MicroSurvey®

MicroSurvey FieldGenius 3.2

Release Notes

MicroSurvey FieldGenius 3.2 (v 3.2.10694)

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Introducing **FieldGenius 3.2**, a comprehensive and versatile **full survey solution** designed for both **Android** and **Windows** devices. This release enhances total station functionality, introduces numerous GNSS driver updates and new features, and delivers refinements and bug fixes for an improved user experience.

New Features

Total Stations Improvements

- Two new measure modes
    - Angle Offset
    - Distance Offset
- Four new stakeout modes
    - Stake Line Segment
    - Stake Line Defined by Points
    - TS Stake Station Offset (including alignment)
    - Stake Surface
- Target height is now recalled with target changes
- Continuous distance measurement available in reflector-less mode
    - for Leica and Geomax robotic instruments

GNSS Enhancements

- Improved stake alignment mode
    - the elevations are calculated using vertical profiles or surfaces, with an option to select
- GNSS reference profile - base position can be sent via Internet
- Reset RTK Filters to force recalculation of new solutions and resolve ambiguities
- IMU calibration for Hemisphere and Stonex receivers

New Functions

- Rotate, Translate, and Scale (RTS) functionality calculated from point pairs

- Horizontal point snapping in Manual Point mode
- New license type: Office License
  - For in-office project configuration. Cannot connect to any instruments.

Refinements

- **Surface Staking** – user can stake a negative surface
- **Coordinate System page** - User can Expand/Collapse all filtered coordinate systems
- **Coordinate file Import** - Added functionality to include a prefix/suffix before import
- **3D mode** - Point size has been reduced
- **Export Raw file** - Added support for exporting to STAR*NET with UTF8-BOM encoding for accurate conversion to .DAT in STAR*NET
- **GNSS Offset Measure Mode Mobile Landscape** - Added map zoom controls
- **Windows File Manager** - Enabled 'Select' functionality via long-press gesture to match Android
- **Improved performance** navigating to New Project screen and Geodetic Calculator page (Android)

New/Updated Instrument Drivers

GNSS

- GeoMax Zenith55 & Zenith60Pro
- Leica FLX 100 Plus (requires Zeno Connect application)
- TokNav P8, P8Pro, P8 global driver
- Geoobchod, GeoGen
- GeoMeasure Pinpoint

Total Station

- GeoMax Zoom10
- GeoMeasure GM-52

Defects Fixed

- Implemented fixes to prevent database corruption
- Corrected the base position transmission error that occurred during the day 2 setup when local transformation was applied
- Fixed missing date selector in Filter Points' Date Range (Windows)
- Leica/Geomax total station drivers: Added 'low battery' warning
- Fixed crash related to the calculation algorithm for TS Setup map drawing line
- Fixed crash when exporting LandXML files with Total Station Observations
- ComNav N3: Fixed the missing APN
- Fixed issue where upgrading from 3.1 to 3.2 or 3.0 to 3.2 will not delete the instrument profiles (Windows only)
- Fixed issue where Geomax Zoom35 Pro couldn't select the Mountpoint on Windows
- Fixed issue on Tripltek 9 Pro tablet in landscape mode where UI elements were cut off in staking robotic total station dialogs
- Implemented fixes to prevent of database corruption
- Fixed issue where DXF import deleted project codes
- Fixed issue where Target Height was not applied in Check Measurement mode
- Fixed issue with incorrect logging of timestamp data in Check Measurement mode
- Stonex S980+: Fixed issue with inability to observe with Reference after the first setup on Stonex
- Observation panel: Resolved flickering issue in the observation panel [Windows only]
- DWG/DXF export: Incorrect warning message during DWG/DXF export was removed
- Raw File - Fixed issues with raw file sequence when using the overwrite option
- Emlid RS3: Fixed an issue with the GNSS Survey Report where the baseline distance value was incorrectly displayed as 0
- Resolved an issue in the Czech Republic S-JTSK (v1710) (Quadrant 1) where COGO and staking displayed incorrect values when a background map was not used.

Known Issues

- **Raw file issue** with Star*NET import: Raw file export written differently than FieldGenius Legacy in one specific case when storing Totals station Backsight direction and point simultaneously (Workaround: Observe Angle only then take side shot separately)
- **Rotate/Translate/Scale**

- 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

- **CHC drivers** available only on the Android platform
- **Auto-recording** - delay in storing points when collected in 1sec paste
- **Import DXF/DWG** – various issues while importing CAD drawings
- **Leica GS16** - unable to receive RTK corrections from NTRIP on Windows 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
- **3D View** - Is only available on Android. Windows users can only view in a 2D top-down view
- On some Android devices, FieldGenius does not automatically launch after installation. However, it is installed; the Application must be started manually
- **Czech S-JTSK Issue**: Coordinate conversion error when adding from external reference between Quadrant 1 and Quadrant 3, and vice versa.