Import	FieldGenius	Other Surveying Software
ASCII	$\checkmark$	
DXF	$\checkmark$	
DWG	$\checkmark$	
DGN		
LandXML		
User Coordinate Systems		
Drawing Template		~
Export		
ASCII	<b>~</b>	$\checkmark$
DXF	<b>~</b>	$\checkmark$
DWG	<b>~</b>	$\checkmark$
FBK	$\checkmark$	
Shapefile	<b>~</b>	$\checkmark$
User Coordinate Systems	$\checkmark$	$\checkmark$
RAW/RW5	<b>~</b>	<b>~</b>
KML	<b>~</b>	<b>~</b>
Sokkia SDR	<b>~</b>	<b>~</b>
Drawing Template	<b>~</b>	<b>~</b>
Project Management		
Create New	<b>~</b>	<b>~</b>
Open Existing	~	<b>~</b>
Delete	<b>~</b>	<b>~</b>
Define Storage Location	<b>~</b>	<b>~</b>
Job Details		<b>~</b>
Instrument Details	<b>~</b>	~
Crew Details		<b>~</b>
Instrument Settings, Conventional		
EDM Measurement Modes	<b>~</b>	<b></b>
Baud Rates	<b>~</b>	<b>~</b>
Time Out	<b>~</b>	<b>~</b>
Min/Max Distance	~	<del></del> -
Prims Offsets	<b>~</b>	
HA, VA, HD Tolerances	~	~

Curvature and Refraction	~	<b>~</b>
Instrument Settings, Robotic	_	
Search Modes (Window)	<b>~</b>	<b>~</b>
Search Window Range	<b>~</b>	$\checkmark$
Search Window Center	<b>~</b>	<b>~</b>
Radio Connection Settings	<b>~</b>	$\checkmark$
Guide Lights	<b>~</b>	<b>~</b>
Instrument Control		
Set Fine/Coarse Distance Mode*	<b>~</b>	<b>~</b>
Set Measurement Parameters*	$\checkmark$	$\checkmark$
Set Prism Offsets*	<b>~</b>	<b>~</b>
Set Prism Target Height	$\checkmark$	$\checkmark$
Set Backsight Reading on Instrument*	<b>~</b>	<b>~</b>
Use Joystick to Turn Horizontally and Vertically	<b>~</b>	$\checkmark$
Navigate to Point when Staking	<b>~</b>	<b>~</b>
Control of Robotic Functions	<b>~</b>	$\checkmark$
Search for Prism	<b>~</b>	<b>~</b>
Prism Tracking	<b>~</b>	$\checkmark$
Motorized Turn to Angle		~
Motorized Flip Scope		$\checkmark$
Motorized Turn 90 Left or Right		
Units		
International Feet		<b>~</b>
US Surveyor Feet		
Meters		<b>~</b>
Inches/Fractions		<b>~</b>
North Azimuths		<b>~</b>
South Azimuths		<b>~</b>
Bearings	<b>~</b>	<b>~</b>
Scale Factor		<b>~</b>
Curvature and Refraction	<b>~</b>	$\checkmark$
Survey – Occupy		
Specify Setup Point and a Direction	<b>~</b>	<b>~</b>
Specify Setup and Backsight Point		<b>~</b>
Store New Backsight Point	$\checkmark$	$\checkmark$

Shoot Angle and Distance		
Shoot Angle Only		
Set Zero Plate Reading		
Set Azimuth Plate Reading		
Review Backsight Shot Before Storing		
Survey - Check Backsight		
Display Deltas		
Optional Update Backsight Options		
Survey - Export		
Display Deltas		
Optional Store New Point		
Survey – Observe Benchmark		
Select Existing Point		
Define New Elevation		
Displays Deltas		
Update Current Occupy Point		
Survey - Add Invert		
Add Invert Elevations to Existing Point		
Survey - Traverse Report		
Closing Distance and Direction		
Traverse Precision		
Vertical Error		
Angle Adjust		
Vertical Adjust		
Compass Rule Adjust		
Survey - Store Point		
Point ID		
Nothing, Easting, Elevation		
Description	<b>~</b>	
Notes		
Voice Recordings		
Attributes		V
Survey - Delete Points		
Delete Last Ten Points		
Automatic History in Raw File		

Measure Modes		
Temporary Shot (No Store)	~	<b>~</b>
Sideshot (Advanced Mode)	~	
Sideshot (Fast Store)	<u> </u>	
Multiset (Set Collection)	GIGGO	
	<b>√</b>	
Multiset (Motorized)		
Resection Marie Office	<b>V</b>	<b>V</b>
Horizontal Angle Offset		
Vertical Angle Offset	<u> </u>	<b>V</b>
Distance Offset		<b>S</b>
Manual Distance	<u> </u>	<b>~</b>
Manual Entry		<b>V</b>
Vertical Plane Projection	<b>V</b>	<b>~</b>
Two-Line Intersection	<b>~</b>	<b>~</b>
Line – Angle Offset	<b>~</b>	<b>~</b>
Line – Distance Offset	<b>~</b>	$\checkmark$
Line – Perpendicular Point	<b>~</b>	
Point Scanning		
Calculation - Traverse/Intersect		
By Direction and Distance		
By Bearing-Bearing Intersection	$\checkmark$	
By Distance-Distance Intersection	$\overline{\mathbf{v}}$	
By Bearing-Distance Intersection	$\checkmark$	$\checkmark$
By Distance-Bearing Intersection	<b>~</b>	<b>~</b>
Recall Distance Between Points	<b>~</b>	
Recall Directions Between Points	<b>~</b>	<b>~</b>
Results Saved to COGO History	<b>~</b>	
Calculation Curve Calculator		
Tangent and PI	<b>✓</b>	<b>~</b>
Store PT and Center Point	<b>~</b>	
Select Points from MAP	<b>~</b>	<b>V</b>
Degree of Curve/Arc Support	<b>~</b>	<b>~</b>
Calculations – COGO Results		
Log Files of Traverse Calcs	<b>✓</b>	
Log Files of Inverse Calcs	<b>V</b>	
	-	

Calculation - Rotate/Translate/Scale		
Simultaneous Operations	<b>✓</b>	<b>~</b>
Rotation – Define Basepoint	~	<b>V</b>
Rotation – Define Rotation Angle	~	<b>V</b>
Rotation – Define Original and Destination Directions	~	<b>V</b>
Shift – Point to Point	~	<b>V</b>
Shift – Define N, E, Z Deltas	~	<b>V</b>
Shift – Direction and Distance	<b>V</b>	~
Scale – Define Basepoint	<b>~</b>	<b>V</b>
Shift – Define Scale Factor	<b>V</b>	<b>V</b>
Undo Functionality	<b>~</b>	
Automatic Audit Trail	<b>V</b>	
Calculation – Scientific Calculator		
RPN Functionality	~	~
Easy Unit Conversion	<b>~</b>	~
DMS Functions (DMS-, DMS+)	<b>~</b>	~
Trig Functions	<b>~</b>	~
Staking		
Points – Imported, Measured, or Calculated	<b>~</b>	<b>~</b>
Points – DXF	<b>~</b>	<b>✓</b>
Points – LandXML (CgPoints)	<b>~</b>	~
Store Stake Point or Stake Record Only	<b>~</b>	~
Circle Zero Staking Option	<b>~</b>	
Cut Sheet Reports	~	
Define Stake Point Offset	<b>~</b>	<b>~</b>
Stake Station and Offset Along Line/Arc	~	~
Stake Line	<b>~</b>	<b>~</b>
Stake Along DXF Entities	<b>~</b>	~
Stake Arc	<b>~</b>	<b>~</b>
Cut/Fill to Design Elevation	<b>~</b>	~
Turn Instrument to Stake 2D or 3D	<b>~</b>	<b>~</b>
Realtime Visual Staking	<b>~</b>	~
Servo Motor Support	<b>~</b>	~
Remote Stake (Robotic)	<b>~</b>	<b>~</b>
Staking List	<b>~</b>	<b>~</b>

Stake Alignment  Slope Stake  Roads (Alignment)  Manual Input - Centerline, Profiles, and Templates  LandXML import - Centerline, Cross Sections, Profiles, Surfaces  Centerline - Create/Edit Tangents  Centerline - Create/Edit Tangents  Centerline - Create/Edit Curves  Centerline - Create/Edit Cource  Centerline - Create/Edit CSC (Curve-Spiral-Curve)  Centerline - Create/Edit from Existing Figure  Profile - Create/Edit from Existing Figure  Profile - Create/Edit PVI  Profile - Create/Edit PVI  Profile - Create/Edit Parabolic Curve (Legual Tangent)  Profile - Create/Edit Parabolic Curve (Unequal Tangent)  Profile - Create/Edit Parabolic Curve (Unequal Tangent)  Template - Create/Edit  Stakeout - Station Check Routine  Template - Create/Edit  Stakeout - Station and Offset  Stakeout - Station and Offset  Stakeout - Station and Offset  Stakeout - LandXML Cross Sections and Alignments  Stakeout - Centerline and Loaded Surface File  Stakeout - Centerline and Loaded Surface File  Store Alignment Stake Deltas Only  Cut Sheet Reports  Native LandXML Format  Advanced Graphics - Real-Time Template Staking  Data Management  Spreadsheet Editor - View, Edit, Delete, Transform  Raw File Editor - View, Edit, Delete, Transform  Raw File Editor - View, Edit, Delete, Transform  Raw File Editor - View, Edit, Delete, Stakeout  LandXML CgPoints - Load/Unload  Surfaces, Volumes, Areas	Stake Surface (LandXML, QSB)		
Roads (Alignment)  Manual Input - Centerline, Profiles, and Templates  LandXML import - Centerline, Cross Sections, Profiles, Surfaces  Centerline - Create/Edit Tangents  Centerline - Create/Edit Curves  Centerline - Create/Edit Curves  Centerline - Create/Edit CSC (Curve-Spiral-Curve)  Centerline - Create/Edit Spiral  Centerline - Create/Edit Spiral  Centerline - Create/Edit from Existing Figure  Profile - Create/Edit PVI  Profile - Create/Edit Parabolic Curve (Equal Tangent)  Profile - Create/Edit Parabolic Curve (Unequal Tangent)  Profile - Create/Edit Parabolic Curve (Unequal Tangent)  Profile - Station Check Routine  Template - Create/Edit  Stakeout - Template Staking  Stakeout - Station and Offset  Stakeout - Station and Offset  Stakeout - Station and Offset  Stakeout - LandXML Cross Sections and Alignments  Stakeout - Centerline and Loaded Surface File  Store Alignment Stake Deltas Only  Cut Sheet Reports  Native LandXML Format  Advanced Graphics - Real-Time Template Staking  Data Management  Spreadsheet Editor - View, Edit, Delete, Transform  Raw File Editor - View, Edit, Add Comments, Reprocess  DXF Data - View Layers, Freeze, Thaw, Unload  LandXML Porcels - Store points, Lines, Stakeout  LandXML CgPoints - Load/Unload  Surfaces - Load/Unload	Stake Alignment	V	
Manual Input - Centerline, Profiles, and Templates  LandXML import - Centerline, Cross Sections, Profiles, Surfaces  Centerline - Create/Edit Tangents  Centerline - Create/Edit Curves  Centerline - Create/Edit Curves  Centerline - Create/Edit Spiral  Centerline - Create/Edit Spiral  Centerline - Create/Edit from Existing Figure  Profile - Create/Edit PVI  Profile - Create/Edit PVI  Profile - Create/Edit Parabolic Curve (Equal Tangent)  Profile - Create/Edit Parabolic Curve (Unequal Tangent)  Template - Create/Edit Parabolic Curve (Unequal Tangent)  Template - Create/Edit  Stakeout - Template Staking  Stakeout - Station and Offset  Stakeout - Station and Offset  Stakeout - LandXML Cross Sections and Alignments  Stakeout - Centerline and Loaded Surface File  Store Alignment Stake Points  Store Alignment Stake Deltas Only  Cut Sheet Reports  Native LandXML Format  Advanced Graphics - Real-Time Template Staking  Data Management  Spreadsheet Editor - View, Edit, Delete, Transform  Raw File Editor - View, Edit, Add Comments, Reprocess  DXF Data - View Layers, Freeze, Thaw, Unload  LandXML Porcels - Store points, Lines, Stakeout  LandXML CgPoints - Load/Unload  Surfaces - Load/Unload	Slope Stake		<b>~</b>
LandXML import - Centerline, Cross Sections, Profiles, Surfaces  Centerline - Create/Edit Tangents  Centerline - Create/Edit Curves  Centerline - Create/Edit Curves  Centerline - Create/Edit Curves  Centerline - Create/Edit CSC (Curve-Spiral-Curve)  Centerline - Create/Edit Spiral  Centerline - Create/Edit Spiral  Centerline - Create/Edit From Existing Figure  Profile - Create/Edit PVI  Profile - Create/Edit Parabolic Curve (Equal Tangent)  Profile - Create/Edit Parabolic Curve (Unequal Tangent)  Profile - Station Check Routine  Template - Create/Edit  Stakeout - Template Staking  Stakeout - Station and Offset  Stakeout - Station and Offset  Stakeout - Station and Offset  Stakeout - LandXML Cross Sections and Alignments  Stakeout - LandXML Cross Sections and Alignments  Store Alignment Stake Points  Store Alignment Stake Deltas Only  Cut Sheet Reports  Native LandXML Format  Advanced Graphics - Real-Time Template Staking  Data Management  Spreadsheet Editor - View, Edit, Delete, Transform  Raw File Editor - View, Edit, Delete, Transform  Raw File Editor - View, Edit, Load/Unload  LandXML Parcels - Store points, Lines, Stakeout  LandXML CgPoints - Load/Unload	Roads (Alignment)		
Centerline - Create/Edit Tangents  Centerline - Create/Edit Curves  Centerline - Create/Edit Curves  Centerline - Create/Edit CSC (Curve-Spiral-Curve)  Centerline - Create/Edit Spiral  Centerline - Create/Edit Spiral  Centerline - Create/Edit Spiral  Centerline - Create/Edit from Existing Figure  Profile - Create/Edit PVI  Profile - Create/Edit Parabolic Curve (Equal Tangent)  Profile - Create/Edit Parabolic Curve (Unequal Tangent)  Profile - Station Check Routine  Template - Create/Edit  Stakeout - Template Staking  Stakeout - Slope Staking  Stakeout - Station and Offset  Stakeout - Station and Offset  Stakeout - LandXML Cross Sections and Alignments  Stakeout - LandXML Cross Sections and Alignments  Stakeout - Centerline and Loaded Surface File  Store Alignment Stake Points  Store Alignment Stake Deltas Only  Cut Sheet Reports  Native LandXML Format  Advanced Graphics - Real-Time Template Staking  Data Management  Spreadsheet Editor - View, Edit, Delete, Transform  Raw File Editor - View, Edit, Add Comments, Reprocess  DXF Data - View Layers, Freeze, Thaw, Unload  LandXML Parcels - Store points, Lines, Stakeout  LandXML CgPoints - Load/Unload	Manual Input – Centerline, Profiles, and Templates	V	
Centerline - Create/Edit Curves  Centerline - Create/Edit CSC (Curve-Spiral-Curve)  Centerline - Create/Edit Spiral  Centerline - Create/Edit Spiral  Centerline - Create/Edit from Existing Figure  Profile - Create/Edit PVI  Profile - Create/Edit Parabolic Curve (Equal Tangent)  Profile - Create/Edit Parabolic Curve (Unequal Tangent)  Profile - Create/Edit Parabolic Curve (Unequal Tangent)  Profile - Station Check Routine  Template - Create/Edit  Stakeout - Template Staking  Stakeout - Stope Staking  Stakeout - Station and Offset  Stakeout - Station and Offset  Stakeout - Random Station and Offset  Stakeout - LandXML Cross Sections and Alignments  Stakeout - Centerline and Loaded Surface File  Store Alignment Stake Points  Store Alignment Stake Deltas Only  Cut Sheet Reports  Native LandXML Format  Advanced Graphics - Real-Time Template Staking  Data Management  Spreadsheet Editor - View, Edit, Delete, Transform  Raw File Editor - View, Edit, Add Comments, Reprocess  DXF Data - View Layers, Freeze, Thaw, Unload  LandXML Parcels - Store points, Lines, Stakeout  LandXML CgPoints - Load/Unload Datasets  Surfaces - Load/Unload	LandXML import – Centerline, Cross Sections, Profiles, Surfaces	V	
Centerline – Create/Edit CSC (Curve-Spiral-Curve)  Centerline – Create/Edit Spiral  Centerline – Create/Edit From Existing Figure  Profile – Create/Edit PVI  Profile – Create/Edit Parabolic Curve (Equal Tangent)  Profile – Create/Edit Parabolic Curve (Unequal Tangent)  Profile – Create/Edit Parabolic Curve (Unequal Tangent)  Profile – Station Check Routine  Template – Create/Edit  Stakeout – Template Staking  Stakeout – Slope Staking  Stakeout – Station and Offset  Stakeout – Station and Offset  Stakeout – LandXML Cross Sections and Alignments  Stakeout – Centerline and Loaded Surface File  Store Alignment Stake Deltas Only  Cut Sheet Reports  Native LandXML Format  Advanced Graphics – Real-Time Template Staking  Data Management  Spreadsheet Editor – View, Edit, Delete, Transform  Raw File Editor – View, Edit, Add Comments, Reprocess  DXF Data – View Layers, Freeze, Thaw, Unload  LandXML Parcels – Store points, Lines, Stakeout  LandXML CgPoints – Load/Unload  View Curfaces – Load/Unload	Centerline – Create/Edit Tangents	V	
Centerline – Create/Edit Spiral  Centerline – Create/Edit from Existing Figure  Profile – Create/Edit PVI  Profile – Create/Edit PVI  Profile – Create/Edit Parabolic Curve (Equal Tangent)  Profile – Station Check Routine  Template – Station Check Routine  Template – Create/Edit  Stakeout – Template Staking  Stakeout – Slope Staking  Stakeout – Station and Offset  Stakeout – Station and Offset  Stakeout – Centerline and Loaded Surface File  Store Alignment Stake Points  Store Alignment Stake Deltas Only  Cut Shet Reports  Native LandXML Format  Advanced Graphics – Real-Time Template Staking  Data Management  Spreadsheet Editor – View, Edit, Delete, Transform  Raw File Editor – View, Edit, Add Comments, Reprocess  DXF Data – View Layers, Freeze, Thaw, Unload  LandXML Parcels – Store points, Lines, Stakeout  LandXML CgPoints – Load/Unload Datasets  Surfaces – Load/Unload	Centerline – Create/Edit Curves	V	
Centerline – Create/Edit from Existing Figure  Profile – Create/Edit PVI  Profile – Create/Edit Parabolic Curve (Equal Tangent)  Profile – Create/Edit Parabolic Curve (Unequal Tangent)  Profile – Station Check Routine  Template – Create/Edit  Stakeout – Template Staking  Stakeout – Slope Staking  Stakeout – Station and Offset  Stakeout – Station and Offset  Stakeout – Random Station and Offset  Stakeout – Centerline and Loaded Surface File  Store Alignment Stake Points  Store Alignment Stake Deltas Only  Cut Sheet Reports  Native LandXML Format  Advanced Graphics – Real-Time Template Staking  Data Management  Spreadsheet Editor – View, Edit, Delete, Transform  Raw File Editor – View, Edit, Add Comments, Reprocess  DXF Data – View Layers, Freeze, Thaw, Unload  LandXML Parcels – Store points, Lines, Stakeout  LandXML CgPoints – Load/Unload Datasets  Surfaces – Load/Unload	Centerline – Create/Edit CSC (Curve-Spiral-Curve)		
Profile - Create/Edit PVI Profile - Create/Edit Parabolic Curve (Equal Tangent) Profile - Create/Edit Parabolic Curve (Unequal Tangent) Profile - Station Check Routine Template - Create/Edit Stakeout - Template Staking Stakeout - Slope Staking Stakeout - Station and Offset Stakeout - Random Station and Offset Stakeout - Random Station and Offset Stakeout - LandXML Cross Sections and Alignments Stakeout - Centerline and Loaded Surface File Store Alignment Stake Points Store Alignment Stake Deltas Only Cut Sheet Reports Native LandXML Format Advanced Graphics - Real-Time Template Staking  Data Management Spreadsheet Editor - View, Edit, Add Comments, Reprocess DXF Data - View Layers, Freeze, Thaw, Unload LandXML Parcels - Store points, Lines, Stakeout LandXML CgPoints - Load/Unload Surfaces - Load/Unload	Centerline – Create/Edit Spiral	V	
Profile – Create/Edit Parabolic Curve (Equal Tangent)  Profile – Create/Edit Parabolic Curve (Unequal Tangent)  Profile – Station Check Routine  Template – Create/Edit Stakeout – Template Staking Stakeout – Slope Staking Stakeout – Station and Offset  Stakeout – Station and Offset Stakeout – Random Station and Offset Stakeout – LandXML Cross Sections and Alignments Stakeout – Centerline and Loaded Surface File Store Alignment Stake Points Store Alignment Stake Deltas Only Cut Sheet Reports Native LandXML Format Advanced Graphics – Real-Time Template Staking  Data Management Spreadsheet Editor – View, Edit, Delete, Transform Raw File Editor – View, Edit, Add Comments, Reprocess DXF Data – View Layers, Freeze, Thaw, Unload LandXML Parcels – Store points, Lines, Stakeout LandXML CgPoints – Load/Unload Datasets Surfaces – Load/Unload	Centerline – Create/Edit from Existing Figure		
Profile – Create/Edit Parabolic Curve (Unequal Tangent)  Profile – Station Check Routine  Template – Create/Edit  Stakeout – Template Staking  Stakeout – Stope Staking  Stakeout – Station and Offset  Stakeout – Random Station and Offset  Stakeout – LandXML Cross Sections and Alignments  Stakeout – Centerline and Loaded Surface File  Store Alignment Stake Points  Store Alignment Stake Deltas Only  Cut Sheet Reports  Native LandXML Format  Advanced Graphics – Real-Time Template Staking  Data Management  Spreadsheet Editor – View, Edit, Delete, Transform  Raw File Editor – View, Edit, Add Comments, Reprocess  DXF Data – View Layers, Freeze, Thaw, Unload  LandXML Parcels – Store points, Lines, Stakeout  LandXML CgPoints – Load/Unload  Surfaces – Load/Unload	Profile – Create/Edit PVI		
Profile – Station Check Routine  Template – Create/Edit  Stakeout – Template Staking  Stakeout – Slope Staking  Stakeout – Station and Offset  Stakeout – Station and Offset  Stakeout – Random Station and Offset  Stakeout – LandXML Cross Sections and Alignments  Stakeout – Centerline and Loaded Surface File  Store Alignment Stake Points  Store Alignment Stake Deltas Only  Cut Sheet Reports  Native LandXML Format  Advanced Graphics – Real-Time Template Staking  Data Management  Spreadsheet Editor – View, Edit, Delete, Transform  Raw File Editor – View, Edit, Add Comments, Reprocess  DXF Data – View Layers, Freeze, Thaw, Unload  LandXML Parcels – Store points, Lines, Stakeout  LandXML CgPoints – Load/Unload  William Stakeout  View Layers, Freeze, Thaw, Unload  LandXML CgPoints – Load/Unload	Profile – Create/Edit Parabolic Curve (Equal Tangent)		
Template – Create/Edit Stakeout – Template Staking Stakeout – Stope Staking Stakeout – Station and Offset Stakeout – Random Station and Offset Stakeout – LandXML Cross Sections and Alignments Stakeout – LandXML Cross Sections and Alignments Stakeout – Centerline and Loaded Surface File Store Alignment Stake Points Store Alignment Stake Deltas Only Cut Sheet Reports Native LandXML Format Advanced Graphics – Real-Time Template Staking  Data Management Spreadsheet Editor – View, Edit, Delete, Transform Raw File Editor – View, Edit, Add Comments, Reprocess DXF Data – View Layers, Freeze, Thaw, Unload LandXML Parcels – Store points, Lines, Stakeout LandXML CgPoints – Load/Unload	Profile - Create/Edit Parabolic Curve (Unequal Tangent)		
Stakeout – Template Staking  Stakeout – Slope Staking  Stakeout – Station and Offset  Stakeout – Random Station and Offset  Stakeout – LandXML Cross Sections and Alignments  Stakeout – Centerline and Loaded Surface File  Store Alignment Stake Points  Store Alignment Stake Deltas Only  Cut Sheet Reports  Native LandXML Format  Advanced Graphics – Real-Time Template Staking  Data Management  Spreadsheet Editor – View, Edit, Delete, Transform  Raw File Editor – View, Edit, Add Comments, Reprocess  DXF Data – View Layers, Freeze, Thaw, Unload  LandXML Parcels – Store points, Lines, Stakeout  LandXML CgPoints – Load/Unload Datasets  Surfaces – Load/Unload	Profile – Station Check Routine		
Stakeout – Slope Staking  Stakeout – Station and Offset  Stakeout – Random Station and Offset  Stakeout – LandXML Cross Sections and Alignments  Stakeout – Centerline and Loaded Surface File  Store Alignment Stake Points  Store Alignment Stake Deltas Only  Cut Sheet Reports  Native LandXML Format  Advanced Graphics – Real-Time Template Staking  Data Management  Spreadsheet Editor – View, Edit, Delete, Transform  Raw File Editor – View, Edit, Add Comments, Reprocess  DXF Data – View Layers, Freeze, Thaw, Unload  LandXML Parcels – Store points, Lines, Stakeout  LandXML CgPoints – Load/Unload Datasets  Surfaces – Load/Unload	Template - Create/Edit		
Stakeout – Station and Offset  Stakeout – Random Station and Offset  Stakeout – LandXML Cross Sections and Alignments  Stakeout – Centerline and Loaded Surface File  Store Alignment Stake Points  Store Alignment Stake Deltas Only  Cut Sheet Reports  Native LandXML Format  Advanced Graphics – Real-Time Template Staking  Data Management  Spreadsheet Editor – View, Edit, Delete, Transform  Raw File Editor – View, Edit, Add Comments, Reprocess  DXF Data – View Layers, Freeze, Thaw, Unload  LandXML Parcels – Store points, Lines, Stakeout  LandXML CgPoints – Load/Unload  Surfaces – Load/Unload	Stakeout – Template Staking		
Stakeout – Random Station and Offset  Stakeout – LandXML Cross Sections and Alignments  Stakeout – Centerline and Loaded Surface File  Store Alignment Stake Points  Store Alignment Stake Deltas Only  Cut Sheet Reports  Native LandXML Format  Advanced Graphics – Real-Time Template Staking  Data Management  Spreadsheet Editor – View, Edit, Delete, Transform  Raw File Editor – View, Edit, Add Comments, Reprocess  DXF Data – View Layers, Freeze, Thaw, Unload  LandXML Parcels – Store points, Lines, Stakeout  LandXML CgPoints – Load/Unload Datasets  Surfaces – Load/Unload	Stakeout – Slope Staking		
Stakeout – LandXML Cross Sections and Alignments  Stakeout – Centerline and Loaded Surface File  Store Alignment Stake Points  Store Alignment Stake Deltas Only  Cut Sheet Reports  Native LandXML Format  Advanced Graphics – Real-Time Template Staking  Data Management  Spreadsheet Editor – View, Edit, Delete, Transform  Raw File Editor – View, Edit, Add Comments, Reprocess  DXF Data – View Layers, Freeze, Thaw, Unload  LandXML Parcels – Store points, Lines, Stakeout  LandXML CgPoints – Load/Unload Datasets  Surfaces – Load/Unload	Stakeout – Station and Offset	V	
Stakeout – Centerline and Loaded Surface File  Store Alignment Stake Points  Store Alignment Stake Deltas Only  Cut Sheet Reports  Native LandXML Format  Advanced Graphics – Real-Time Template Staking  Data Management  Spreadsheet Editor – View, Edit, Delete, Transform  Raw File Editor – View, Edit, Add Comments, Reprocess  DXF Data – View Layers, Freeze, Thaw, Unload  LandXML Parcels – Store points, Lines, Stakeout  LandXML CgPoints – Load/Unload Datasets  Surfaces – Load/Unload	Stakeout – Random Station and Offset	V	
Store Alignment Stake Points  Store Alignment Stake Deltas Only  Cut Sheet Reports  Native LandXML Format  Advanced Graphics – Real-Time Template Staking  Data Management  Spreadsheet Editor – View, Edit, Delete, Transform  Raw File Editor – View, Edit, Add Comments, Reprocess  DXF Data – View Layers, Freeze, Thaw, Unload  LandXML Parcels – Store points, Lines, Stakeout  LandXML CgPoints – Load/Unload Datasets  Surfaces – Load/Unload	Stakeout – LandXML Cross Sections and Alignments		
Store Alignment Stake Deltas Only  Cut Sheet Reports  Native LandXML Format  Advanced Graphics – Real-Time Template Staking  Data Management  Spreadsheet Editor – View, Edit, Delete, Transform  Raw File Editor – View, Edit, Add Comments, Reprocess  DXF Data – View Layers, Freeze, Thaw, Unload  LandXML Parcels – Store points, Lines, Stakeout  LandXML CgPoints – Load/Unload Datasets  Surfaces – Load/Unload	Stakeout – Centerline and Loaded Surface File	V	
Cut Sheet Reports  Native LandXML Format  Advanced Graphics – Real-Time Template Staking  Data Management  Spreadsheet Editor – View, Edit, Delete, Transform  Raw File Editor – View, Edit, Add Comments, Reprocess  DXF Data – View Layers, Freeze, Thaw, Unload  LandXML Parcels – Store points, Lines, Stakeout  LandXML CgPoints – Load/Unload Datasets  Surfaces – Load/Unload	Store Alignment Stake Points		
Native LandXML Format  Advanced Graphics – Real-Time Template Staking  Data Management  Spreadsheet Editor – View, Edit, Delete, Transform  Raw File Editor – View, Edit, Add Comments, Reprocess  DXF Data – View Layers, Freeze, Thaw, Unload  LandXML Parcels – Store points, Lines, Stakeout  LandXML CgPoints – Load/Unload Datasets  Surfaces – Load/Unload	Store Alignment Stake Deltas Only	V	
Advanced Graphics – Real-Time Template Staking  Data Management  Spreadsheet Editor – View, Edit, Delete, Transform  Raw File Editor – View, Edit, Add Comments, Reprocess  DXF Data – View Layers, Freeze, Thaw, Unload  LandXML Parcels – Store points, Lines, Stakeout  LandXML CgPoints – Load/Unload Datasets  Surfaces – Load/Unload	Cut Sheet Reports		
Data Management  Spreadsheet Editor – View, Edit, Delete, Transform  Raw File Editor – View, Edit, Add Comments, Reprocess  DXF Data – View Layers, Freeze, Thaw, Unload  LandXML Parcels – Store points, Lines, Stakeout  LandXML CgPoints – Load/Unload Datasets  Surfaces – Load/Unload	Native LandXML Format		
Spreadsheet Editor – View, Edit, Delete, Transform  Raw File Editor – View, Edit, Add Comments, Reprocess  DXF Data – View Layers, Freeze, Thaw, Unload  LandXML Parcels – Store points, Lines, Stakeout  LandXML CgPoints – Load/Unload Datasets  Surfaces – Load/Unload	Advanced Graphics – Real-Time Template Staking		
Raw File Editor – View, Edit, Add Comments, Reprocess  DXF Data – View Layers, Freeze, Thaw, Unload  LandXML Parcels – Store points, Lines, Stakeout  LandXML CgPoints – Load/Unload Datasets  Surfaces – Load/Unload	Data Management		
DXF Data – View Layers, Freeze, Thaw, Unload  LandXML Parcels – Store points, Lines, Stakeout  LandXML CgPoints – Load/Unload Datasets  Surfaces – Load/Unload	Spreadsheet Editor – View, Edit, Delete, Transform		
LandXML Parcels – Store points, Lines, Stakeout  LandXML CgPoints – Load/Unload Datasets  Surfaces – Load/Unload  V	Raw File Editor - View, Edit, Add Comments, Reprocess		
LandXML CgPoints – Load/Unload Datasets  Surfaces – Load/Unload	DXF Data - View Layers, Freeze, Thaw, Unload		
Surfaces – Load/Unload	LandXML Parcels – Store points, Lines, Stakeout	V	
	LandXML CgPoints – Load/Unload Datasets		
Surfaces, Volumes, Areas	Surfaces – Load/Unload	V	
	Surfaces, Volumes, Areas		

Create a Real-Time DTM Surface Model As You Take Each Shot		
Create a DTM Surface from Imported		
Import LandXML DTM Surface and Stake to It		
Import a DTM Surface		
Stake to a DTM Surface Created Inside FieldGenius / SurvCE		
Display DTM Triangles		
Display Contours		
Display Shaded 3D Views of a Surface		
Compute Volumes Between Surfaces to a Datum		
Fixed Area Calculations		
Inverse Area Calculations		
Features		
Code-Free Linework – 3-Point Arcs	<b>~</b>	
Code-Free Linework – Lines	$\checkmark$	
Code-Free Linework – Spline Curves	<b>~</b>	
Manually Draw Lines or Curves Between Points	<b>~</b>	
Linework Manager	<b>~</b>	
Point Description Manager (AutoMAP)	$\checkmark$	
Add Map Markers Based on Point Description	<b>~</b>	<b>~</b>
Hide Points and Lines Based on Point Description	$\checkmark$	
dBase Coordinate File - Read it Using Excel, AutoCAD, LDD & ma	<b>~</b>	
Advanced LandXML Support	<b>~</b>	<b>~</b>
Vertical Plane Mapping (measure 2 pts. – obs. angle only for other)	<b>~</b>	<b>~</b>
Real-Time Drawing Generation	<b>~</b>	
One Tap for Line Information	<b>~</b>	<b>~</b>
One Tap for Point Information	<b>~</b>	<b>~</b>
One-Tap Measure, Store, and Draw Point	<b>~</b>	
One-Tap Point Display Options	<b>~</b>	
One-Tap Selection of Active Line Options	<b>~</b>	<b>~</b>
One-Tap Code-Free Selection of Linework Options	<b>V</b>	
One-Tap Selection of Manual Draw Line Options	<b>~</b>	
One-Tap Zoom Functions (In, Out, Extents, Re-center)	<b>V</b>	<b>~</b>
ASCII	<b>V</b>	<b>~</b>
Customizable Keyboard Shortcuts	<b>V</b>	<b>~</b>
Advanced 3D Viewing (3D Perspective)	<b>V</b>	

Windows Version for Tablet or Desktop Computers		
Local Transformation (Helmert)		
Horizontal Adjustment	<b>~</b>	<b>~</b>
Vertical Adjustment	<b>~</b>	<b>~</b>
Statistical Analysis with Residuals and RMS	<b>~</b>	$\checkmark$
Automatic Parameter Computations	~	
Manual Parameter Entry	<b>~</b>	
GPS Functionality – Status Reports		
Position Solution	~	
Number of Satellites Used	<b>~</b>	
PDOP/HDOP/VDOP	~	
Position Coordinates (Latitude/Longitude or Northing/Easting)	~	
Position Cursor on Drawing Area	~	
Hrms/Vrms	~	
GPS Functionality – Base Setup		
User-Defined Profiles for One-Time Setup		
Antenna True Vertical	~	<b>~</b>
Antenna Slant Measured	~	<b>~</b>
Station ID	~	<b>~</b>
Elevation Mask	~	<b>~</b>
GPS Functionality – Rover Setup		
User-Defined Profiles for One-Time Setup	<b>~</b>	
Antenna True Vertical	~	<b>~</b>
Antenna Slant Measured	~	
Position Solution Mask  1.Autonomous  2.WAAS  3.Differential Code 4.RTK Float	✓	<b>~</b>
5.RTK Fixed		
Elevation Mask		
PDOP Mask	<b>V</b>	
Minimum Satellites Mask		
Station ID Mask		<b>V</b>
Horizontal RMS Tolerance		
Vertical RMS Tolerance	<b>V</b>	<b>V</b>
Minimum Observations Tolerance		
Minimum Time Occupation Tolerance	$\checkmark$	V

Automatic Measurements Based On Distance or Time		
GPS Functionality – Communication Setup	992	666
Supported Radios 1.Pacific Crest 2.Satelline 3.Trimble 4.CDMA Modems	<b>✓</b>	<b>✓</b>
Supported Correction Formats  1.RTCM  2.CMR  3.CMR+  4.DBEN  5.Leica  6.Javad  7.WAAS  8.CDGPS  9.OmniStar  10.Veripoz	<b>₹</b>	<b>₹</b>
GPS Functionality – Datum Setup		
Coordinate System Editor for Custom Coordinate Systems	$\checkmark$	
United States 1.NAD83 2.NAD83 HARN 3.NAD27 4.State Plane Coordinate System 5.NAVD88 6.NGVD29  Canada 1.NAD83 (CSRS) 2.NAD27 3.UTM/3TM/MTM 4.CGVD28 (HTv2.0)  International Systems for Most Countries		
GPS Units		
<ol> <li>Meters</li> <li>International Feet</li> <li>US Survey Feet</li> </ol>		
GPS Functionality – Raw Data Storage		
TDS RW5 Format		
Latitude, Longitude and Ellipsoidal Height		
Antenna Height		
Baseline Vector		
Baseline Covariance Matrix		
Start Time		
End Time	<b>~</b>	

Number of Observations		
Position Solution Type	V	
Horizontal Precision	<b>~</b>	
Vertical Precision	<b>~</b>	
Number of Observed Satellites	<b>~</b>	
PDOP	<b>~</b>	
HDOP	<b>~</b>	
VDOP	V	
Satellite Plot (GPS, WAAS, Glonass)		