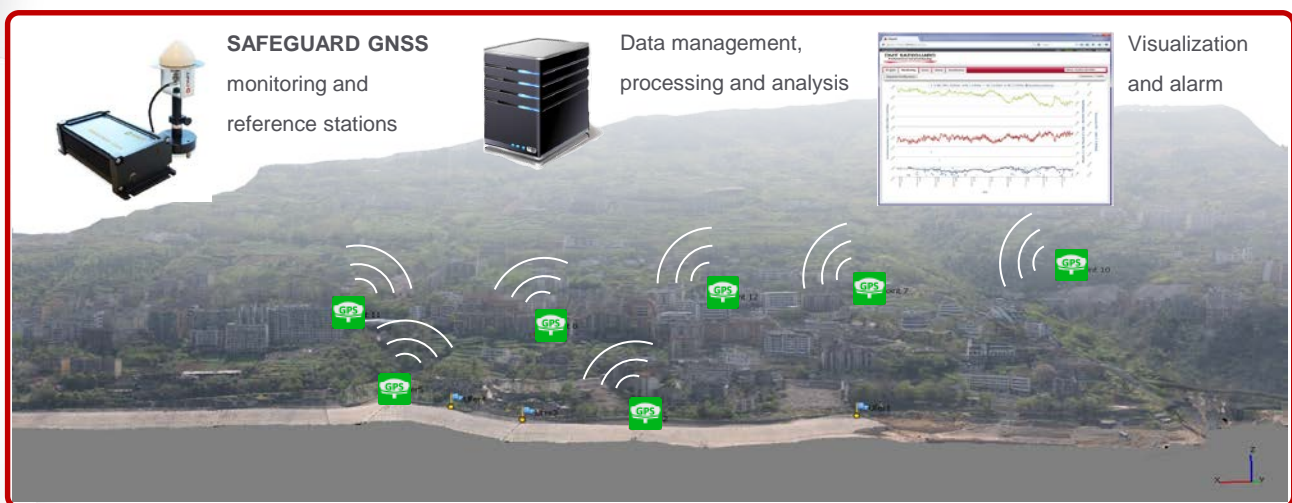


SAFEGUARD GNSS

Low-Cost Movement and Deformation Monitoring

For monitoring of surface movements, slope stability or object integrity SAFEGUARD GNSS provides you with an inexpensive system including sophisticated measurement technology and reliable data analysis. After uncomplicated and fast installation of the measuring instruments on site, SAFEGUARD GNSS performs an automated data processing and analysis. The measurement results are presented via an interactive and user-friendly website keeping you up-to-date with the most recent monitoring status.



SAFEGUARD GNSS offers sub-centimeter accuracy for a precise deformation detection.

- Integrated L1 GNSS system with reliable uBlox chipset
- GNSS antenna Tallysman, variable antenna model due to external connection
- Compact, weatherproof enclosure and robust component rack
- Low power consumption through sophisticated energy management with variable standby and sleep modes - operation on AC power and independently via battery or solar panel
- Integrated, automatic, wireless data transmission via mobile communications
- Data management and processing within the DMT SAFEGUARD monitoring system including:
 - Automated and centralized storage of GNSS data on high-performance servers
 - Automatic data processing with WA-Soft / GOCA or Bernese GNSS Software
 - Online data visualization with GIS integration via a user-friendly internet portal
 - Online data export and PDF reports
 - Integration of additional sensors and geospatial data
 - Automatic alarm messages when exceeding warning and limit values

Specifications – SAFEGUARD GNSS

- **GNSS system**
GPS, GLONASS L1 C/A code- and carrier signal, 50 channels
- **Accuracy**
Static - horizontal and vertical <1.0 cm for baseline length < 20 km, the accuracy depends on the baseline length, number of visible satellites, satellite constellation, multipath and atmospheric influences
- **Communication, data management**
Data storage with internal buffer memory, manual data transfer via USB, uBlox raw data and RINEX format, automatic data transfer to DMT SAFEGUARD CoreServer via GSM/GPRS, automatic data management, individually adjustable tracking and processing intervals
- **Physical Properties**
Device dimension (length x width x height): 22x12x8 cm, Status (LED): On/Off/Recording, Button: On/Off, TNC antenna port, power supply port
- **Operating conditions**
Protection: IP67, Housing material: aluminum
- **Power supply**
5V DC, Internal Battery: 3.7 V 1.25 Ah, Safety Protection: short circuit, max charge and discharge currents, temperature monitoring
- **Options and accessories**
GNSS antenna Tallysman or navXperience 3G + C, mounting rack, external battery, solar panel



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