

MicroSurvey Layout 2013 –1.0.8.5 Release Notes

December 9, 2013

Release Notes

If you are currently licensed to run any version of Layout 2013 (V1.0.0. or higher) 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 1.0.8.2, and addresses a wrong “**Expansion Port Not Detected**” error message that would occur when connecting a Getac device and a total station. 1.0.8.2 has been replaced with 1.0.8.5. What’s new in 1.0.8.2 will also apply to 1.0.8.5.

What’s New in Layout 2013 Version 1.0.8.5?

- **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 **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.
- Added a **GPS ASCII export format** for **Brazil**.
- **LandXML surface generation has been greatly optimized**. Surface generation is much faster now.

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- 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 Layout 2013 Version 1.0.8.5?

- We divided the **Auto-Locate Pipe on Wall** dialog into two separate dialogs. This should make using the **routine much easier** to understand.
- We improved the **AutoLocator** by changing the radio buttons to **toggle buttons**.
- 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**.
- **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**.

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- **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.