

# FieldGenius 2012 –6.0.8.5 Release Notes

December 9, 2013

## Release Notes

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If you are currently licensed to run any version of FieldGenius 2012 (V6.0.0. or higher), then this upgrade is free of charge and will not require a new license key. For those upgrading from older versions please consult your dealer/distributor or MicroSurvey representative for details on purchasing your upgrade.

**Important Note:** This is a special update to 6.0.8.2, and addresses a wrong “**Expansion Port Not Detected**” error message that would occur when connecting a Getac device and a total station. 6.0.8.2 has been replaced with 6.0.8.5. What’s new in 6.0.8.2 will also apply to 6.0.8.5.

## What’s New in FieldGenius 2012 Version 6.0.8.5?

- **CHC GNSS Driver:** We increased the **position update rate** so you now have a selectable choice between 1Hz and **2Hz**.
- **Pentax total station driver:**
  - We made the **Windows taskbar** remain **closed** during start up.
  - The **laser pointer now shuts off** when in prism measure mode.
  - We added “**Continuous**” **EDM measure mode**.
- **Leica GS14 Driver:** Added support for **Satel** radios.
- **Added Support for Rev2 versions** of the **Leica GS14** receiver.
- **Leica GNSS Drivers:** added **xRTK** support.
- **Stonex total station driver:** Added **Continuous EDM measure mode**.
- **FOIF total station driver:** Added **Continuous EDM measure mode**.
- **NavCom:** We’ve added the **absolute GNSS antenna calibration** values to the **SF-3040** driver. You will now see 2 settings available: SF-3040 Absolute and SF-3040 Relative.
- We’ve added **more progress reporting** when **communicating** with some of the **slower total stations**. You will now see better progress reporting when we are currently communicating with the instrument or waiting for a reply.
- We have also **added more detail to certain communication error messages**. In the past you may have seen the “**measurement error**” message. Instead you may now see messages alerting you that the instrument has not responded, and you should verify the instrument time out settings.
- **MEP notice:** If you attempt to use one of our MEP (mechanical, electrical, or plumbing) routines without the correct license, you will now be alerted with the correct information dialog that a **license is required**. In the past the button was enabled but didn’t work.

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- Added a **GPS ASCII export format** for **Brazil**.
- **LandXML surface generation has been greatly optimized.** Surface generation is much faster now.
- Added a check to our **LandXML importer**. We now **verify** that **the units** of the imported file match the units of the current project. You are alerted if there is a mismatch.
- We changed the **Roading Settings**. In the past you had only a “**Calculate Directions**” check box. This has been broken up and now there are **2 settings: Force Tangential and Dynamic Horizontal Alignment**.
  - **Force Tangential** will automatically enforce the direction of alignment geometry elements so they remain tangential to previous geometry elements. This rule can be useful to ensure the alignment geometry elements maintain a common tangent direction between adjacent elements.
  - **Dynamic Horizontal Alignment** will apply changes to the direction of alignment geometry elements to subsequent geometry elements. To illustrate: modify the direction of a line geometry element by 10° clockwise. With this feature is enabled, all geometry elements following the modified line will also be rotated by 10° clockwise. With this feature is disabled, only the single line element will be rotated by 10°.

## New Instrument Drivers

- 2 New **FOIF** total station drivers: **RTS360** and **RTS 010**.
- 2 New **Stonex** total stations drivers: **R2W** and **R2Plus**

## What's fixed in FieldGenius 2012 Version 6.0.8.5?

- We have **improved the way we handle points** that have **undefined elevations**. In the past if you did a check point or backsight check and used points with undefined elevations, we would display a wrong looking elevation bust value. We now display N/A (not available or applicable) in the **Elevation** fields.
- **Fixed a crash in the Road Editor**. Using the end point function would cause the program to crash.
- **Pentax GNSS**: Fixed a bug at the reference receiver where if you attempted to do 2 back to back average position locations, you would always see an **LSQ error**. The only way to get out of this was to restart the receiver. You will no longer see these error messages.
- **Pentax Total Station**: Fixed an issue where **measurements were being permitted** despite that the instrument being **out of level tolerance**.

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- **Pentax Total Station:** Fixed an issue where in the past when the instrument was out of level you would see a Measurement Error message. You'll now see an "**Instrument Out of Level**" error message.
- Fixed a crash in the **Curve Calculator**. Pressing the **close button** would cause a crash.
- **RTCM 2.3** is now back and working with our **Leica GNSS Drivers**.
- **Added 7 more lighting levels** to the **FOIF total station driver reticle** lighting adjustment feature. In the past we were only displaying the lowest of the 3 settings and they appeared to not work. There are now 10 usable reticle settings.
- Fixed an issue with **area calculations** where the final area calculation could be inconsistent when using **curved segments**.
- We **added default coordinate values of 0.000 to the Store Point dialog**. After pressing the **Add** button, the 3 coordinate fields will automatically default to 0.000. We hope this will **help eliminate** the use of points with **undefined elevation values**.
- **NavCom:** The GNSS static **raw data's file name** wasn't being correctly written to the **MicroSurvey raw file**.
- **NavCom:** Previous versions didn't permit access to the GNSS receiver onboard the Getac PS-236. You can now access the internal GNSS receiver.
- Fixed a bug in our **Custom Datum** coordinate systems. You previously would see a "**The Ellipsoid Dictionary open failed...**" error message.
- Fixed a **crash** that occurred on **Windows CE** devices when **importing** certain **XML files**.
- **Altus: Fixed a bug at the reference receiver** where if you attempted to do 2 back to back average position locations, you would always see an **LSQ error**. The only way to get out of this was to restart the receiver. You will no longer see these error messages.
- Fixed a bug where if you were **attempting to do a check backsight using a reflectorless** setting, you would receive a **prism search failed message**. There are now new information dialogs to help you work through this issue.
- The **Sensor Information** dialog had some **cut off information** so a horizontal scroll bar was added.
- Fixed an issue where our **Level Bubble** dialog was **distorted while in the Spanish version**.
- Added **more information** to the **Measurement Error** dialog to warn the user that maybe their instrument **timeout** values may be overriding the **Averaging** amount.
- **Leica MS50 driver:** The minimum/maximum **scan distance** values were **wrongfully being converted to metres** when in a Feet project. They now remain as feet.