

Products TS30, TM30, TPS1200, GPS1200, RX1250

From System 1200 Product Management

Date 26th June, 2009

DVD ROM Leica SmartWorx DVD (Art. No. 755806)

Version SmartWorx v7.53



Download <http://downloads.leica-geosystems.com/downloads/index.htm>

These Release Notes contain important information about the new SmartWorx v7.53 software that can be loaded onto all models of TS30, TM30, TPS1200, GPS1200 and RX1250 instruments.

This firmware is protected and can only be loaded onto instruments with valid firmware (software) Maintenance date.

Software	Version	Maintenance Date
SmartWorx	7.53	15 December 2008

If the Maintenance End date of the used instrument is on/after the 15 December 2008, then this firmware can be loaded.

If the Maintenance End date is no longer valid, then please contact your local Leica Representative to learn about Customer Care Packages (CCPs) that include software maintenance so that you can benefit from the latest software improvements.



To check Maintenance End date please start your sensor and access the **STATUS/System Information** panel. On the **Firmware** page the Maintenance End date, is displayed. The new Firmware can be loaded if the date shown is the 15th December 2008 or later.

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Please do take your time to read these Release Notes!

These Release Notes contain information about the new functionality within the firmware, new loadable application programs and improvements to existing loadable application programs.

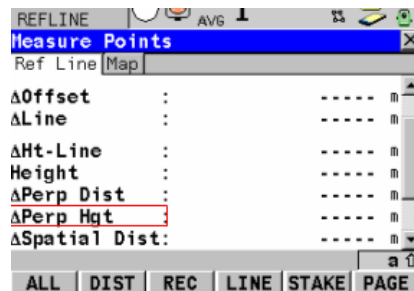
For information about how to obtain and load the firmware and loadable applications please refer to "System1200 SmartWorx upload instructions.doc" on the DVD.

For a summary of all the latest individual firmware components please refer to "System1200 SmartWorx v7.53 summary of latest firmware components.doc" on the DVD.

General SmartWorx Improvements and improvements of existing loadable application programs

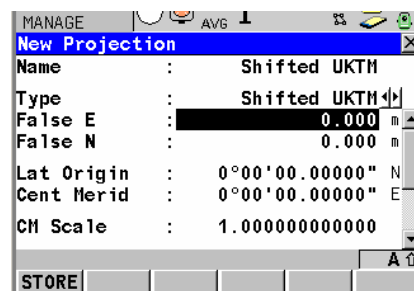
New output value in Application 'Reference Line'

The Reference Line Application on TS30, TM30, TPS1200, GPS1200, RX1250 contains the new output value 'Delta Perpendicular Height'. This value reflects the perpendicular height of a point to the line and is also supported by LGO format manager.



Introduction of a new projection type

The new projection type 'shifted UKTM' is added to support local site variations of specific coordinate systems.



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General Firmware Improvements and Bug Fixes for TPS instruments

TS30/TM30 Smart-Station antennas

On TS30/TM30 instruments three new default antennas ATX1230, ATX1230 GG and ATX1230+ GNSS are available for SmartStation setups. The new default antenna definitions provide the required vertical offset needed for SmartStation setups with this instrument type.

Antennas	
Name	Creator
TS30 ATX1230 GG SSt	Default
TS30 ATX1230 SSt	Default
TS30 ATX1230+ GNSS SSt	Default

Setup orientation calculation

In a use case specific application performing repeated Set Azimuth Setups it has been noted that the determination of more than three Set Azimuth Setups with 0.000 to the corresponding previous setup point could lead in rare cases to an incorrect calculation of the current setup orientation. The calculation for this special setup has been fixed for V7.53.

ATK Application

When starting with a negative station it has been noted that cross sections were not converted properly using the ATK application version 7.00. The application version 7.01 within firmware release V7.53 ensures the required conversion handling.

General Firmware Improvements and Bug Fixes for GNSS instruments

Change in Reference Coordinates issue

Using Network RTK it has been noted in rare cases that changes to the Reference Coordinate in the RTK Stream can increase the time to compute a fixed position. This is solved now with SmartWorx 7.53

DOP Computation

On rare occasions the DOP calculation did not use the full GNSS information available. This resulted in a slight difference to the calculated DOP values. In 7.53 this is now handled correctly.

Using Radio Repeater

Receiving RTK data simultaneously from the base and as well from the repeater station, caused problems on the rover to obtain a fixed position. This problem was observed in versions 7.xx and is now solved with SmartWorx 7.53.

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Antenna Height calculation

Defining a “user” antenna with antenna offsets, the height correction may not be applied correctly. Problem is solved with SmartWorx 7.53.

General Firmware Improvements (GRX1200 Only)

Antenna height setting allows negative values

It is now possible to enter negative values for the antenna height in the web interface of the GRX receiver.

FTP push fix

Fixed a bug where the FTP push for 24h files was not resumed after it had failed once.

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