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## Features and Benefits

FieldGenius for Android v1.7.2.5002

30 October 2020

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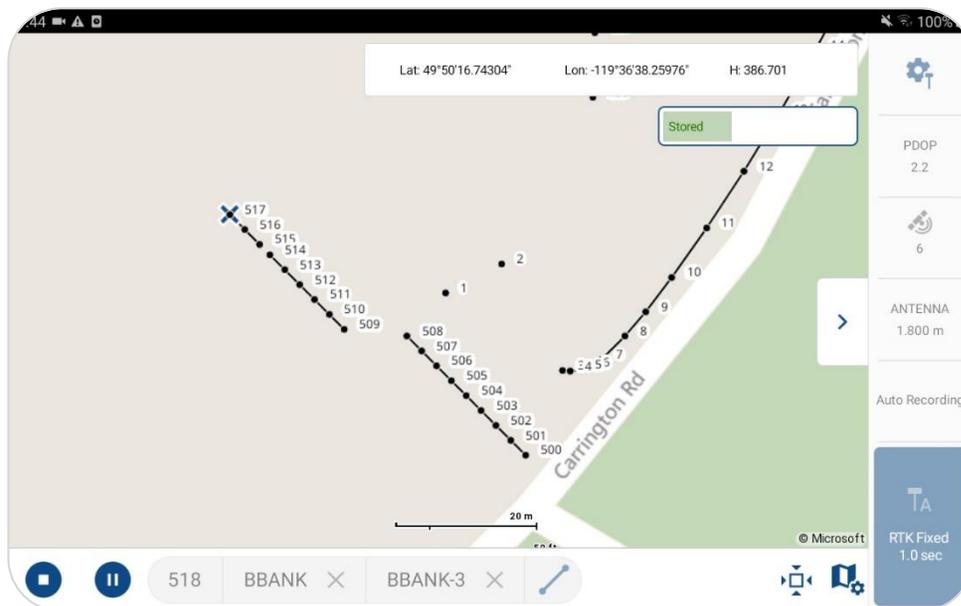
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# MicroSurvey FieldGenius for Android v1.7.2.5002

Release Date: October 30, 2020

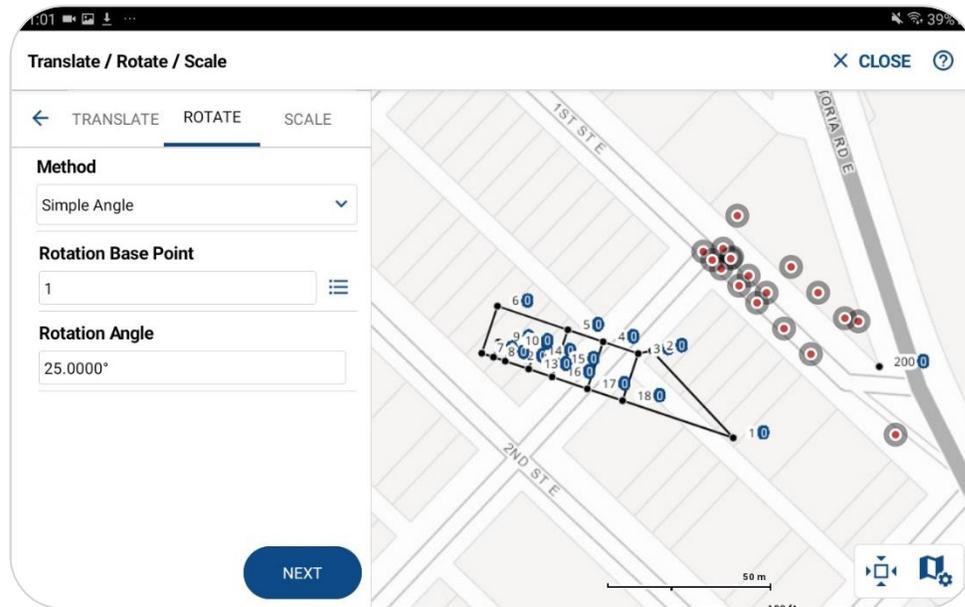
FieldGenius for Android v1.7 is a maintenance release that provides new features such as: Auto Record by time or distance, COGO Rotate/Translate/Scale functionality, photo's assigned to points, point annotation, quadrant bearing support and area calculations for closed figures. Workflow program improvements have been made for: Importing coordinate files, Bluetooth search and staking improvements. The FieldGenius for Android [Release Notes](#) detail all 1.7 new features and improvements. Visit [microsurvey.com/license](https://microsurvey.com/license) to download and receive the latest features.

## New: Auto-Record



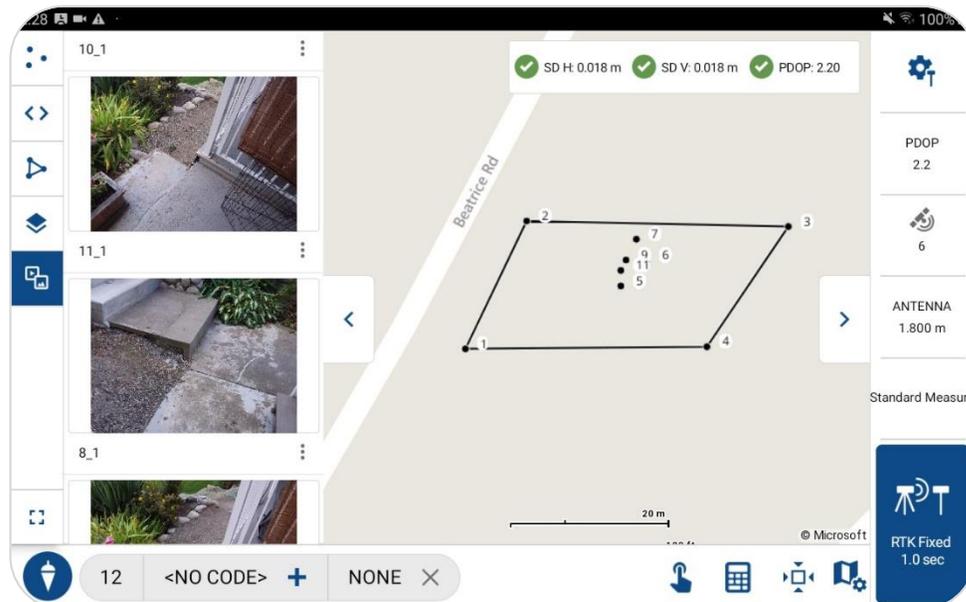
Feature	Benefit
Auto-Record	Users can now select Auto-Record as a measurement mode in the Instrument toolbar to save time in the field. With Auto-Record ON the user can select either the time or distance measurement option and specify the desired interval. When Auto-Record is running users do not have to stop and manually trigger the observation. The point saving progress for each point can be monitored on the map view screen with a new status bar. The save point review screens are deactivated in Auto-Record mode to allow for rapid data collection. However, users can still easily monitor the GNSS receiver status using the observation toolbar without leaving the map view screen.

## New: COGO - Rotate Translate Scale



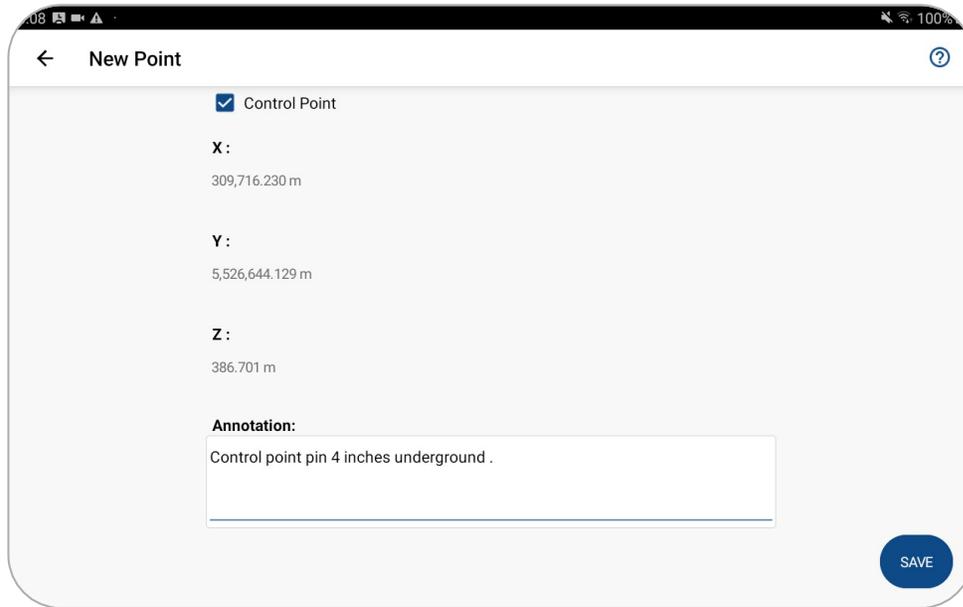
Feature	Benefit
Rotate Translate Scale	Rotate, Translate and Scale (RTS) functionality allows the user to select project points and lines to be moved and scaled to match project control points. This allows a user to import a project from CAD or another FieldGenius project and adjust the points as necessary. Design points can now be imported and moved to local control points easily. RTS parameters are input in the data panel and the selected points are adjusted in real time on the map. This allowing for immediate feedback on the inputted values. Seeing the points adjusted in real time speeds up alignment of points and reduces the possibility of rework. Users can adjust the points using one function at a time or conduct all the RTS adjustments at once depending on project requirements. When the RTS adjustment is applied the points and lines are moved to the new locations and the surveyor can quickly return to conducting fieldwork.

## New: Media Photo – Point and Project



Feature	Benefit
Media Photos	Document your work with photos using the android device camera. A new media tab on the New Point screen allows you to quickly take photos in the field. Taking or assigning photos is part of the store observation workflow and takes only seconds to do in the field. You can associate multiple photos with a point or select images in the device photo library. If you have previous project photos you want to associate with a point It can easily be done using the browse option. A new Media data panel allows you to easily see the images assigned to a point. With the edit options it is quick and easy to reassign images as a general project photo or assign them to a specific point. A new media number icon can now be toggled on or off from the map view panel, so number of photos associated with a point can easily be seen on the survey map view.
Share Project Photos	The project images are contained in the project file and are included with the FGA archive feature. This makes it quick for the office to access the project and see the project and point images for inclusion in reports.

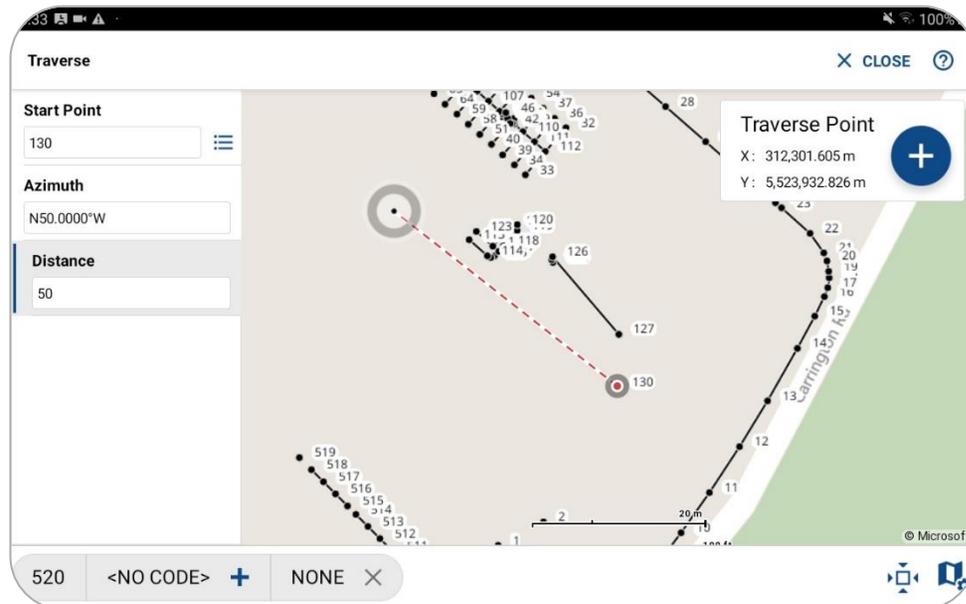
## New: Point Annotation



Control Point  
**X:**  
 309,716.230 m  
**Y:**  
 5,526,644.129 m  
**Z:**  
 386.701 m  
**Annotation:**  
 Control point pin 4 inches underground .  
 SAVE

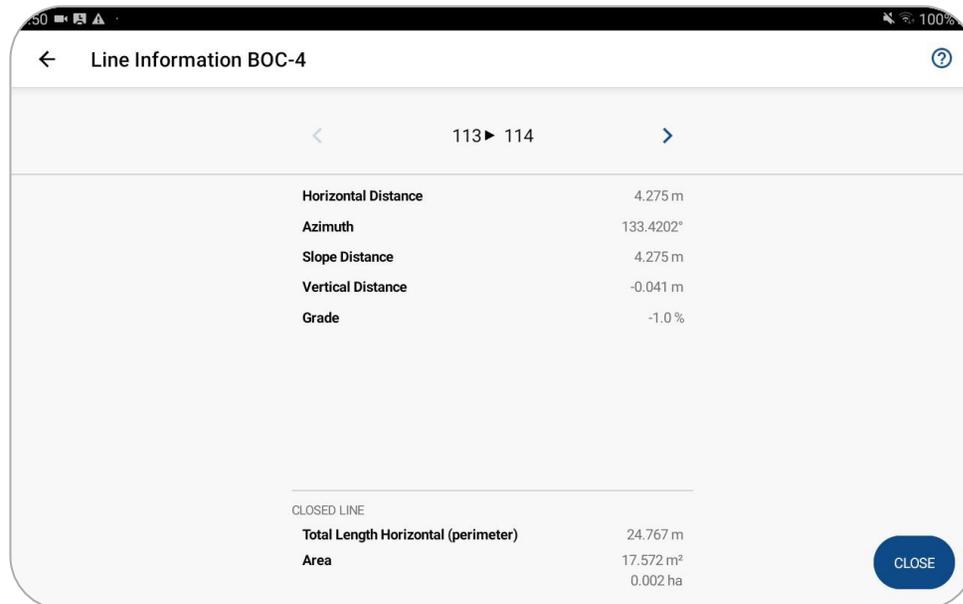
Feature	Benefit
Point Annotation	Add point notes to the new annotation field as part of the store point workflow. The annotation notes are stored with the point record. Quickly add notes without having to navigate to a different screen, just add a note and tap the SAVE button. The annotation field uses the Android device input options so depending on your tablet you can use a keyboard, set-up handwriting recognition or use the voice to text option to quickly add notes before moving on.
Staking Point Annotation	Speed up fieldwork by automatically include staking information for a point in the annotation field by turning on the "stake results as point annotation" option in Settings on the Staking setting page.
Share Point Annotations	Any notes made in the annotation field are stored in the project folder and are included in the project archive feature. The office can import an archive project and see the point annotations, making it easy to include the notes in reports.

## New: COGO – Quadrant Bearing Support



Feature	Benefit
Quadrant Bearing	If you work in quadrant bearing you can now turn on this option in the Settings Units page. No more angle conversions needed in the field. With the Quadrant bearing option checked the angle fields in the COGO functions will now be displayed in quadrant bearing reducing the possibility of conversion errors and rework.

## New: Area Calculation



Feature	Benefit
Area Calculation	FGA now provides an area calculation for closed figures. With two taps get the area of a figure, (1) tap the line to bring up the quick action popup and (2) tap the line information option. This will bring up the line information section that now automatically provides the area for a closed line. You can note the area and hit the back button to quickly return to the map view screen to continue work.

## New: GNSS Drivers

Feature	Benefit
Kolida K1Pro Kolida K20S Stonex S980 Stonex S990A Pentax G6J2 EOS Arrow Bad Elf Survey Bad Elf Pro/Pro+	FGA has added driver support for new devices that can now be found in the new Instrument Profile listings. MicroSurvey continues to add support for new GNSS devices so customers can use only one software package to support your inventory of GNSS receivers. This reduces staff training time and provides consistency in implementing best practices in the field. Field staff do not have to learn multiple field software programs. With MicroSurvey's graphical interface it makes it easier for staff to progress from learning the software to becoming an expert user.

Feature	Benefit
Various Updated GNSS Drivers	Updates have been made to a variety of GNSS receivers to improve radios configuration and connection issues and address reported bugs and connection issues. MicroSurvey works with OEM partners and customers to update drivers, support the newest GNSS firmware updates and address customer reported issues. This allows customers to use the greatest number of GNSS receivers with the FieldGenius for Android app.

### Enhanced: Bluetooth Search Dynamic Listing

Feature	Benefit
Bluetooth search	Revised the Bluetooth search process so it is dynamic and displays Bluetooth devices as they are found. This allows a user to see their GNSS device and select it as soon as it is found reducing the time required to configure a new device.

### Enhanced: Import Coordinate File Define File Format

Feature	Benefit
Import Coordinate files	Add the ability to define the header and column information as part of the coordinate file import process. This allows a user to take an import file and adjust the import process to handle the file layout without having to restructure the file into a set format. This speeds data import and allows a user to get to work in the field faster. It reduces the possibility of error by having someone reorder the import file into a set format with an external program.

### Enhanced: Map Tile Improvement

Feature	Benefit
Map Tiles	Improved map tile panning functionality for WMS and blank background map layers. Improved map tile zoom functionality.

### Enhanced: Staking Improvements

Feature	Benefit
Define by Points	Improved the line staking functionality by adding a define by points option. To speed up line staking you can now define a line in staking view by using points. Select 2 points and then stake to the line between the points or 3 points and stake to the arc defined by the points. No need to create the lines or arcs in the survey map view. This new functionality will speed up staking by reducing the time need to define stake lines and curves.
Point and Code Change	Added an enhancement to allow the user to tap the point number or code on the staking results screen to change the number or code before saving the staking result. Reduces time needed to edit a staking code if you want to change it from the default value.

## Enhanced: Various Improvements

Feature	Benefit
Workflow Enhancement	Adding an observation detail page allows the user to see all the details related to an observation in one place for quick review in the field.
UI Enhancements	Added various UI enhancements to improve map loading and display performance. Improved the screen display for various elements in dark mode option on the phone form factor display mode.