MonitorIQ® Desktop

We collect data in different ways, but it's our software that processes this complex data, and makes it easily understood.

MonitorIQ® Desktop is our dedicated geotechnical analysis platform allowing users to view and analyse data from single or multiple GroundProbe sensors.

For over 20-years our industry-proven MonitorIQ® Desktop software has provided the rapid, precise analysis of data to detect trends, and the ability to send alerts for immediate action.

MonitorIQ® Desktop is constantly being refined in collaboration with our customers, ensuring it remains intuitive, in tune with industry needs and offers a continually evolving set of data analysis features.

MonitorIQ® Desktop is now the common platform across all of our systems and sensors.

groundprobe.com

Features and Benefits

SAFETY-CRITICAL BY DESIGN

Developed from the ground up, MonitorIQ® Desktop is safety-critical by design, with features such as Critical Monitoring mode, software and hardware watchdogs, remote back-up, health monitoring and a range of system alerts.

The software is also configured to trigger self-maintenance routines for the radar hardware, increasing the life span of some of the critical components of the system, ensuring users receive the most out of their asset.

This release also includes the Alarm Centre, GroundProbe's safety-critical application that visualises alarm notifications from all SSRs on one screen.

INDUSTRY-LEADING VISUALISATION METHODS

Employing three distinct techniques to visualise data, users can quickly understand and conduct a detailed analysis.

Front view aligns data with high-resolution photographs captured live on site. Plan view fuses data and multiple layers of mapping from above with ground-level photos.

Our DTM tab co-locates radar data, photos, and external 3D models such as mine plans, geology layers and structures in a powerful 3D visualisation. In all visualisations, the heatmap of deformation is draped over the scene.

DATA AND IMAGE CO-REGISTRATION

All of GroundProbe's products feature a high resolution, integrated imaging system for real-time photographs that are co-registered with the radar and laser data; a technique unique to and patented by GroundProbe.

When the data is visualised in MonitorIQ® Desktop, the deformation heatmap is draped over the high-resolution image. By clicking on any part of the image, movement can be reviewed and assessed live, with confidence.

VIEW MULTIPLE WALLS WITH DIFFERING SENSOR DATA CONCURRENTLY

MonitorIQ® Desktop provides users with the ability to open multiple walls from multiple GroundProbe sensors in a single MonitorIQ® Desktop application.

LONG-TERM MONITORING CAPABILITY

With the ability to monitor from a single point over a 12-month period, users can find and analyse long-term trends to better understand wall behaviour.

LOCAL OR REMOTE ACCESSIBILITY

Data can be accessed via MonitorIQ® Desktop locally and remotely on PC, tablet or other internet-connected devices, instantly, allowing for wider collaboration between critical decision-makers.

SAFETY-CRITICAL ALARMING SUPPORTED BY OUR DEDICATED ALARM CENTRE

Offering world-class alarming capabilities, users can set a range of networked, stackable and accurate alarm parameters providing them with the confidence they will be warned before a collapse occurs.

Working in conjunction with MonitorIQ® Desktop, GroundProbe's dedicated Alarm Centre application directly imports all alarms set up in MonitorIQ® Desktop for GroundProbe systems (like SSR-XT, RGR-Velox, GMS). This provides users with an efficient way to handle and acknowledge alarms from multiple sensors on one screen.

Through the Alarm Centre users can quickly and easily acknowledge individual or group of alarms and manually snooze them without interrupting other tabs.

BEST-IN-CLASS CHARTING TOOLS

Featuring an extensive charting library with an array of powerful tools, users can correlate data to identify trends, whilst reducing the clutter of data. Furthermore, the custom analysis tab allows you to view multiple types of data on a single, easily configurable chart. Effective reporting tools then help report the findings.

COLLAPSE FORECASTING

A powerful analysis and charting tool, inverse velocity forecasts the time of the collapse, giving users the confidence to make timely decisions crucial to the safety and operation of their mine.

decision confidence™