MicroSurvey

MicroSurvey FieldGenius 3.1
Release Notes

MicroSurvey FieldGenius 3.1 (v 3.1.10444)

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Introducing FieldGenius 3.1, now rebuilt for cross-platform compatibility on Android and Windows devices. This release includes support for robotic total stations from Leica and GeoMax, along with several new features, refinements, and bug fixes.

New Features

- **TS Robotic functionality for Leica and GeoMax instruments**
    - ATR, power search, joystick, rotate instrument
    - Real-time distance tracking with live map updates
    - Face 1/Face 2 visual indicators in the observation panel, with shortcuts to the robotic functions
    - Total station setups written to the observation list (Main Menu > Project Data > Observations)
    - Total station setups written to the observation list
    - Improved Error messages to allow quick selection compared to FG Legacy

- **Coordinates system catalog**
    - Create and manage a personalized subset of coordinate systems that are relevant to your projects

- **File Explorer**
    - Enhanced file management for better usability

Refinements

- **Code Template File Import** - Import code template files (ctf) directly from the Codes page

- **Expanded Inverse Options** - Added support for radial input and user-defined input

New/Updated Instrument Drivers

GNSS

- **Stonex S900A** – Fixed satellite page issues

Total Station

- **Leica TS13/TS16** – Added driver support

- **GeoMax Zoom 90/95** – Added driver support

Defects Fixed

- **Resection –** User can change the target height

- **Stake Station Offset** – Surface heights are applied during alignment staking, including in reports. Performance enhancements prevent crashes on some controllers.

- **GNSS Local Transformation -** Grid-to-ground scale is retained upon reopening a project

- **Import Georeferenced Image** – Import GeoRef image matches the project coordinate [feet, metric]

- **RTS –** Users can store solutions outside coordinate system limit

- **GNSS satellite page -** elevation mask is applied correctly

Known Issues

- **Unimplemented Features** - Angle Offset, Distance Offset, Recall Target Height, Multiset, Stake Station Offset, Stake Surface (planned for future releases)

- **Reflector-less distance tracking** - Continuous distance measurement does not work in reflector-less mode (only works with a prism)

- **Map point selection** - Occasional issues with map point selection during total station setup or COGO calculations

- **Raw file issues**
  - Setup is incorrectly written when storing BS direction and point simultaneously
  - Issues with raw file sequence when using the overwrite option

- **Translate/Rotate/Scale** Observations

  - When observed points are transformed, the Observation Detail page and GNSS report display the observed Cartesian coordinates, while the point list displays the transformed coordinates.
  - Points containing GIS features cannot be translated, rotated, or scaled

- **Emlid RS3:** GNSS Survey Report baseline distance value is 0

- **Leica GS16** unable to receive RTK corrections from NTRIP on Widows devices

- **HeXML Export** – missing baseline information and incorrect point role assignments

- **Leica GS16** - Issue with some specific source tables

- **Septentrio NR3** - Issue with receiving corrections

- **Spectra Precision 60** – Issue with configuring UHF radio

- **Temporary Antenna Height** – Issue with height computation when IMU tilt correction is enabled

- **Czech Republic S-JTSK(v1710)(Quadrant 1)** – Cogo and staking show incorrect values if a background map is not being used

- **3D View** - Is only available on Android. Windows users can only view in a 2D top-down view