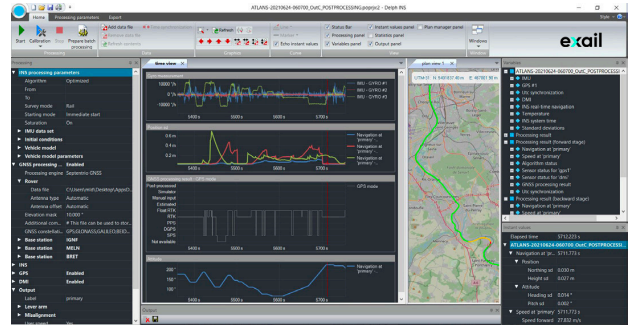


# Delph INS

Post-processing software  
for Exail navigation solutions

Delph INS is a post-processing and batch productivity tool for all the Exail INS products dedicated to airborne, land and hydrography applications (compatible with both the former and new generation). Powerful data management, visualization and advanced processing functions make this tool essential for quick and precise trajectory computation. Delph INS benefits from smart coupling technique between Exail inertial algorithm and the GNSS postprocessing engine.



## MAIN FEATURES

- All-in-one INS and GNSS post-processing software
- Forward – backward processing technique
- User friendly MMI for external reference station data selection and import
- Post-processing with customized settings
- Calibration processing tool available for:
  - Lever arm estimation (GNSS and odometer)
  - Misalignment and scale factor (odometer)
- Position, Speed and Attitude computed with reliable standard deviations:
  - Selection of output lever arm & misalignment
  - At rate up to 200Hz or synchronized on eventmarkers
- Flexible data import/export, allowing easy integration in processing workflow
- QA/QC report
- Easy to automate to ensure batch productivity
- Lifetime license, one-year warranty for technical support and software updates

## COMPATIBILITY

- Main industry LiDAR and image post-processing software (Riprocess, QINSy, ESRI, ...)
- Dedicated post-processing software thanks to editable output formats

## INPUT FILE FORMATS

- Exail INS postprocessing protocol (@100 or 200Hz)
- GNSS rover raw data in SBF (Septentrio Binary File)
- GNSS reference station in RINEX format
- GNSS rover raw data in RINEX format
- External position file in predefined text format

## OUTPUT FILE FORMATS

- Kml, kmz (Google Earth)
- SBET (POSPac format)
- Plain text file
- imr, .dmr (Inertial Explorer)

## REQUIREMENTS

- Microsoft Windows 10 or Windows 11
- Intel Core I5 – 2GHz – 4Gb RAM
- 400 Mb HD space
- Google Chrome (latest stable version), Firefox (latest stable version), Microsoft Edge (latest stable version; Chromium-based only), Microsoft Internet Explorer 11.

## TECHNICAL SPECIFICATIONS

Application	Exail INS	GNSS (raw data)	GNSS (PVT*)	DMI	Vehicle model	Event marker
Hydrography	Hydrins	●	●			●**
Land	Atlans A7	●	●	●	CarModel	●
Air	Atlans A7	●	●			●
	Airins	●	●			●
Rail	Atlans A7	●	●	●	RailModel	●

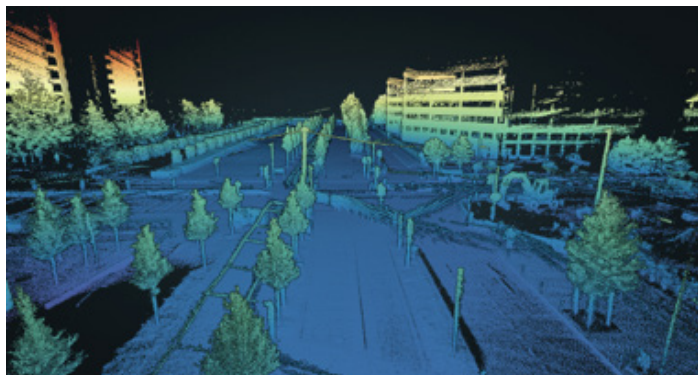
\* live PVT data or fixed position from control points

\*\* external eventmarker only

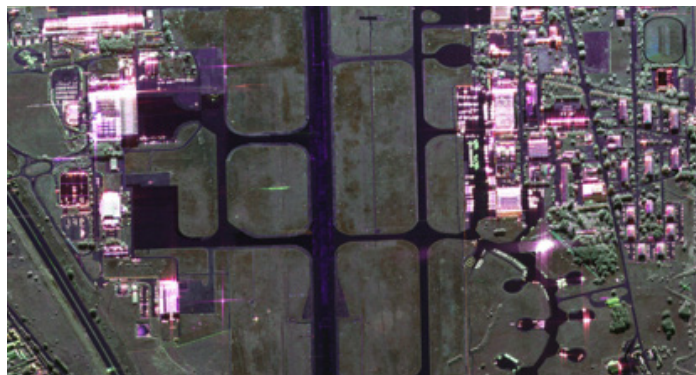
## OPTIONS AVAILABLE

- Only GNSS PVT
- GNSS raw data from Septentrio receiver
- GNSS raw data from any receiver

## APPLICATION EXAMPLES



Paris airport LiDAR mapping using Atlans A7 land data post-processed with Delph INS, Courtesy of Navya



20cm resolution X band SAR image using Airins data post-processed with Delph INS, Courtesy of ONERA