



+ GMS-Prism

The GMS-Prism (Geotech Monitoring Station) is designed as a long-term, background monitoring tool.

Highly accurate, the system tracks and monitors prisms installed on the area of interest.

It specialises in monitoring open cut pits and highly vegetated slopes, and detecting and measuring deformation on tailings dams, dumps and cuttings.

Whether choosing the GMS-Prism or its sister-model, the GMS-Dual, both systems are equipped with a range of features that take them well beyond the capabilities of typical robotic total stations.

The system has undergone significant software updates, making it even more user-friendly and useful.

Features and Benefits

HIGH ACCURACY POINT MEASUREMENTS

The GMS-Prism measures and displays deformation for prisms with high accuracy.

Prism Points are highly accurate, can be scanned from long ranges, and are fast to scan.

All measurements are processed and ready for analysis at the end of each scan, enabling early detection of movement.

For additional accuracy, the vector movement in 3D is also measured, giving users a better understanding of ground conditions with the benefit of both readings.

AUTOMATIC PRISM COLLIMATION

Prism Points are automatically tracked and located at every scan.

There are two lasers on board; one for measuring deformation and one dedicated to prism collimation.

This ensures that even if a prism is moving, its location is never lost, without ever relying on historical data for coordinate information.

The GMS hunts for, finds and locks Prism Points into their exact position with each and every scan.

MONITORING NEVER STOPS

With a built-in failsafe for increased robustness, the GMS will never miss a scan, much unlike other systems on the market.

Through its on-unit processing and our software's trusted data sync feature, the GMS will continue to collect data, even if the Wi-Fi is lost or the Primary Monitoring Point is shut down.



TWO WAYS TO MONITOR

For ultimate flexibility, the GMS-Prism can also be used a periodic monitoring tool to suit differing site needs.

Multiple areas can be scanned at regular intervals using the one device, allowing periodic coverage of typically active areas.

AUTOMATED GEO-REFERENCING AND DATA EXPORT

The GMS has fully automated geo-referencing capabilities, needing only two reference points with known coordinates.

Any prism coordinates and/or the GMS device location can be nominated as reference points.

Data is fully geo-referenced, and coordinates are updated and exportable on every scan.



Powerful Software

SOPHISTICATED DATA VISUALISATION AND ALARMING

No longer relying on basic spreadsheets, all data from the GMS is intuitively visualised in GroundProbe's patented software, SSR-Viewer.

Powerful visualisations include both 3D DTM View and Front View.

Users are given access to its entire suite of charting, analysis and alarming tools, gaining the full benefits that our radar customers are accustomed to on top of a range of features developed specifically for the GMS.

DATA AND IMAGE CO-REGISTRATION

In SSR-Viewer, high-definition images are co-registered with the data generated by the GMS.

The data is visualised as a deformation heatmap and draped directly over the image, providing spatially co-located information of every point.

By clicking on any part of the image, movement can be reviewed and assessed live.

MULTI-SENSING MONITORING

All data collected can also be directly imported into data aggregation software MonitorIQ, allowing users to visualise GMS and other geotechnical sensor data in a standardised format to run analysis, discover trends and generate powerful reports.



