Release Notes

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From: TLS Hardware Product Management

Leica RTC300/500/700 Scanner - Firmware v1.3.5



These release notes contain important information about the new Leica RTC300/500/700 firmware v1.3.5.

The new firmware can be obtained from your local Leica Geosystems Selling Unit or can be downloaded from the myWorld Customer Portal: myworld-portal.leica-geosystems.com

What’s New

Improvements

1. Increased Range Accuracy

Improvements to EDM signal processing increase the accuracy of range measurements. With firmware v1.3.5, a range accuracy specification of 1.0 mm + 10 ppm is achieved for all Leica RTC laser scanners.

The updated range accuracy and corresponding 3D accuracy specifications are reflected in the latest product documentation. These updated specifications also apply to scanners delivered before the release of firmware v1.3.5, provided that the scanner is updated to firmware v1.3.5 or later.

2. Improved Measurement Capability on Non-Leica Tripods

With previous firmware versions, measurements on less stable, non-Leica tripods could occasionally fail, resulting in a “Scan failed” notification on the scanner display. Improvements to the scanner motor control increase measurement robustness on less stable tripod setups, allowing scanning and imaging to be completed reliably on non-Leica tripods.

Bug Fixes

1. Measurement Start Reliability

Resolved an issue where a measurement could occasionally fail if the Start button was pressed twice in quick succession.

This firmware release includes various system optimisations to improve overall stability, reliability, and user experience.

Firmware Installation

- The new firmware v1.3.5 can be installed on any Leica RTC300, RTC500, or RTC700 laser scanner, independent of any previous firmware version.
- Compatibility with Leica Cyclone REGISTER 360 PLUS:
  - Leica REGISTER 360 PLUS v2026.1.1. or higher is required.
- Compatibility with Leica Cyclone FIELD 360:
  - Leica Cyclone FIELD 360 v7.1.1 or higher is required.

For optimal performance and compatibility, we recommend to always run the latest versions of the field and office software.