Applanix POSPac Complete

High Accuracy Mapping Made Easy!

Applanix® POSPac™ Complete is the next generation of industry-leading GNSS-Aided Inertial post-processing software from Trimble® Applanix, optimized for georeferencing data collected from cameras, LiDARs, multibeam sonars, and other sensors on mobile platforms. POSPac Complete is engineered for all environments and platforms (crewed/uncrewed air, land, marine), providing maximum accuracy and efficiency for Direct Georeferencing. Experience a modernized user interface with background maps and streamlined workflows, enhancing usability and productivity. Batch Command Line Processing ensures automated, consistent, and repeatable results.

Use Trimble RTX® technology

Leveraging Trimble CenterPoint® RTX technology, POSPac Complete delivers significant benefits for all mobile mapping applications:

- Achieve centimeter-level accuracy within minutes after data collection with just an internet connection – no need to set up or purchase base stations.

- Map inaccessible regions or areas without existing Continuously Operating Reference Stations (CORS) avoiding the cost of deploying local base stations.

- Correction data is available within minutes after data acquisition, or even "over-the-air".

- Benefit from faster PP-RTX convergence times in Global Regions (under 3 minutes with BeiDou-III) and Fast Regions (1-2 minutes).

- Direct download of correction data means no trajectory upload is required.
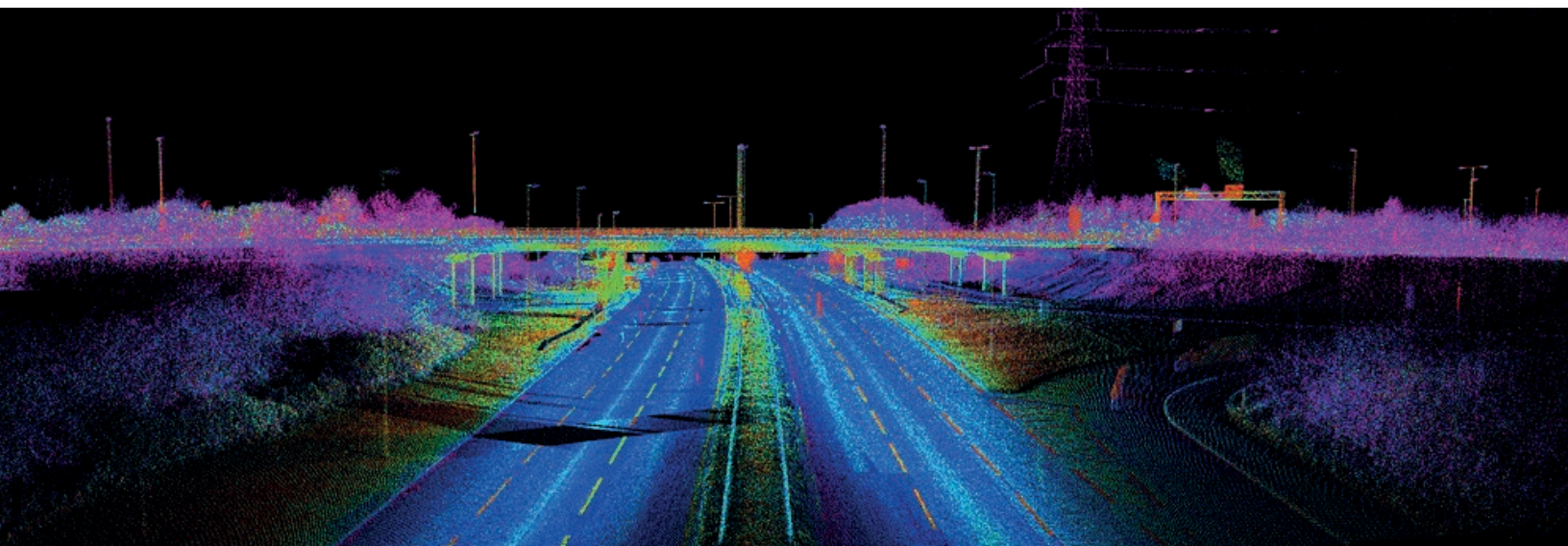
IN-Fusion+ processing

Our core multi-sensor fusion engine, Applanix IN-Fusion®+, offers enhanced performance by utilizing multi-satellite and multi-frequency GNSS constellations.

- Offers enhanced robustness, reliability, and accuracy in challenging GNSS environments, such as urban canyons or areas with dense foliage.

- Includes substantial Tropomodel improvements for high-altitude missions.

- Available for all environments and mobile mapping applications.

Trimble IonoGuard

Mitigate the impact of ionospheric scintillations, especially important as solar activities reach their peak in the current solar cycle.

- Trimble IonoGuard™ is Trimble's latest technology for ionospheric scintillation detection.

- Supported in IN-Fusion+ Single Base and PP-RTX processing modes.

®Trimble

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LiDAR QC tools

Applanix LiDAR QC Tools are a set of POSPac Complete software tools designed to achieve the highest level of georeferencing accuracy with LiDAR sensors.

- Supports both single and dual LiDAR sensors.
- Generates a consistent and homogeneous point cloud through trajectory adjustment, leveraging LiDAR data as an aiding sensor (SLAM).
- Now supports Ground Control Points (GCPs) for better absolute point cloud positioning.
- Integrates seamlessly with various hardware systems.
- Supports native Riegl LiDAR formats in addition to Velodyne, Hesai, and Trimble LiDAR.

Camera QC tools

Camera QC is the robust successor to CalQC, designed for rapid boresight calibration of cameras.

- Supports single-head and multi-head (oblique) camera constellations.
- Ensures unbiased Direct Georeferencing performance.
- Offers an effortless and intuitive workflow with minimal user interaction.
- Automatically determines Kappa Cardinal Rotation and Ground Height for successful tie point matching.

Licensing & business model

POSPac Complete introduces an "All-In-One" term license model, bundling all GNSS augmentation options for unparalleled value and simplicity.

- **Simplified Managemen**t: A single license eliminates the complexity of managing and purchasing separate POSPac Complete components.
- **Predictable Budgeting**: Enjoy lower upfront investment and predictable annual expenditures.
- **Continuous Innovation**: Always use the latest software and features to maximize competitiveness and productivity.
- **Full Support Included**: All term licenses include comprehensive support and maintenance.

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Key Features

- IN-Fusion+ PP-RTX - centimetric results from GNSS-INS processing without base stations.
- Modernized User Interface with background maps and streamlined workflows.
- IonoGuard for ionospheric scintillation mitigation.
- Optional LiDAR QC Tools with GCP support, native Riegl format support, and enhanced performance.
- Optional Camera QC Tools for rapid boresight calibration of single and multi-head cameras.
- Initialization without GNSS support.
- BeiDou-only processing support for specific market requirements.
- Batch Processing for automation and higher productivity.
- Optional Trimble GNSS Augmentation (TGA) subscription for additional base station support (+3,200 stations), supplementing the existing worldwide CORS database (10k+).

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