



ATS600 System Software Release Notes

Version 1.1.4

ATS600 v1.1.4 is the 7th system software package for the Leica Absolute Laser Tracker ATS600.

Please note that this package is only compatible with the ATS600. The Tracker Pilot (v3.8.3) coming with this version is compatible with ATS600 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,
- 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

- Support of new Absolute Tracker Controller V3.0 including new DHCP Server LAN Profile.
- Support of HxGN NEXUS | Metrology Asset Manager (migrated from HxGN SFx | Asset Management).
- Integration of Hexagon Universal Updater in Tracker Pilot Installer.

Improvements

- Replaced Leica Logo on the boot and update screen by Hexagon Logo.
- Rebranding of Tracker Pilot with Hexagon Logo.

Important Bug Fixes

- Reduced FoV to avoid an unwanted lock-on to a target after executing positioning command with PowerLock & TargetSearch switched off.
- Improved behavior of sensor when clicking between two nearby targets in the Overview Camera.

Please refer to [Software Installation](#) for instructions how to update the system to the new system software.

Leica Geosystems AG, January 2024





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Version 1.1.3

ATS600 v1.1.3 is the 6th system software package for the Leica Absolute Laser Tracker ATS600. Please note that this package is only compatible with the ATS600. The Tracker Pilot (v3.8.2) coming with this version is compatible with ATS600 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,
- v4.0.x for AT930/960,
- V4.1 for AT500.

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

N/A

Improvements and Bug Fixes

General

- System software adaptations to support new hardware components *
- Fixed issue with tilt compensation when having tracker switched off during a longer period
- Improved lock-on behaviour when using Spiral Search
- General bug fixes

* ATS600 with manufacturing date from January 2023 onward cannot be downgraded to system software versions below 1.1.3

Tracker Pilot

- Fixed issue with ADM Offset wizard for Custom reflectors

Current Limitations & Known Issues of version 1.1.3

N/A

Please refer to [Software Installation](#) for instructions how to update the system to the new system software.



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Version 1.1.2

ATS600 v1.1.2 is the 5th system software package for the Leica Absolute Laser Tracker ATS600. Please note that this package is only compatible with the ATS600. The Tracker Pilot (v3.8.1) coming with this version is compatible with ATS600 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,
- v4.0.x for AT930/960,
- V4.1 for AT500.

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

N/A

Improvements and Bug Fixes

General

- Support of new Base Board Interface
- Improvement of lock on behaviour at longer distances

Tracker Pilot

N/A

Current Limitations & Known Issues of version 1.1.2

- Unable to connect to system with LMF 1.9 in 3rd parties when using Laser Scheduler in some time zones.

Please refer to [Software Installation](#) for instructions how to update the system to the new system software.



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Version 1.1.1

ATS600 v1.1.1 is the 4th system software package for the Leica Absolute Laser Tracker ATS600.

Please note that this package is only compatible with the ATS600. The Tracker Pilot (v3.8.1) coming with this version is compatible with ATS600 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,
- v3.7.x for AT930/960.

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

N/A

Improvements and Bug Fixes

General

- Adapted environmental parameter range for automatic meteo readings regarding measurements at high altitude

Tracker Pilot

- Improved update logic
- Fixed issue with “AppLocker” setting in Windows 10 preventing Tracker Pilot to launch
- Fixed issue with the AP Mode preventing to establish a connection when changing from an unprotected to a password-protected network
- Fixed issue with the Continuous Time measurement mode preventing the measurement process to finish

Current Limitations & Known Issues of version 1.1.1

N/A

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



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Version 1.1.0

ATS600 v1.1.0 is the 3rd system software package released for the Leica Absolute Tracker ATS600 containing major improvements and new functionality. Please note that this package is only compatible with the ATS600. The Tracker Pilot (v3.8.1) coming with this version is compatible with ATS600 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,
- v3.7.x for AT930/960.

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

- New OVC panorama image mode to define larger scan perimeters
- New Ring Scan mode
- New Line Scan mode, can be used as Linear and Crossline mode
- Uniform grid scanning (evenly spaced point cloud) for area scan mode
- “Use” flag for area scan region
- 1.5” BRR and 0.5” RFI added to supported reflector types
- OVC live image rotated when Tracker is mounted upside-down
- Hard shock detection and notification
- System software 1.1 for ATS600 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 resolution and more zoom steps of OVC live image
- Improved OVC handling and navigation, including deleting of area scan perimeter points
- Speed optimized scanning pattern (instrument movement)
- Improved performance for measurements in outdoor environment, including switchable cross hair in OVC live image
- Improved point cloud filter, new geometrical angle-of-incidence (AOI) filter and improved signal quality filter implemented. New default settings in system software: 75° AOI and signal quality filter “Low”.
- Improved switching between target measurement mode and reflectorless measurement mode

Tracker Pilot

- New “all user” setup option is provided
- ADM Offset wizard for Custom reflectors
- Hidden WPA passphrase in WLAN network settings



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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

Current Limitations & Known Issues of version 1.1.0

N/A

Please refer to [Software Installation](#) for instructions how to update the system to the new system software.



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Version 1.0.1

ATS600 v1.0.1 is the 2nd system software package for the Leica Absolute Laser Tracker ATS600. Please note that this package is only compatible with the ATS600. The Tracker Pilot (v3.6.1) coming with this version is compatible with ATS600 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,
- v3.5.x for AT930/960.

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.

Improvements and Bug Fixes

General

- Improved sensor initialization process
- Fixed issue where tracker head movement in OVC did not respond to user input (Ctrl + left click & drag)
- Fixed issue where systems could hang-up in rare cases during long term operations, i.e. auto-inspect

Current Limitations & Known Issues of version 1.0.1

N/A

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



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Version 1.0.0

ATS600 v1.0.0 is the first firm- and software package for the Leica Absolute Laser Tracker ATS600.

Please note that this package is only compatible with the Absolute Tracker ATS600. The Tracker Pilot (v3.6) coming with this version is compatible with ATS600, it 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,
- v3.5.x for AT930/960.

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 accompanied product USB memory stick.

Current Limitations & Known Issues of version 1.0

N/A



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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 "*SetupATS600 TrackerPilot.exe*" and follow the instructions on the screen.

Update ATS600 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 [ATS600 Download](#) and via Hexagon Universal Updater.

- 1) Start Tracker Pilot.
- 2) Login as Advanced User.
- 3) Navigate to "Updates" and click "Search and Start update" and Select the update file or Start Update if Leica Update Manager is used
- 4) Note the estimated duration of the update, which varies depending on the modules to be updated, and start the process by clicking "Start Update Now".

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.

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, September 28, 2023