

Applications



Landslide Slope Monitoring



Collapse Monitoring



Road Highway Monitoring



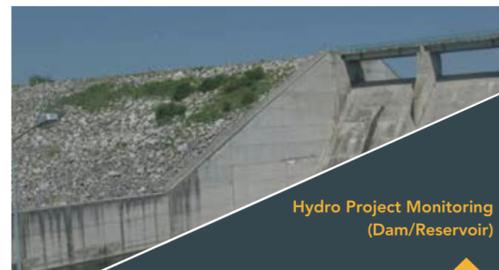
Building Structure Health Monitoring



Debris Flow Monitoring



Ground Settlement Monitoring



Hydro Project Monitoring (Dam/Reservoir)



Bridge Viaduct Monitoring



Tunnel Convergence Monitoring

SATLAB
GEOSOLUTIONS

Smart Monitoring Solution

Be aware of everything that matters

Providing monitoring professionals with the flexibility to swiftly analyze and understand complex projects with the highest accuracy and reliability, the Satlab Smart Monitoring Solution is scalable and fully customizable for the specific needs of any users. The system adopts the most advanced millimeter level GNSS monitoring algorithm developed by Satlab to overcome any monitoring challenges for continuous or periodic jobs.

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Smart Monitoring Cloud Platform



Smart Monitoring Cloud Platform, which is the main component of the system, gives instant early warning alarms for slight changes. These monitoring data is transmitted to the Satlab Monitoring Management Center, which can be accessed through the Smart Monitoring Cloud Platform. Making it simple and accessible for our professional users to control everything from just one deployment.

FEATURES

- Automatic data acquisition, analysis, storage, statistics, reporting and output
- Site device remote management and abnormal self-diagnosis
- Real-time automated monitoring and warning mechanism
- Plentiful kinds of sensors integration and CCTV linkage
- Support true 3D real scene displaying and analysis

- Expert diagnosis conclusions entry and manual data backfill
- Support multi-level administrative area management
- Multi-project, multi-user authorization concurrency management
- Can be combined with a variety of early warning analysis and evaluation models

The seamless mobile monitoring application maximizes productivity with the possibility to manage projects anytime, anywhere.

FUNCTIONS

- Remote multi-projects management
- Monitoring data and device status review
- Inspection management and uploading
- Alarm notifications and WAP push reminder
- Seamless data synchronism to the monitoring cloud platform



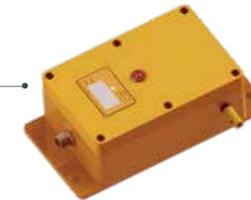
All-in-one Monitoring Stations

The all-in-one monitoring station features an integrated solar panel, sensor, control unit and data transmission unit into one, which eases the installation process and is easy to debug without massing of cables.



Smart Monitoring Solution-Hardware

HDS102 Multi-dimensional Intelligent Sensor



- GNSS positioning module
- Crack monitoring module
- Earthquake sound and vibration monitoring module
- Big capacity battery and storage
- Data pre-processing
- Low consumption data transmission
- Inclination module

SRT1

Robotic Total Station

- 1" Accuracy with composite aluminum gearing for stability
- Stable performance even in the most adverse conditions
- Easy data management with SATCONT software



HDM100

Geotechnical Data Collector Terminal

- Real-time updates with local storage
- Multiple inputs with extensions available
- Intelligent self-test and status report
- Ultra-low power consumption with long standby capabilities



M302

Surface Displacement Monitoring GNSS Receiver

- Full constellation GNSS receiver
- Built-in large capacity lithium battery
- Built-in mass data storage card
- Reliable support for breakpoint resume
- Collect and transmit data from other sensors



M331

One-piece Emergency Monitoring GNSS Receiver

- Full constellation GNSS signals with small integrated design
- 16GB high capacity storage that supports continuous data storage of up to 50 months
- 4G full network communication
- Remote management, remote upgrade and status feedback
- Built-in hardware watchdog to ensure continuous operation unattended
- Data encryption transmission to ensure information security
- Freely switch to base or rover with access from CORS network
- Overcurrent and overvoltage protection and IP67

