

Layout 2.4.15.2

Release Notes

2015-11-05

New Features and Changes

- **Power Search Improvements**
 - One click process to initiate power search to either directions
 - Optimized search directions for both data collector and total station onboard versions
 - A reverse configuration can be found in the Search Setting screen
- **Redesigned GNSS Offset Routine**
 - GNSS measurements and direction vectors can now be measured inside the offset routine.
 - Offset values can be applied onto multiple GNSS measurements.
- **GNSS Trilateration Routine** – GNSS measurements for 2 static points can be measured inside the trilateration routine by double clicking the point fields.
- **Layout Productivity Report** – A new staking cutsheet has been added to report the number of points being laid out per day.
- **Alignment Staking** – users can now put any offset values on a template and the elevation/grade will be automatically calculated.
- **Performance Enhancement** – Further memory optimizations have been done to graphical engine in order to improve the performance on Windows Mobile based devices.
- **Improvements to Onboard Version** – Various aspects of the application has been improved to provide a more polished experience when running onboard of a total station
- **Compensator Control** – Total station compensator switch has been added to the leveling screen.
- **World File** – Both metric and imperial units are supported for the world file of georeferenced images.
- **Map View** – Middle Mouse Button (MMB) can now be used for panning the screen on tablet/pc version.
- **Instrument Selection** – Instrument Selection button has been moved to the Main Menu for easy access and now displays the connection status. About button has been moved into the Settings menu.
- DXF loading messages have been rephrased to show the importation has been completed successfully.
- Added an option to choose calculate/apply elevation and grid factor for scale when using Local Transformation to setup a reference position
- Target shortcuts can now be used in Multiset, Occupy Point, Check Backsight, and Resection routines
- A progress bar has been added after completing the Occupy Point routine.
- Optimized point selection, the application will try to pick up points before figures.
- “GNSS Store Time” selection in the ASCII export is now affected by the GPS/UTC time option.
- Navigation keys are now works in the main menu.

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Hardware Specific Updates

- **ComNav**
T300 – Added support for using the internal GSM modem
- **DT-Research**
DT391GS (Hemisphere) – Added support for Hemisphere P103/P303 variant of DT391GS GNSS tablet
- **FOIF**
A30 – Fixed an issue where the tilt/compass sensor calibration process can prematurely complete
A30 – Removed beeping sound when messages from the receiver is getting delayed
- **Hemisphere**
S320 – Improved update rate for reference information
- **Hi-Target**
V60 – Added support for V60 GNSS receiver
- **Handheld**
Nautiz X8 – Memory improvements have been done to alleviate display issues with map view
- **Horizon**
Kronos 500 – Added support for Kronos 500 GNSS receiver
- **Geo-FENNEL**
FGS1 – Added support for using the internal GSM modem
- **GENEQ**
SXPad – Added support for SXPad GIS Data Collector
SXPro – Added support for SXPro GIS Data Collector
SXBlue II+ – Added support for SXBlue II+ GPS receiver
SXBlue III – Added support for SXBlue III GNSS receiver
- **GeoMax**
Zoom 90 – Added support for ZOOM 90 robotic total station, including an onboard version
Zenith 35 – Added support for Zenith 35 GNSS receiver, including Electronic Bubble feature
Zenith 25 Pro – Turning on Post-Process Tagging option will no longer cause RINEX 3 logging to stop
Changing EDM mode with Observation Toolbar lowered will no longer give an error
- **Juniper**
Allegro MX – Opening directories on this device will no longer display an error message
- **KOLIDA**
K5 PLUS – Added support for K5 PLUS GNSS receiver

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- **KQ GEO**
M8 – Added support for RTCM 3.2 correction type
- **Laser Technology**
TruePulse 200X – Added support for TruePulse 200X laser range finder
MapStar TruAngle – Added support for MapStar TruAngle as a total station
- **Leica**
CS20 – Captivate auto-launch has been disabled
Zeno 5 – Added support for Zeno 5 GIS data collector
CS15 – Addressed a performance issue caused by 5.70 firmware while using RTCM3 correction type
TCRP1205 – IR Tracking option will no longer cause distance measurement to stop
Error message from total stations is now more specific
Changing EDM mode with Observation Toolbar lowered will no longer gives an error
- **NavCom**
SF-3040 – Added the ability to disable Network ID
- **PENTAX**
W-1500 – Default EDM time out settings has been changed from 60s to 30s
- **Ruide**
NOVA R6 – Added support for NOVA R6 GNSS receivers
- **SANDING**
T66 – Added support for T66 GNSS receivers
- **Septentrio**
Altus APS3 & NR2 drivers have been regrouped into Septentrio category
- **Sokkia**
SRX – The instrument will no longer get disconnected if prism is blocked
- **South**
S86-2013 – Raw data logging has been added
GALAXY G1 – Improved Electronic Bubble update rate
- **Stonex**
S10 - Added support for S10 GNSS receivers
- **Texcel**
TX10 – Added support for TX10 GNSS receivers
TX08 – Added support for TX08 GNSS receivers

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Coordinate Systems and Geoids

- **Various Geoids and Grid Shift files have been added, check Help Desk at MicroSurvey.com for details.**
- Changes have been made to address issues with South African coordinate system
 - New Coordinate Order X, Y, Z (South) has been added. This option needs to be used along with South Map Orientation setting.
- Fixed coordinate file import/export to properly handle coordinate system orders.

Defects Fixed

- Addressed an issue where additional characters causes the application not able to save profiles
- Fixed local transformation with regards to the application of scale factors
- Fixed a crash caused by adding new figure and selecting it from Active Figure List
- Fixed an issue that the next nearest point to layout using GNSS receiver can be occasionally incorrect
- Fixed an issue where active line is not being selected in the figure list.
- Inserting LS Record to adjust rod height will no longer cause codes and descriptions to disappear
- Fixed an issue where BT search result will occasionally lose focus and appear below the previous screen
- Parcels (XML) option can once again be opened
- Reconnect to GNSS demo after an application restart should now work
- Addressed an issue with RTCM Transformation's compatibility with Ukraine network
- GNSS Profiles are now properly stored after creation if the driver selection step is not performed
- Reconnection function should now select the correct GNSS profile under all circumstances
- ASCII Import – empty Point ID fields should no longer cause import fields shifted by one
- Further improvements have been done to ensure dropdown list works properly
- Fixed an special case where a Geo-referenced Tif file would cause a crash
- Fixed an issue where the Registration key is not displayed after relaunching the application
- Importing a project that exceeds demo license point limit will no longer prompt for every single point
- Fixed an issue where Mount Point and Data Rate fields are not displayed in the ASCII export
- GNSS standard deviation tolerance setting should now take fractional feet and inches
- Fixed a crash that happens when cancelling out of the layout view under specific scenarios
- Fixed a crash that is caused by Observation toolbar threading
- Leica custom targets 1, 2, 3 should now only show up with Leica 1100 driver selected
- Basic Measure screen has been disabled on instruments that does not provide real time updates
- Fixed local transformation with regards to the application of scale factors.
- Adjusted the imported coordinate of georeferenced images by a pixel
- Standard deviation should now properly show up if the point is deleted an re-measured
- Unicode surface names will no longer cause issue with surfacing engine
- Fixed an issue with CST export that causes compatibility problem with ELLIPSE NEO
- Fixed an issue with Zoom-to-Extend function with DXF blocks