0m	Right	No

 Measure From Pnt1  Measure From Pnt2  Close

GNSS Offset and Trilateration Improvements

FieldGenius

Stake Alignment: Road 1

Template: I-5

Station	0+000.000	Int	10.000m	Prev	Next
Offset	65.000m	Dir	Left	Left	Right
Stake Offset	65.000m	Setback	0.000m		
Elevation	-3.000m	Vert Offset	0.000m		

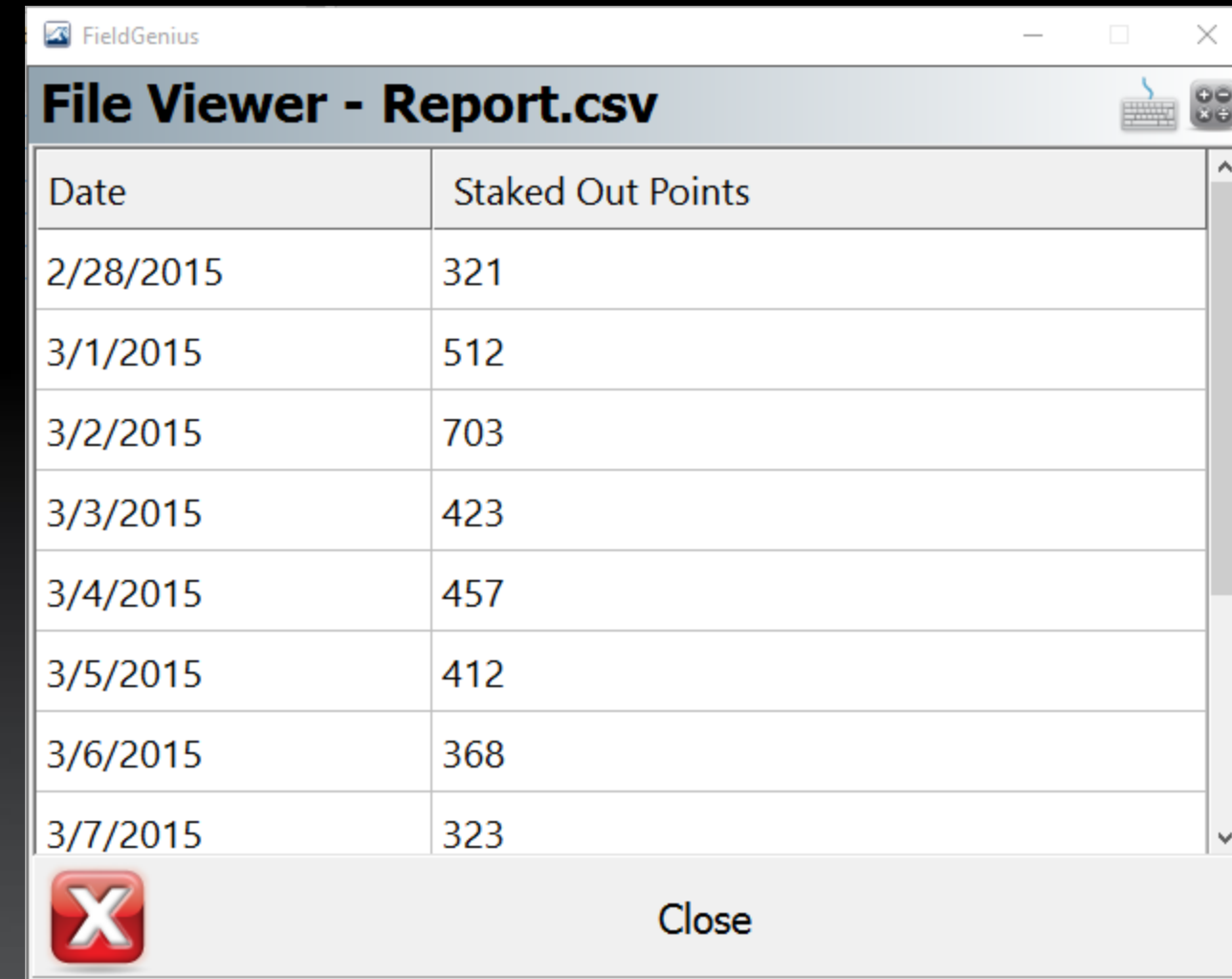
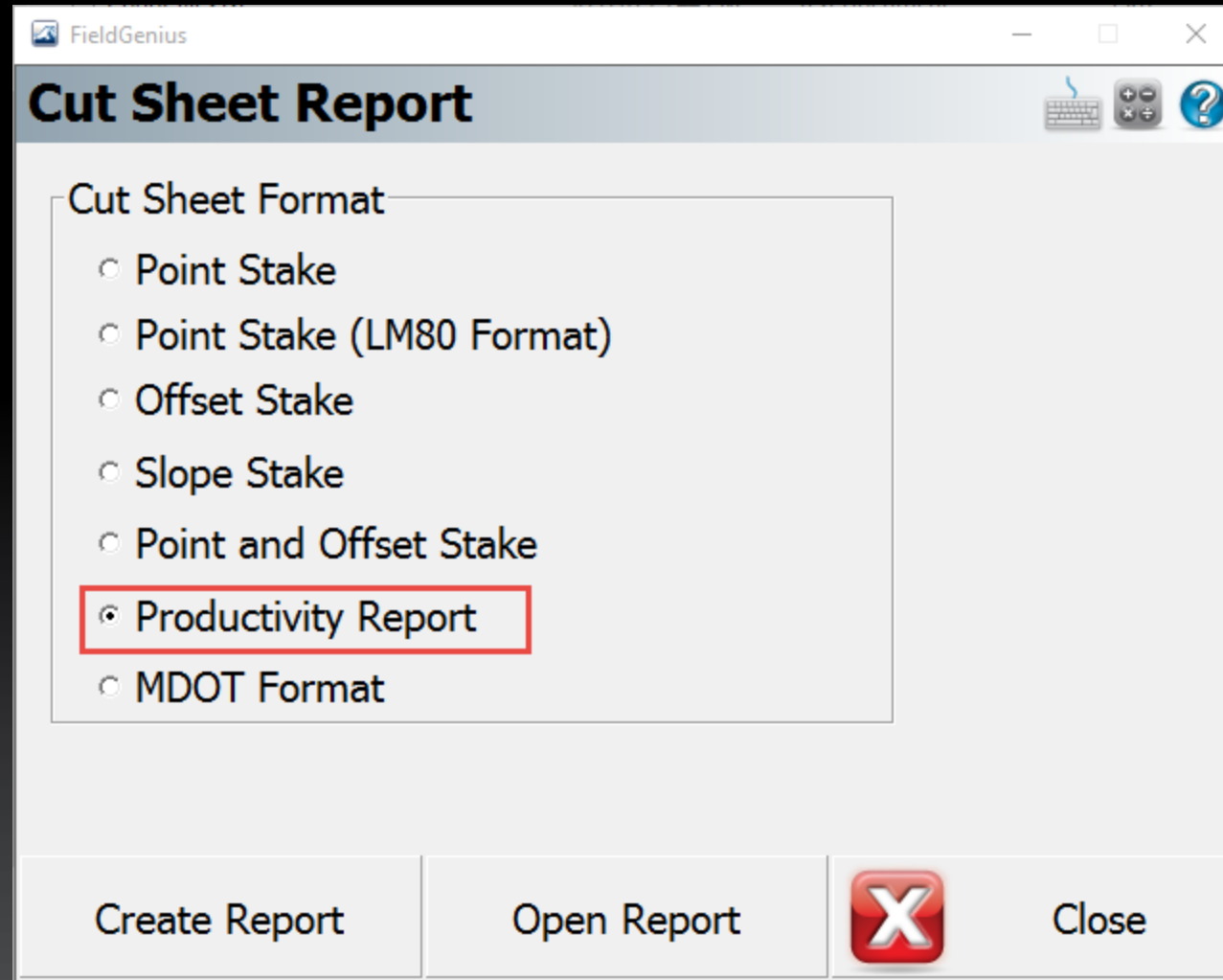
Stake Offset

Stake Slope

Road Editor

Close

Alignment Template Offset Improvements



File Viewer - Report.csv

Date	Staked Out Points
2/28/2015	321
3/1/2015	512
3/2/2015	703
3/3/2015	423
3/4/2015	457
3/5/2015	412
3/6/2015	368
3/7/2015	323

 Close

Stakeout Productivity Report

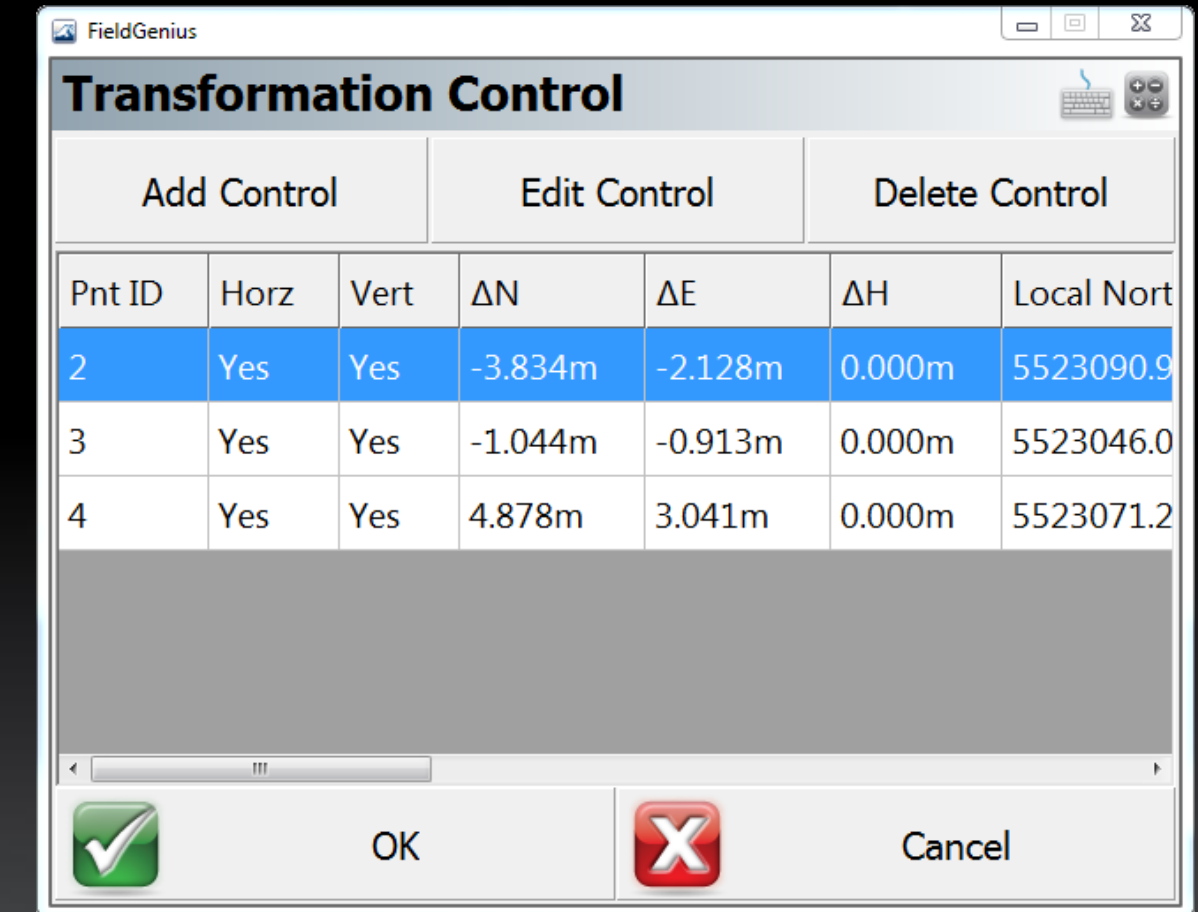
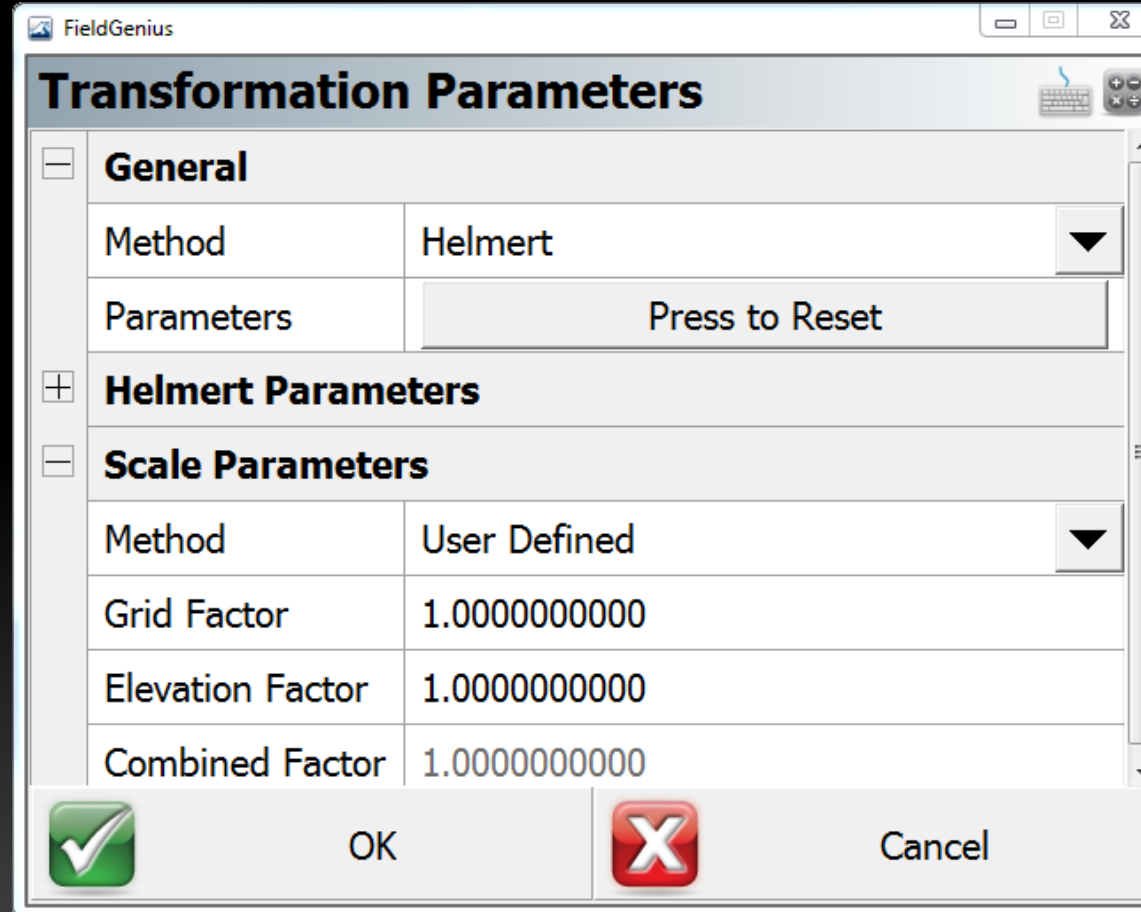
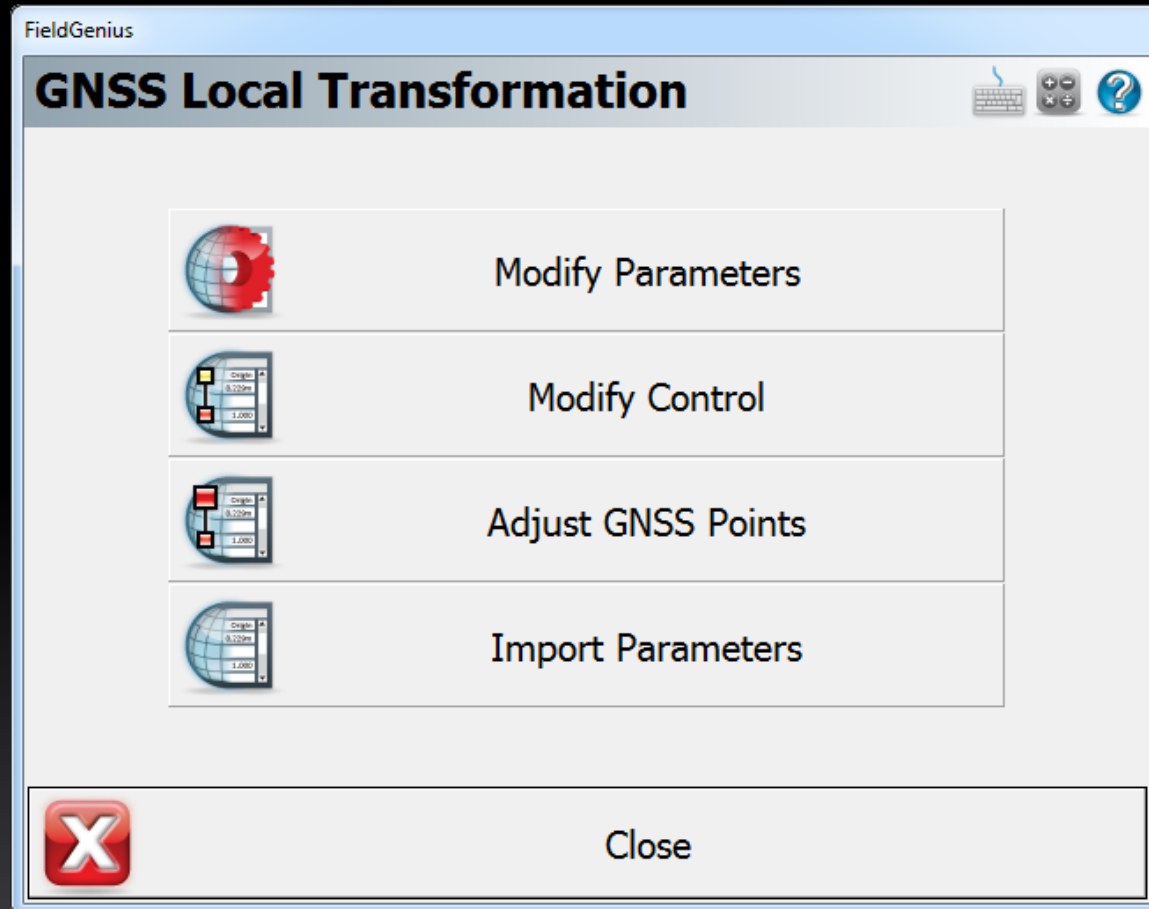
v8.0

New Features

Starting in FieldGenius 8, all features previously in the Advanced Module except for the roading package will be available for FREE to all users, which includes:

- Surfaces, Areas, and Volumes related features
- Advanced Calculations
- Slope Staking, Alignment Staking
- Video Streaming

Module Changes



Redesigned GNSS Local Transformation

FieldGenius

*** Point Averaging 7**

Use	Obs	dDistance	dElevation	Date/Time
☒	0	1.618m	-0.577m	2015-07-22T15..
☒	1			2015-07-22T15..
☒	2	1.847m	0.701m	2015-07-22T15..

Averaged Point:

Northing: 5523907.969m Standard Deviation:

Easting: 312340.145m StdDev N: 1.687m

Elevation: 398.360m StdDev E: 0.409m

StdDev H: 0.642m

☒ Weighted Average

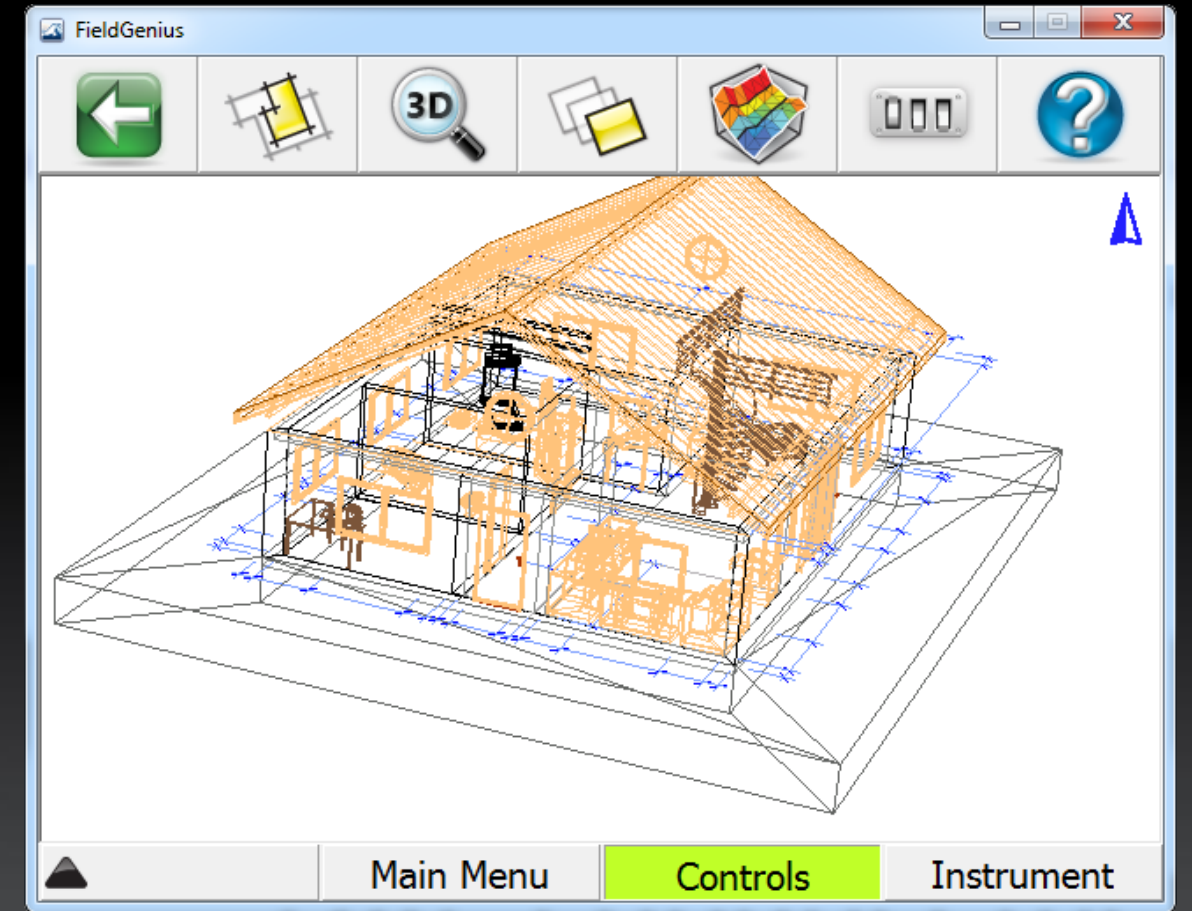
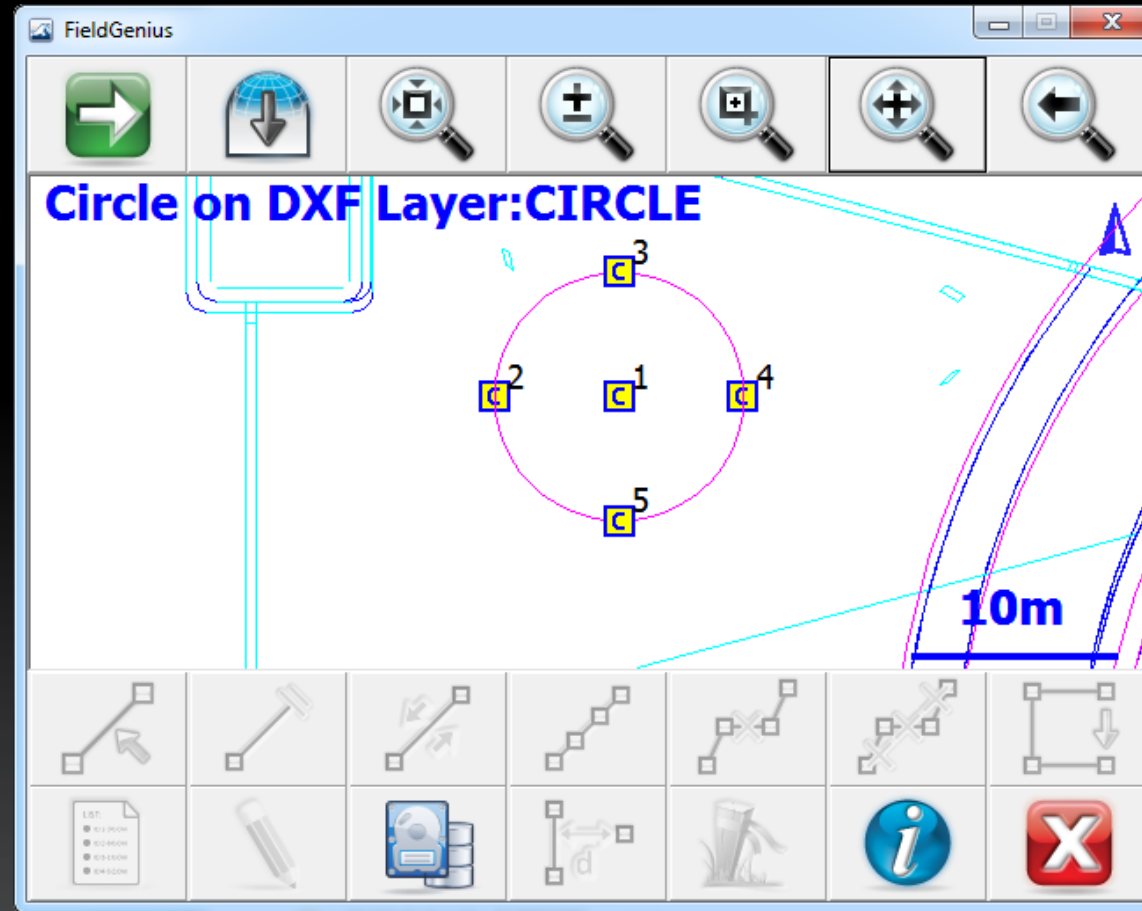
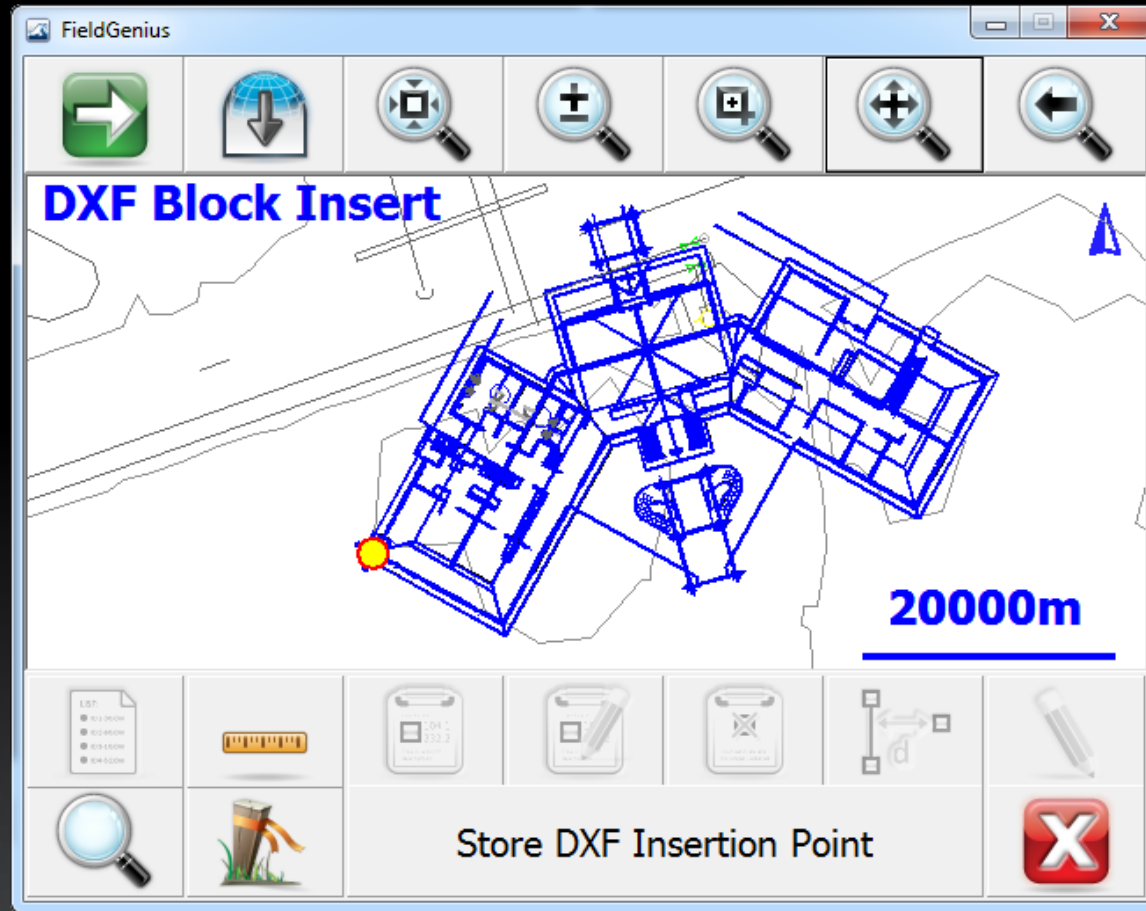
☒ Save  Store Averaged ☒ Cancel

FieldGenius

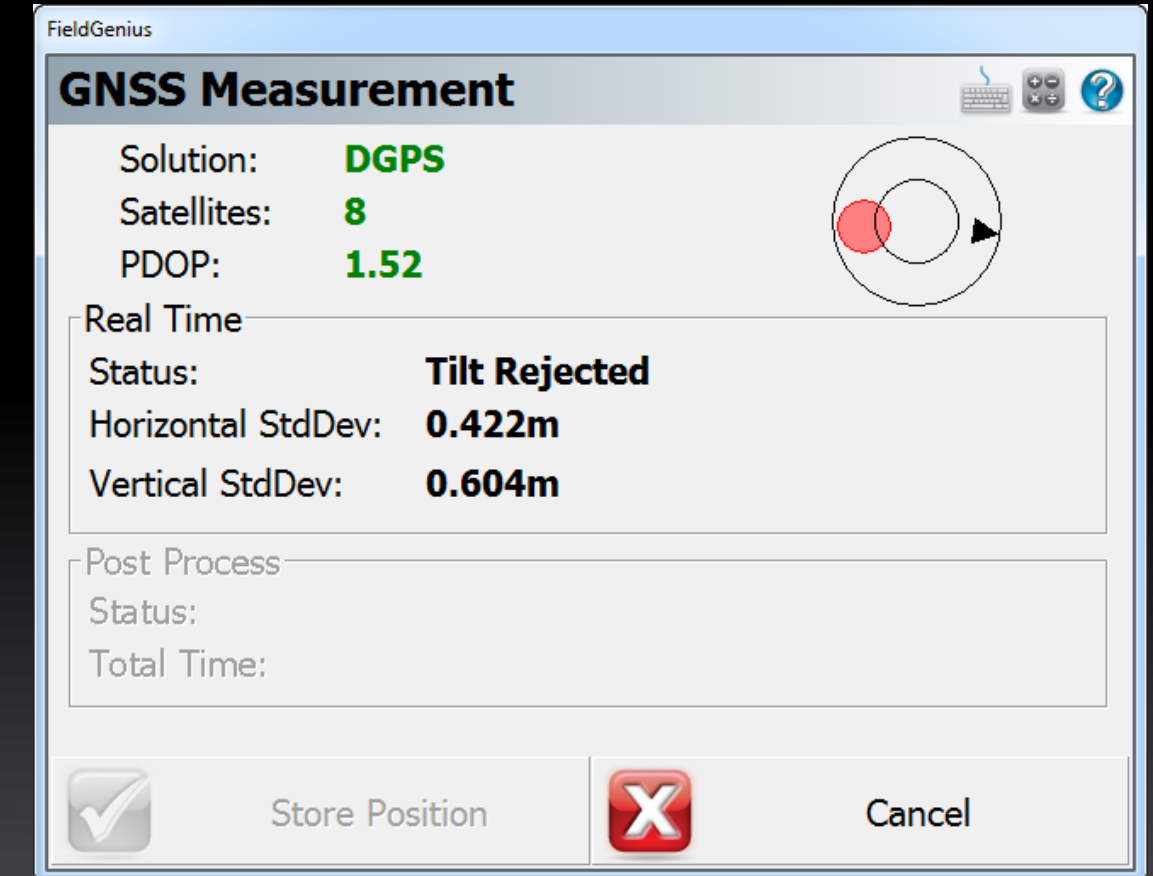
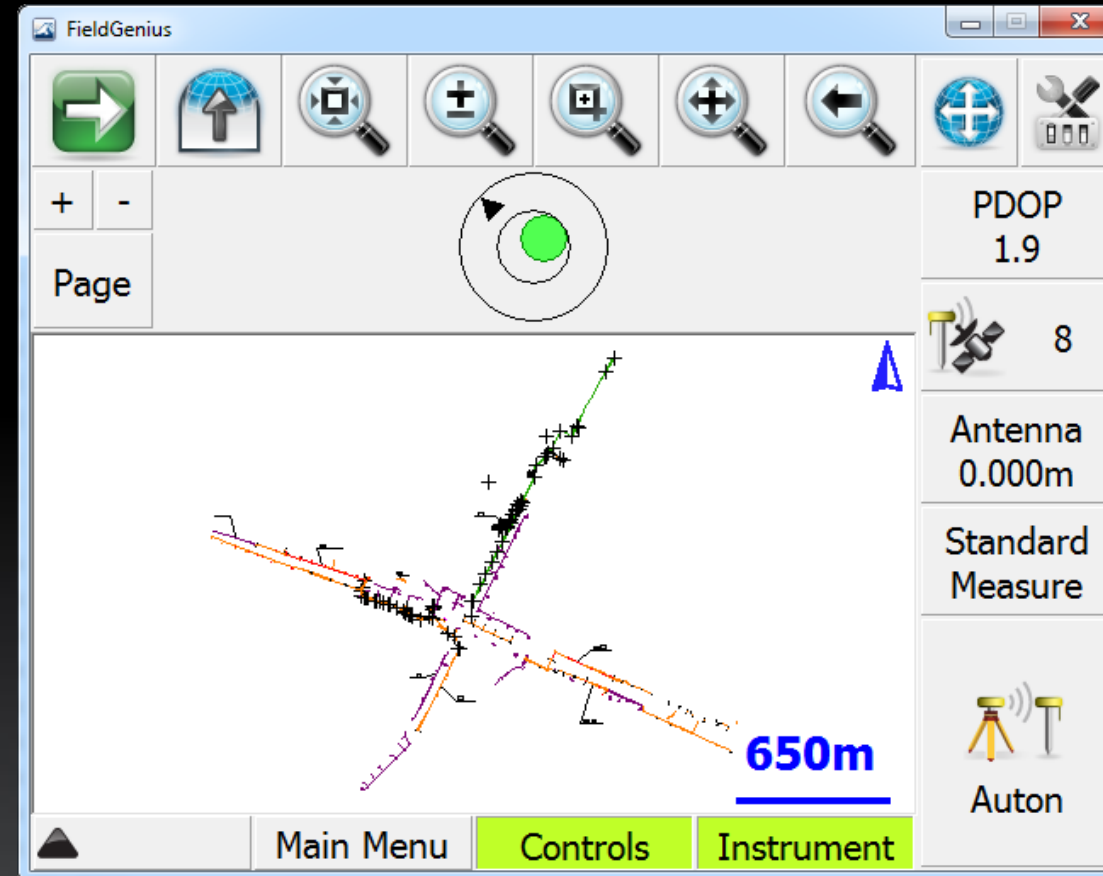
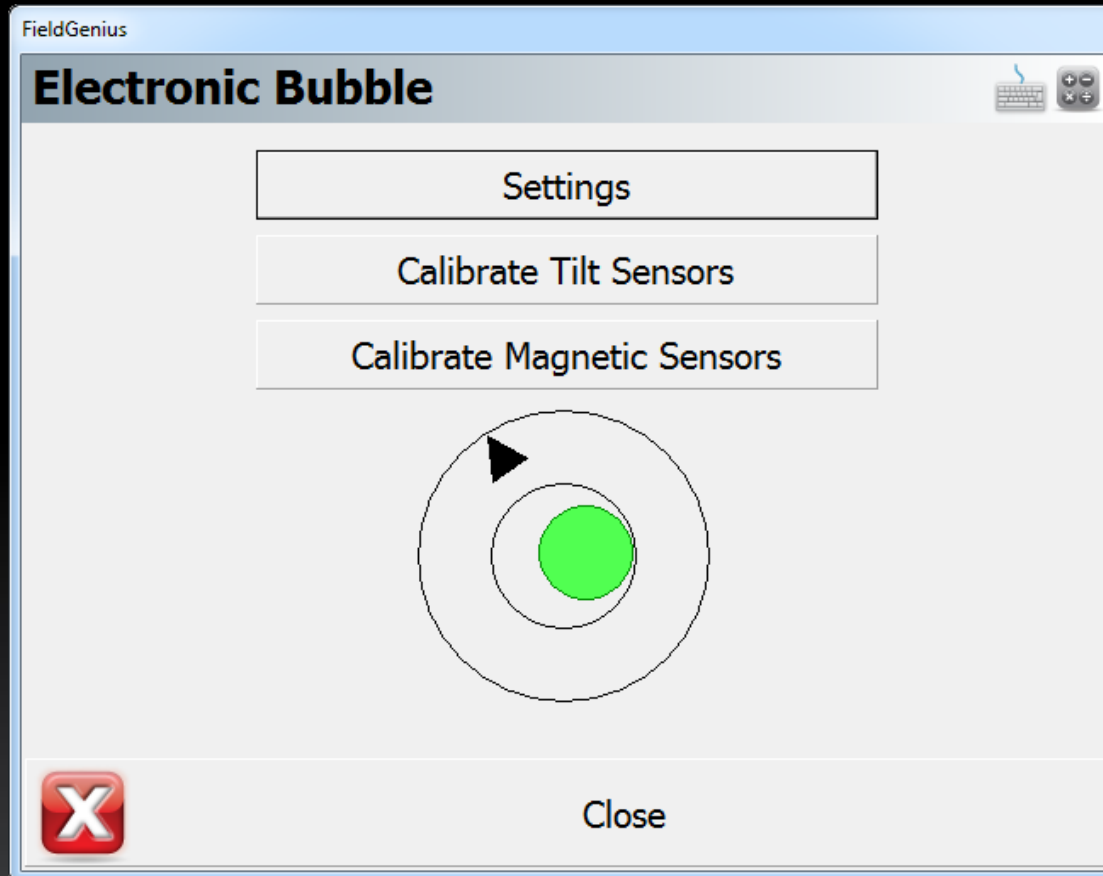
Survey Tools

	Store Points		Traverse Report
	Drawing Tool		GNSS Local Transformation
	Delete Last Saved Point		Bolt Pattern
	Raw File Viewer		Add Raw File Note
	COGO History Viewer		View Averaged Points
 Go Back			

Advanced Point Averaging



DXF Blocks, Circles, Extrusion Vectors



Electronic Bubble for GNSS (Tilt Sensor Support)

FieldGenius

Instrument Selection

Instrument Type

- ☐ Total Station
- ☐ Total Station Demo
- ☐ GNSS Rover
- ☒ GNSS Reference
- ☐ GNSS Demo
- ☐ None

Instrument Profile

厂家

 производство

 製造

 제조

 صناعة

 κατασκευή

☐ Always Auto-Reconnect


 Connect
 
 Close

FieldGenius

Point Database

Point ID		Elevation	Description	Code
1		100.000m	第一点	
2		0.000m	النقطة الثانية	
3		0.000m	điểm	
4		0.000m	포인트	
5		0.000m	точки	


 Edit
 Delete
 Add
 Find
 

Unicode Encoding

GeoMax FieldGenius

Basic Measure

Horizontal Angle: 77°42'39"	Horizontal Distance: 3.084m
Vertical Angle: 70°31'38"	Vertical Distance: 1.090m
	Slope Distance: 3.271m

Plate Angle:
  Set Laser Pointer Off

☒ OK  Target Manager  Measure

GeoMax FieldGenius

Unit Settings

Distance Unit Meters	Angle Unit Degrees
Format	Format DDD°MM'SS.s
Precision 3	Precision 1

Direction Format

Scale Factor

☐ Curvature and Refraction Correction

☒ OK  Cancel

Dropdown menu options: Highest Available, 0.01, 0.1, 0.2, 0.5, **1**, 2, 5, 10

Total Station Improvements

FieldGenius

Figure List

Show Active Figures		Switch Active State		New Figure	Close Figure	Delete Figure
Line 	Active	Description	Pnts	Closed		
1	Yes	No Desc	4	No		
2	Yes	No Desc	3	No		

 OK
GIS Attributes
 Cancel

Figure 1

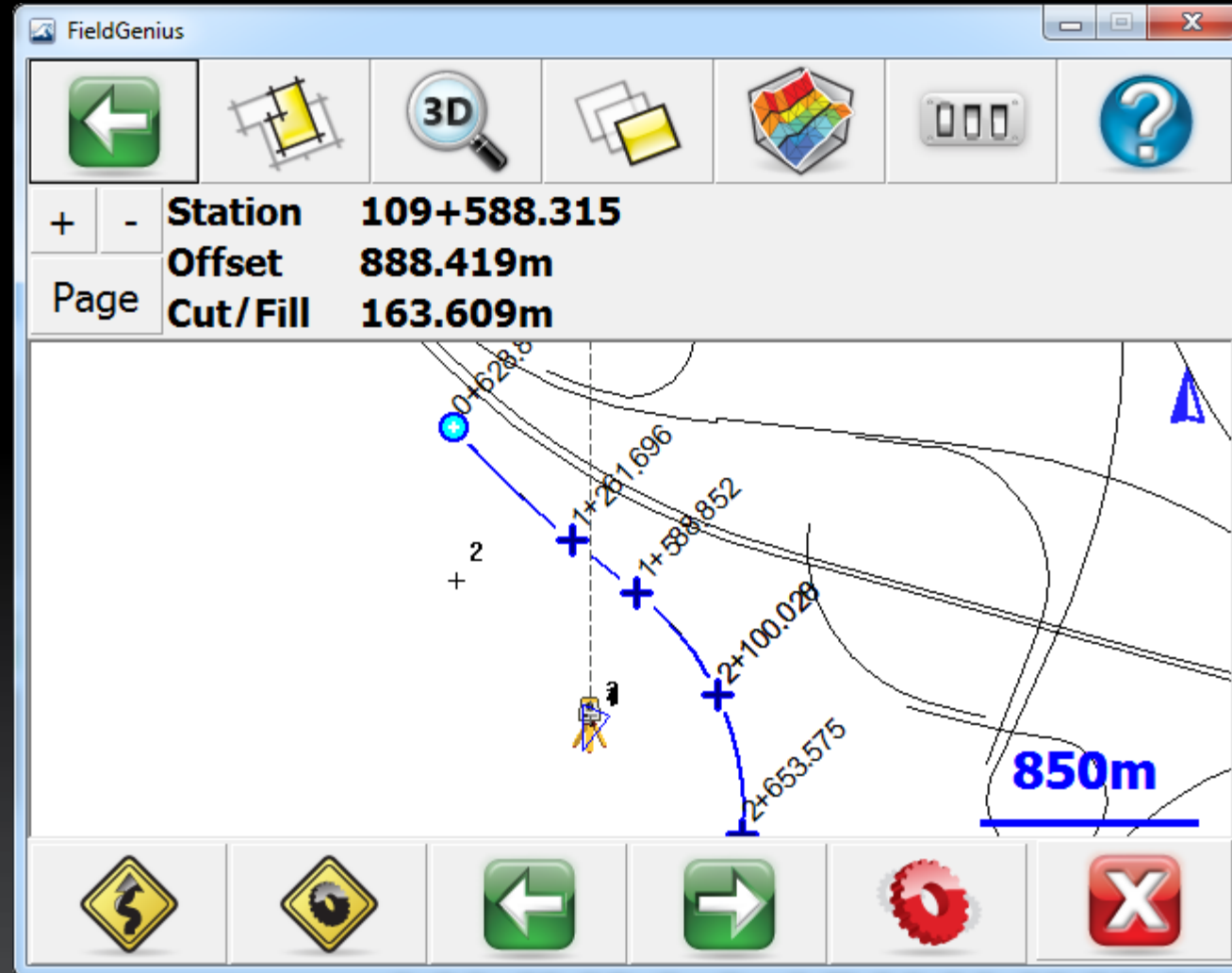
Figure 1

Feature GIS
Default
Previous

 Pole	Wood
^A _B ^C Condition	Good
¹ ₂ ³ Height	20.00
^T / _F Replace	☒

 OK
 Cancel

GIS Attributes for Figures



The Options dialog box in FieldGenius shows settings for the Roding alignment. The settings are as follows:

Option	Value
Stationing Format	0+000.000
Force Tangential	☐
Dynamic Horizontal Alignment	☒
Label Elements	☒
Label Interval	100
Label Orientation	45 Degrees

Alignment Improvements

Toolbar, Station/Offset/Cut/Fill, Options

FieldGenius

Export ASCII File

Point List: All

Precision: 3 Field Delimiter: Comma

Angular Format: DMS Encoding: ANSI

☐ Include Header
☒ Include Averaging Measurements

Output Format: Extended

New Format Edit Format Delete Format

 OK  Cancel

FieldGenius

Options

Sort By: Point ID

GNSS Time Format: UTC Time

 OK  Cancel

ASCII Export Improvements

Be sure to check out the full release notes to see all the changes

- [v8.3 Release Note](#)
- [v8.2 Release Note](#)
- [v8.1 Release Note](#)
- [v8.0 Release Note](#)

Release Notes

- Acnovo
- CHC
- ComNav
- Champion
- DT Research
- FOIF
- geo-FENNEL
- GeoMax
- Geneq
- Gintec
- Hi-Target
- Hemisphere
- Horizon
- KOLIDA
- KQ GEO
- Laser Technology
- Leica
- Linertec
- NavCom
- PENTAX
- Prexiso
- Ruide
- Sanding
- Septentrio
- Stonex
- South
- TEXCEL
- ZSurvey

Supported Instruments Updates