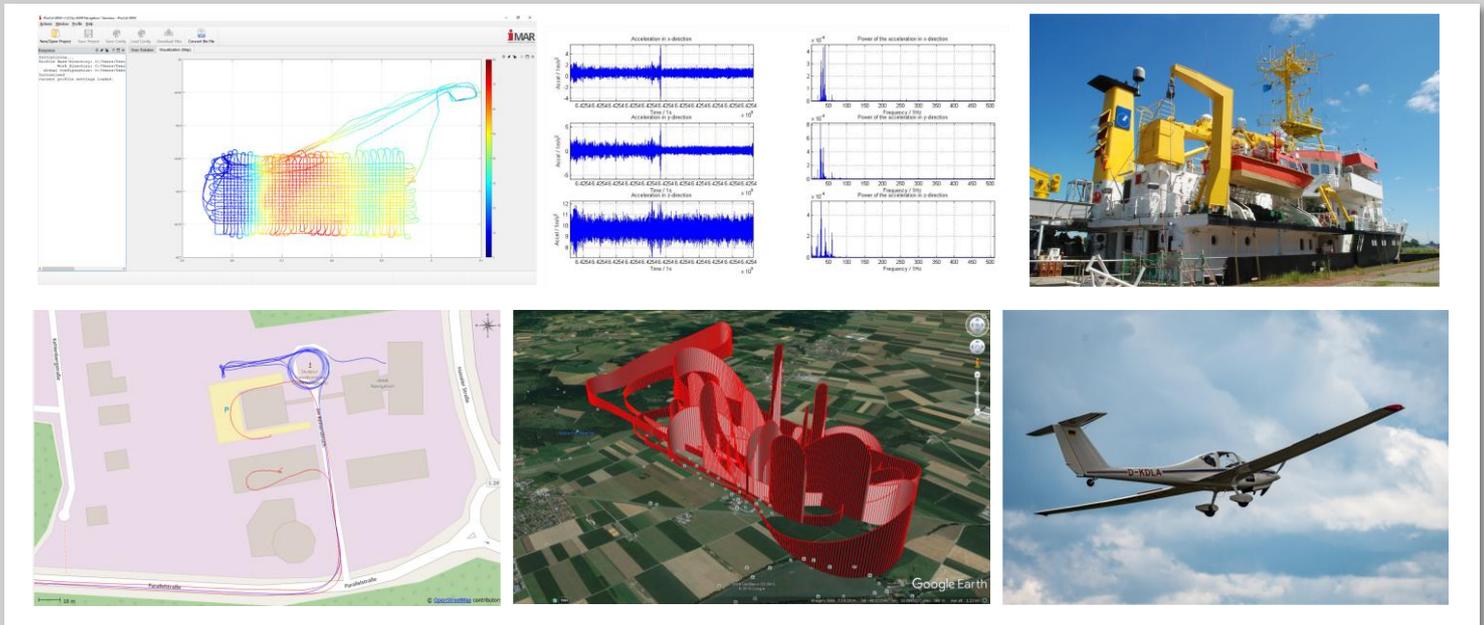


## INS/GNSS Post-Processing & Calculation Software for iXCOM-based Inertial Measurement Units

Determination of Position, Velocity, Attitude and Gravity Disturbance - *with a single click!*



**iPosCAL** is iMAR's powerful and easy-to-use INS/GNSS/ODO post-processing software, fully compatible with all iMAR INS/GNSS devices supporting the iXCOM communication protocol, like iNAT, iCORUS, iTraceRT-MVT, iRail, iATTHEMO, iPST etc. The software allows the processing of a single data set as well as the fully automated **ultra-fast batch-evaluation** of a larger survey campaign, with up to hundreds of flights / tracks. **iPosCAL** is available in several editions:

**iPosCAL-SURV**, designed for IMS-based **surveying**, allowing the precise determination of position, velocity and attitude over time, along with the respective standard deviations. The software is designed for the full range of INS/GNSS applications: From low-cost MEMS up to highest performance with optical or hemispherical gyroscopes, thereby covering any industrial, automotive, railway, airborne, marine, surveying, defense and research applications. [P/N 00028-00036-xxxx]

**iPosCAL-GRAV** is designed for airborne or shipborne **gravimetry** campaigns, in combination with iMAR's family of strapdown gravimeters iCORUS. *On top* of all the features of iPosCAL-SURV, it offers additional functionality for airborne or shipborne gravimetry: The automated determination of survey line endings, an automated generation of cross-over statistics as well as basic cross-over network adjustment methods, the generation of gravity map images, and more. [P/N 00028-00032-xxxx]

**iPosCAL-PST** is designed for pipeline surveying using iMAR's iPST **pipeline surveying tools**. *On top* of all the features of iPosCAL-SURV, it offers additional functionality for specific pipeline related marker aiding procedures, specific odometer processing etc. [P/N 00028-00034-xxxx]

### CAPABILITIES & FEATURES

All editions of **iPosCAL** offer an easy-to-use simple processing mode for the less experienced user, as well as an expert mode, allowing the fine-tuning of all relevant processing parameters, GNSS-arrays with multiple antennas, user-customizable output files, and much more.

- Position, velocity, attitude and standard deviation determination with exceptional performance
- ultra fast processing speed and very high accuracy (**~5 seconds processing time per 1 hour measurement data**)
- Determination of gravity (*version iPosCAL-GRAV*)
- Automated, batch-processing to handle even very large campaigns (command line interface available)
- Signal Processing: multi constellation / multi frequency GNSS, Filter and spectrum analyzer capability, lever arm estimator, multi-turn calculation etc.

***The high performance, ultra fast and easy-to-use Post-Proc Solution  
for both, Field Operators and Experts***

