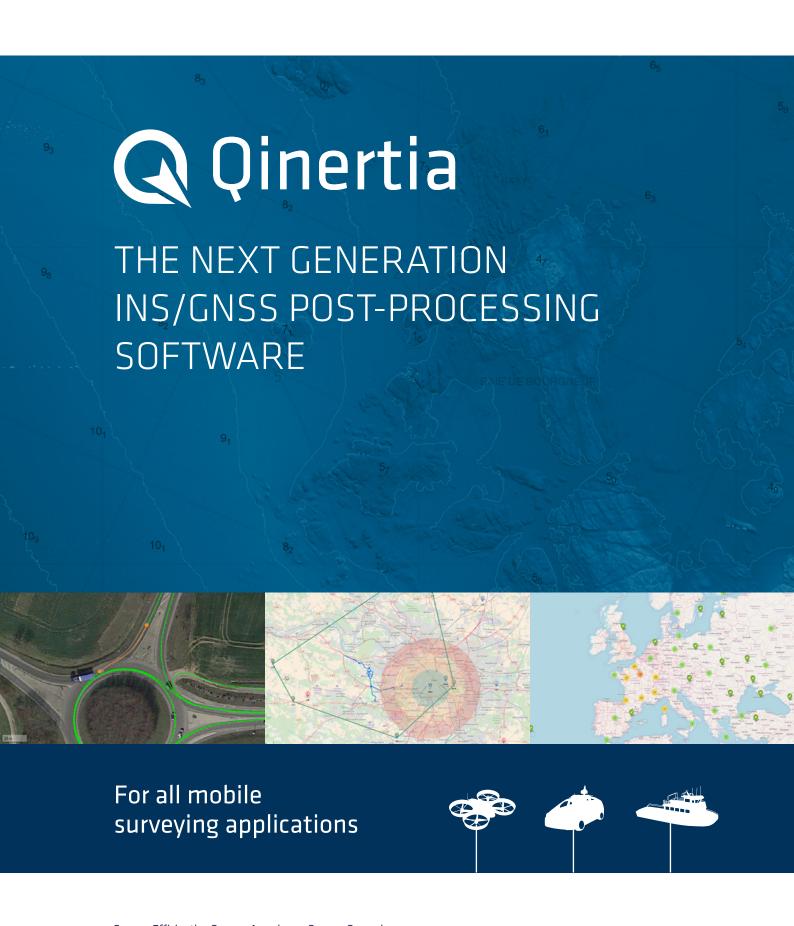
Qinertia





Qinertia

The Next Generation INS/GNSS Post-processing Software

Qinertia is the SBG Systems in-house post-processing software. Full-featured, Qinertia enhances SBG inertial navigation systems performance by post processing inertial data with raw GNSS observables.



ALL-IN-ONE SOLUTION

INS/GNSS Tight Coupling Post-processing

Static and Kinematic GNSS Post-processing

KFY FFATURES

- » Tightly coupled solution for unmatched accuracy and reliability
- » Centimetric position using offline RTK corrections or Precise Point Positioning*
- » Seamless Integration of Odometer and Dual Antenna GNSS Receiver
- » Multi-Constellation Support (GPS, GLONASS, GALILEO, BEIDOU)
- » Support of third-party IMUs and any GNSS receivers

The Best Achievable Orientation and Position Accuracy



GNSS position accuracy = 1 cm + 1 ppm (RTK/PPK). RTK = Real-time Kinematic. PPK = Post Processing Kinematic. Heading with a 4-meter baseline. RMS values for typical marine survey trajectories, better performance in automotive. Preliminary version. All specifications subject to change without notice.

^{*} Precise Point Positioning will be available in the next major update for users under valid maintenance plan



Powerful Base Station Management

- » 2 modes available:
 - · Single Base Station
 - Virtual Base Station*
- » Drag & drop user's base station (binary or RINEX format)
- » Preview trajectory and base stations on a map



- » Virtual Base Station computation using both permanent and user's base stations
- » Visualization of expected accuracy and quality
- » Base station position review with PPP computation

Intuitive Base Station Explorer

- » Access to more than 7,000 base stations over 164 countries
- » Always up-to-date database
- » Automatic download and quality check
- » Web-based pre-mission visualization
- * Will be available in the next major update for users under valid maintenance plan

Fast and Simple Workflow

IMPORT

Easily import SBG inertial data
Compatible with industry standard
GNSS receivers (RINEX) 0
Native support of Septentrio,
Novatel, Trimble, and Ublox.

Harrier Harrier Land

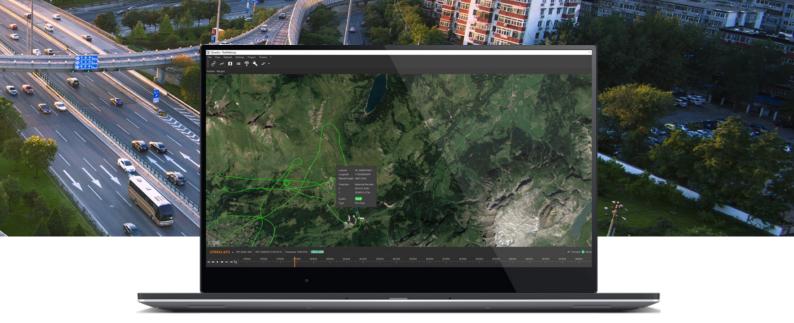
Download

or import

Base stations

Review mechanical installation

3 Launch Processing



Processing Made Easy

- » Motion Profiles selection to tune sensor behavior to the application dynamics
- » Seamless Integration of aiding equipment with specific error models
- » Advanced multipath and rejection filters
- » Automatic Lever arm and alignment estimation



Fast & Modern Technology

- » Less than 3 minutes for a 6-hour log thanks to Forward and Backward computation at the same time
- » Handle very large logs thanks to modern 64-bits design
- » Cross-platform support:
 - Windows
 - Mac OS X*
 - Linux*

Extensive Quality Indicators

- » Interactive quality indicators assessment
- » Display of advanced parameters (separation, standard deviation, bias, scale factor, lever arm)
- » Statistics report generation (RMS, min/max)
- * Will be available in the next major update for users under valid maintenance plan

Review Quality Indicators

EXPORT

Define and export your own custom text

format

Open to industry standards (SBG, SBET,

Google Earth)

Handle datum & projections

Export based on different events:

- Time interval
- Distance interval
- Event markers

Create and re-use your own export preset

Qinertia - Your Full-featured Post Processing Solution











All applications

Post-processing of GNSS Static and Kinematic data.





UAV applications

Processing trajectory within a 3km radius limit.

GNSS Only included.





Land/Air applications

Full processing with Ellipse sensors in Land/Air applications. GNSS Only included.





All applications

Full processing with any IMUs and GNSS receiver.

GNSS Only included.

FLEXIBLE LICENSING

Easily share your floating license with your team. We offer flexible licensing options (perpetual or subscription) to best fit your needs.

PERPETUAL LICENSE

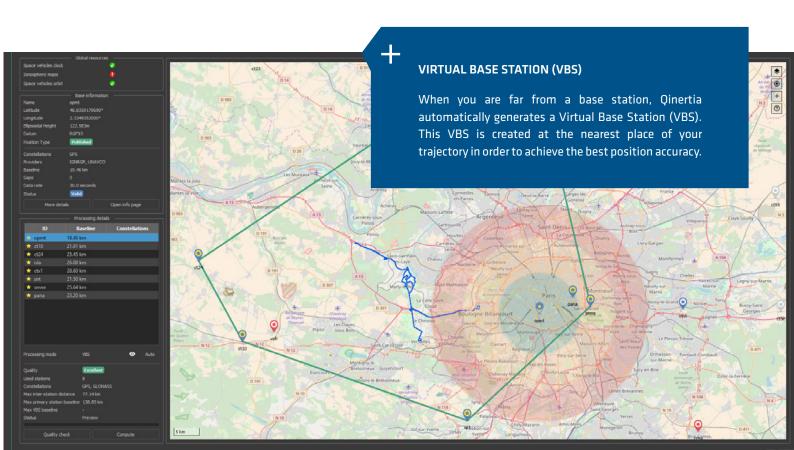
Initial purchase + yearly maintenance

SUBSCRIPTION

1 Month

12 Months

^{*} Processing trajectory within a 3km radius limit. 1 year free subscription when buying a Quanta solution.







SBG Systems is a leading supplier of inertial motion sensing solutions. The company provides a wide range of inertial solutions from miniature to high accuracy. Combined with cutting-edge calibration techniques and advanced embedded algorithms, SBG Systems products are ideal solutions for industrial & research projects such as unmanned vehicle control, surveying applications, antenna tracking, and camera stabilization.

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