

AT930/960 System Software Release Notes

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Version 2.3.4 HF2

AT930/960 v2.3.4 HF2 is the 24th system software package for the Leica Absolute Laser Tracker AT930/960. This hotfix is a mandatory update for all AT960 systems currently installed and operating at customer locations.

Please note that this package is only compatible with the AT930/960 laser tracker. The Tracker Pilot (v4.3.4) coming with this version is compatible with AT930/960 but cannot be used to connect to other Absolute Tracker types.

For a connection to these devices the following Tracker Pilot versions should be used:

- v3.4.x for AT40x,
- v3.8.x for ATS600,
- v4.1.x for AT500,
- v4.3.x for AT930/960,
- V4.5.x for ATS800.

Please note that all Tracker Pilot versions can be installed concurrently on a computer.

More details can be found in the system documentation on the product USB memory stick.

Improvements and Bug Fixing

- Introduction of a 6D camera self-check function to extend the service life of the 6D camera initiating a maintenance process when needed. The routine is triggered during the AT960 laser tracker startup or initialization sequence and is automatically terminated when the AT960 sensor locks onto a target.

Please refer to Software Installation for instructions how to update the system to the new system software.

Leica Geosystems AG, July 2026

Version 2.3.4 HF

AT930/960 v2.3.4 is the 23rd system software package for the Leica Absolute Laser Tracker AT930/960. This version will only be available on the USB stick provided with any new tracker shipped from the factory. It's not required to update existing systems that are already in customers' possession.

Please note that this package is only compatible with the AT930/960. The Tracker Pilot (v4.3.4) coming with this version is compatible with AT930/960 but cannot be used to connect to other Absolute Tracker types.

For a connection to these devices the following Tracker Pilot versions should be used:

- v1.4 for AT901,
- v3.4.x for AT40x,
- v3.8.x for ATS600,
- v4.1.x for AT500,
- v4.3.x for AT930/960,
- V4.4.x for ATS800.

Please note that all Tracker Pilot versions can be installed concurrently on a computer.

More details can be found in the system documentation on the product USB memory stick.

Tracker Pilot

- To align with the latest European security regulations for radio equipment (*RED 2014/53/EU*), the unencrypted WLAN option is no longer available on systems delivered after September 10th, 2025.

Important Bug Fixes

- N/A

Please refer to Software Installation for instructions how to update the system to the new system software.

Leica Geosystems AG, September 2025

Version 2.3.3 HF

AT930/960 v2.3.3 is the 22nd system software package for the Leica Absolute Laser Tracker AT930/960.

Please note that this package is only compatible with the AT930/960. The Tracker Pilot (v4.3.3) coming with this version is compatible with AT930/960 but cannot be used to connect to other Absolute Tracker types.

For a connection to these devices the following Tracker Pilot versions should be used:

- v1.4 for AT901,
- v3.4.x for AT40x,
- v3.8.x for ATS600,
- v4.1.x for AT500,
- v4.3.x for AT930/960.

Please note that all Tracker Pilot versions can be installed concurrently on a computer.

More details can be found in the system documentation on the product USB memory stick.

Tracker Pilot

- Resolved Tracker Pilot incompatibility issues with latest Windows 24H2 Update (KB5046740).
- Updated digital signature for Tracker Pilot and its installation package.

Important Bug Fixes

- Restored access to the Sensor Check for 'Intermediate' user.
- Fixed issue with the saving process of non-default passwords across all user levels.
- Improved performance of the 'GoAndMeasure' command due to a rarely occurring issue.

Current Limitations & Known Issues of version 2.3.3

- See under section "Current Limitations & Known Issues of version 2.3.0"

Please refer to Software Installation for instructions how to update the system to the new system software.

Leica Geosystems AG, February 07, 2025

Version 2.3.2 HF

AT930/960 v2.3.2 is the 21th system software package for the Leica Absolute Laser Tracker AT930/960.

Please note that this package is only compatible with the AT930/960. The Tracker Pilot (v4.3.2) coming with this version is compatible with AT930/960 but cannot be used to connect to other Absolute Tracker types.

For a connection to these devices the following Tracker Pilot versions should be used:

- v1.4 for AT901,
- v3.4.x for AT40x,
- v3.8.x for ATS600,
- v4.1.x for AT500,
- v4.3.x for AT930/960.

Please note that all Tracker Pilot versions can be installed concurrently on a computer.

More details can be found in the system documentation on the product USB memory stick.

Important Bug Fixes

In former release version 2.3.1, the following bugs have been identified and are now fixed:

- Fixed an issue with Laser Oven Spikes causing unexpected changes in laser status and tracker initialization.

Current Limitations & Known Issues of version 2.3.2

- See under section “Current Limitations & Known Issues of version 2.3.0

Please refer to Software Installation for instructions how to update the system to the new system software.

Leica Geosystems AG, June 28, 2024

Version 2.3.1 HF

AT930/960 v2.3.1 is the 20th system software package for the Leica Absolute Laser Tracker AT930/960.

Please note that this package is only compatible with the AT930/960. The Tracker Pilot (v4.3.1) coming with this version is compatible with AT930/960 but cannot be used to connect to other Absolute Tracker types.

For a connection to these devices the following Tracker Pilot versions should be used:

- v1.4 for AT901,
- v3.4.x for AT40x,
- v3.8.x for ATS600,
- v4.1.x for AT500,
- v4.3.x for AT930/960.

Please note that all Tracker Pilot versions can be installed concurrently on a computer.

More details can be found in the system documentation on the product USB memory stick.

Important Bug Fixes

In former release version 2.3.0, the following bugs have been identified and are now fixed:

- Fixed issue of Probes LED group logic check.
- Stability improvements of Probes file export and import functionality.

Current Limitations & Known Issues of version 2.3.1

- See under section “Current Limitations & Known Issues of version 2.3.0”

Please refer to Software Installation for instructions how to update the system to the new system software.

Leica Geosystems AG, October 10, 2023

Version 2.3.0

AT930/960 v2.3.0 is the 19th system software package for the Leica Absolute Laser Tracker AT930/960.

Please note that this package is only compatible with the AT930/960. The Tracker Pilot (v4.3.0) coming with this version is compatible with AT930/960 but cannot be used to connect to other Absolute Tracker types.

For a connection to these devices the following Tracker Pilot versions should be used:

- v1.4 for AT901,
- v3.4.x for AT40x,
- v3.8.x for ATS600,
- v4.1.x for AT500,
- v4.3.x for AT930/960.

Please note that all Tracker Pilot versions can be installed concurrently on a computer.

More details can be found in the system documentation on the product USB memory stick.

New Features

- Seamless system setup by automatically importing compensations, alignments, and tips directly from any probe (also now including AP21) instead of importing from file
- Support of new Absolute Scanner AS1-XL
- Support of new Absolute Tracker Controller V3.0 including new DHCP Server LAN Profile
- Support of Precision Time Protocol (PTP)
- Support of HxGN NEXUS | Metrology Asset Manager (migrated from HxGN SFx | Asset Management)
- Shutdown and Reboot of tracker via Tracker Pilot for situations where controller is inaccessible.

Improvements

- Replaced Leica Logo on the boot and update screen by Hexagon Logo
- Improved timestamp resolution for Custom Trigger when using the internal tracker clock.

Important Bug Fixes

In former release version 2.2.4, the following bugs have been introduced and are now fixed:

- Wireless Leica T-Probes remained unrecognized after a beam break when previously the tip has been re-assembled and therefore, newly compensated.
- In some cases, tips remained unrecognized when being freshly connected to a Leica T-Probe or after booting the tracker.

Current Limitations & Known Issues of version 2.3.0

- In some cases, the controller display of an Absolute Tracker Controller V3.0 might show a wrong network connection icon on the LAN connection page on the controller display. The displayed icons have no influence on the tracker's behaviour.
- It can happen that the self-initialization fails after booting tracker or after creating a support file. It can be solved by manually initialize the tracker via Tracker Pilot or 3rd parties.
- When manually importing probe files, in some cases re-assembled tips are not imported, a second import of the same file imports the missing tips.

Please refer to Software Installation for instructions how to update the system to the new system software.

Leica Geosystems AG, August 24, 2023

Version 2.2.4

AT930/960 v2.2.4 is the 18th system software package for the Leica Absolute Laser Tracker AT930/960.

Please note that this package is only compatible with the AT930/960. The Tracker Pilot (v4.2.0) coming with this version is compatible with AT930/960 but cannot be used to connect to other Absolute Tracker types.

For a connection to these devices the following Tracker Pilot versions should be used:

- v1.4 for AT901,
- v3.4.x for AT40x,
- v3.8.x for ATS600,
- v4.1 for AT500,
- v4.2.x for AT930/960.

Please note that all Tracker Pilot versions can be installed concurrently on a computer.

More details can be found in the system documentation on the product USB memory stick.

New Features

General

- Seamless setup of new probes by importing compensations and tips directly from the probe instead of import from file
- Support of Scanning Automation Extension between AP21 and AS1

Tracker Pilot

- Possibility to write face compensation and tips to Probe (AP21 excluded)
- Wizard to measure a virtual tip for a cylindrical tool
- Wizard to define a virtual tip relative to another virtual tip
- Wizard to switch between AP21 Standard setup and AP21 Extension configuration
- Possibility to Change the Timeout for T-Probe

RFTP-EC

- Integration of Orient to Gravity command into RFTP-EC

Improvements and bug fixes

General

- Software Download Area on ATC900 controller forces browsers to not use pages from browser memory with outdated content
- Measurements on T-Probe without attached Tip allowed as with any other Probe: No virtual tip needed anymore
- Several stability improvements

Tracker Pilot

- Fixed issue with ADM Offset wizard for Custom reflectors
- Information about LED Outlier Detection visualised in Support Info Page
- General bug fixes

Current Limitations & Known Issues of version 2.2.4

N/A

Please refer to Software Installation for instructions how to update the system to the new system software.

Leica Geosystems AG, March 15, 2023

Version 2.2.1

AT930/960 v2.2.1 is the 17th firm- and software package for the Leica Absolute Laser Tracker AT930/960 family.

Please note that this package is only compatible with AT930/960 Tracker Types.

The Tracker Pilot (v4.0.1) coming with this version is compatible with AT930/960 but cannot be used to connect to AT40x, ATS600 or AT901. For a connection to these devices the respective Tracker Pilot v2.x for AT40x, 3.8.x for ATS600 resp. v1.4 for AT901 must be used.

Please note that all Tracker Pilot versions can be installed concurrently on a computer.

This package is a hotfix addressing one single connection issue. No other changes have been made compared to package 2.2.0. As the issue appeared only in special cases a general update recommendation is not given. Instead, the package should be used in these cases only.

Improvements and bug fixes

- Fix for an issue with Tracker Pilot when trying to connect to a system in western time zones when laser wake-up times were defined on the system

Version 2.2.0

AT930/960 v2.2.0 is the 16th firm- and software package for the Leica Absolute Laser Tracker AT930/960 family.

Please note that this package is only compatible with AT930/960 Tracker Types.

The Tracker Pilot (v4.0.0) coming with this version is compatible with AT930/960 but cannot be used to connect to AT40x, ATS600 or AT901. For a connection to these devices the respective Tracker Pilot v2.x for AT40x, 3.8.x for ATS600 resp. v1.4 for AT901 must be used.

Please note that all Tracker Pilot versions can be installed concurrently on a computer.

More details can be found in the system documentation on the product USB memory stick.

New features

- Compatibility to Windows 11
- Full Support for WRTL Devices
- Full Support for AS1.1 Scanner
- Possibility to adapt Probe LED acquisition to unstable environments
- New Universal Updater included

Improvements and bug fixes

- Improvements and bug fixes:
- Robustized Tip Compensation to prevent occasional storage errors when finishing the compensation
- Fixed issue when trying to import probes files in different time zones
- Improved Refraction Index updates on small temperature changes
- Improvements to prevent anti-virus software blocking Tracker Pilot startup

HxGN SFX | Asset Management

- Various improvements for SFX asset management

Version 2.1.0

AT930/960 v2.0.0 is the 15th firm- and software package for the Leica Absolute Laser Tracker AT930/960 family.

Please note that this package is only compatible with AT930/960 Tracker Types.

The Tracker Pilot (v3.9.0) coming with this version is compatible with AT930/960 but cannot be used to connect to AT40x, ATS600 or AT901. For a connection to these devices the respective Tracker Pilot v2.x for AT40x, 3.8.x for ATS600 resp. v1.4 for AT901 must be used.

Please note that all Tracker Pilot versions can be installed concurrently on a computer.

More details can be found in the system documentation on the product USB memory stick.

New features

- Support of new Absolute Scanner AS1 via RDS 6.0 (including AP21 and CB21)
- Extended T-Probe turn-off time when not locked to 10 minutes for improved usability

Improvements and bug fixes

General

- Fixes for Lockon-Issues in rare cases where LEDs were very close to each other
- Fix for Probe and Reflector stream sync issue leading to Lockon failures (needed a system reboot for recovery)
- Fix for rare cases of lockon issues happening on T-Scan 5 top face only under special situations
- Improved battery error handling and capacity calculation when using multiple batteries with different capacities: In former releases the overall battery capacity was given as an average of all connected batteries. Now the biggest capacity of all connected batteries is given as this is from a customer perspective the effective capacity for the system
- Several stability improvements

Tracker Pilot

- Improvements to prevent anti-virus software blocking system software updates
- Refined "tolerance scheme" for probe check to prevent false recommendations to do an Axes Check whereas the Axes Check is in fact well within tolerance
- Simplified Probes Visualization on Tracker Pilot target page
- Configurable probe sound levels within Tracker Pilot
- Cleaner probes export containing only stylus definitions the probe really used
- Adapted user guide tolerances in Probe Face Comp to allow mounting the Compensation Frame on AT9x0 Stand for improved stability
- Improved detection of insufficient prism surface scan in Probe Face Comp

HxGN SFx | Asset Management

- Integration of the new Absolute Scanner AS1

Leica Geosystems AG, June 4, 2021

Version 2.0.0.433 HF

Improvements and bug fixes

- A production batch of Leica Absolute Laser Tracker systems AT930/960 within serial number range #749956 - #750052 could contain internal firmware components with a potential compatibility issue with system software version 2.0.0.430.
- Upgrading to v 2.0.0.430 can bring the laser tracker into an unknown state. It is strongly recommended to upgrade all systems exclusively with the new patched update package v2.0.0.433 and to ignore v 2.0.0.430.
- In some situations, it was not possible to import with TrackerPilot a T-MAC .probes or .emsys parameter file, this is fixed.

Leica Geosystems AG, August 21, 2020

Version 2.0.0

AT930/960 v2.0.0 is the 13th firm- and software package for the Leica Absolute Laser Tracker AT930/960 family.

Please note that this package is only compatible with AT930/960 Tracker Types.

The Tracker Pilot (v3.7.0) coming with this version is compatible with AT930/960 but cannot be used to connect to AT40x, ATS600 or AT901. For a connection to these devices the respective Tracker Pilot v2.x for AT40x, 3.6.x for ATS600 resp. v1.4 for AT901 must be used.

Please note that all Tracker Pilot versions can be installed concurrent on a computer.

More details can be found in the system documentation on the product USB memory stick.

New features

- Redesigned ATC Controller MMI and Tracker Pilot Software Design
- System software 2.0 for AT930/960 enables HxGN SFX | Asset Management, and allows the Tracker to communicate to the SFX ASM cloud-based platform via Laser Tracker controller or via PC gateway

Improvements and bug fixes

General

- Improved system software update procedure, which after sending the update packet runs autonomously on the tracker controller
- Improved overview camera dialog offering new video controls, better image quality and zoom steps
- Improved level monitoring which is now managed on the Laser Tracker system itself
- Laser can be switched on/off, or a sleep schedule activated directly from the Tracker Controller display
- Further improvements on sporadic Lock on issues due to quick target changes on 6DoF Devices
- Mini vario camera control loop parameters have been further optimized

Tracker Pilot

- New "all user" setup option is provided
- New motor settings for Advanced users, like performance settings to allow to select a parameter set (Standard, Reduced and Custom) or drive limits to select the corresponding Laser Tracker Aperture (3D only or 6D+3D)
- New Orient to Gravity (OTG) readouts on TrackerPilot Inclination readouts page
- WPA passphrase for "connect to client" option is now hidden

HxGN SFX | Asset Management

- SFX Connectivity Settings, allows Advanced users to toggle data transfer to SFX Asset Management
- Links to SFX Asset Management platform and access to HxGN SFX Connector Download to onboard assets are provided
- Please consult [SFX Quick Setup Guide](#) for instructions how to onboard a Laser Tracker Asset

Leica Geosystems AG, June 10, 2020

Software Installation

Installation of Tracker Pilot Software on Application PC/Notebook

When installing Tracker Pilot for the first time, navigate to Directory "System Software", run "*SetupAT960 TrackerPilot.exe*" and follow the instructions on the screen.

Update AT90 firmware

A software update package combines updates for the sensor firmware and the Tracker Pilot in a single file with extension *.Update. The update package is available on the website [AT960 Download](#) and via Hexagon Universal Updater.

- 1) Start Tracker Pilot.
- 2) Login as Advanced User.
- 3) Navigate to "Updates" in the Tracker Pilot menu.
 - a. With *Update*, the user can manually select the update file which has been separately downloaded.
 - b. *Install* uses the update file which has previously been downloaded from Hexagon Universal Updater.
- 4) Accept the EULA to be able to start the process by selecting the *Install* button. Note the estimated duration of the update varies depending on the modules to be updated.

Hexagon Universal Updater (HUU)

The software Hexagon Universal Updater notifies the user when a new software package update is available and optionally downloads it to the application computer. It can be installed along with the Tracker Pilot installation or separately using its own installer which is available on the official download area.

For details refer to the Tracker Pilot Reference Manual.

Hexagon Licensing Manager (HLM)

The software Hexagon License Manager allows the user to activate licenses which enable additional features. It can be installed along with the Tracker Pilot installation or separately using its own installer which is available on the official download area.

For details refer to the Tracker Pilot Reference Manual.

Documentation / Help

A Reference Manual for the Tracker Pilot Software is available as PDF document on the product USB memory stick. It is also embedded into the Tracker Pilot, navigate to Help, Leica Tracker Pilot Reference Manual to access the document.

Leica Geosystems AG, April 16, 2026