

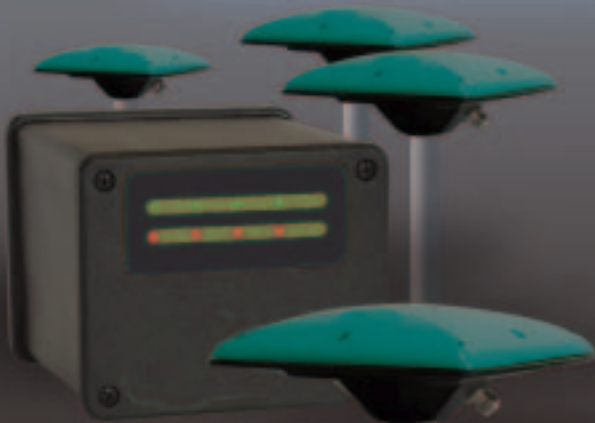
- Development
- Services
- Sales

GART-2000[®] navigation



Software for easy setup, data management, visualization and analysis of complex measurement systems

GNSS attitude system



Inertial measurement System



GART-2000[®] navigation

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Technical Features:

GART-2000[®] navigation is a project-related, hardware-independent real-time and analysis software with a modular structure, which is especially suitable for dynamic applications. GART-2000[®] navigation primarily controls the Gyro multi-antenna systems from Javad Navigation Systems and is open to the integration of further sensor systems. The relevant navigation data are visualized, archived, and available for subsequent processing. A link with an Inertial Measurement Unit (IMU) is also implemented, which enables the high-precision determination of position and location even in shaded conditions (e.g. beneath bridges).

Highlights:

- Simple project administration and module management

Based on a project framework, GART-2000[®] navigation provides simple management of the various hardware modules (e.g. Javad Gyro-2, Gyro-4 and IMU) in each project. Individually customized modules can be developed and integrated.

- Module-oriented communication settings and User-friendly script management

GART-2000[®] navigation has a clearly arranged configuration mask covering all modules for controlling the individual hardware elements. Depending on the number of modules, GART-2000[®] navigation opens several module windows within the project window.

- Effective message management

GART-2000[®] navigation provides clear, module-oriented message management. A distinction can be made between messages that are only relevant for the display, messages that are

currently being saved, and the output rate of these messages.

- Secure data logging and efficient database in the background

GART-2000[®] navigation allows the log files to be easily selected. The log files are module-oriented. All configuration settings are automatically saved in a configuration database. During data analysis, log files can be transferred into a MS Access based database for analysis.

- Comprehensive viewing options

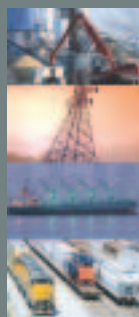
GART-2000[®] navigation offers various graphics windows with navigation information that can be freely positioned or can be automatically arranged within the respective module window. GART-2000[®] navigation thus enables an individual, module-dependent layout of the information displayed. Customer-specific displays can be developed and integrated.

- Customized analysis

GART-2000[®] navigation has an analysis module that transfers all the logged measurement values into the database and makes them available for various evaluation processes. For example, the combined data from the Javad IMU and Gyro-4 can be represented in tabular and graphical form. The integrated efficient algorithms can lead to better results in advanced analysis. The algorithms adapted by ALLSAT are tested, and state-of-the-art.

System Requirements:

Microsoft Windows 2000/XP, Microsoft Data Access Components (MDAC 2.8) (incl. in XP Service Pack 1)



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