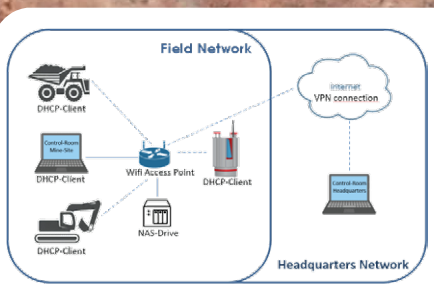
RIEGL Monitoring Apps

Real Time Analysis & Processing of *RIEGL* Scan Data

Monitoring and Remote Operation are the keywords of our time. The *RIEGL* terrestrial laser scanners are ready to meet these demanding challenges.

RIEGL presents four easy-to-use and intuitive monitoring apps that will support users in their daily work, especially in critical situations. Based on reliable real-time data, necessary decisions can be made promptly on a sound basis.

RIEGL's 3D terrestrial laser scanners can smoothly be integrated in any network infrastructure by using LAN, Wi-Fi, and LTE-interfaces, which enables fully remote operation of the scanners. With the installation of customized apps for automatic data acquisition and data processing, the user gets automatic real-time results without any user interaction.





RIEGL Monitor+ App

RIEGL Monitoring App

RIEGL Design Compare App

RIEGL Slope Angle App



www.riegl.com

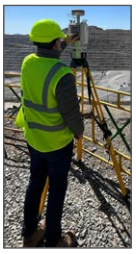
RIEGL®

Key Features

The *RIEGL* Monitor+ App offers full flexibility in one single application by integrating the functionalities of the Monitoring App, the Design Compare App and the Slope Angle App.

Support of Various Field Scenarios

The Monitor+ App is designed for maximum flexibility in use. This makes it possible to interrupt data acquisition and even temporarily remove the scanner in sporadic or regular monitoring. So the scanner can also be used for standard surveying tasks. As soon as monitoring is resumed, the Monitor+ app automatically performs scan position alignment to ensure accurate data comparison.



SPORADIC

short monitoring periods that are repeated from time to time





PERIODIC

longer monitoring periods that are constantly repeated





PERMANENT

24/7 monitoring



Multiple Areas of Interest

Defining different zones with individual scan schedules enhances monitoring productivity, e.g. high temporal frequency monitoring zones or zones using a different measurement program and scan resolution to provide results even under worst environmental conditions (dust, rain, etc.).



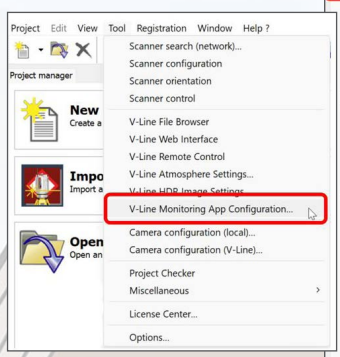
Intelligent Filtering

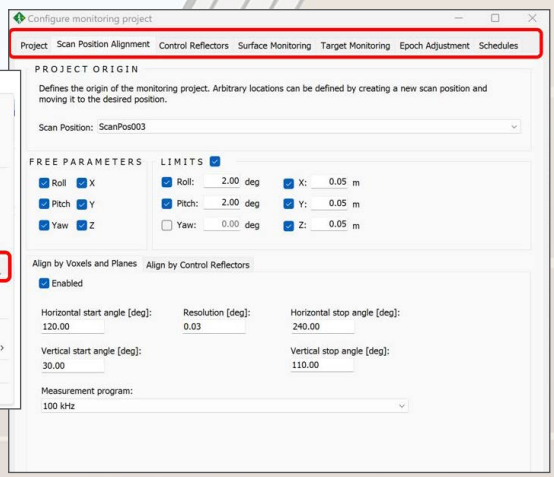
Scan pattern definition is limited to rectangular field of views. User-defined masks can be defined to prevent incorrect detection of changes (e.g. due to machine activity in the field of view) and subsequent automatic alerts.



Complex Monitoring Scenarios

Complex data acquisition and data processing schedules can be defined within the RiSCAN PRO configuration wizard and copied onto the scanner.
The Monitor+ App executes the defined schedules automatically and provides monitoring results via the integrated web-viewer.

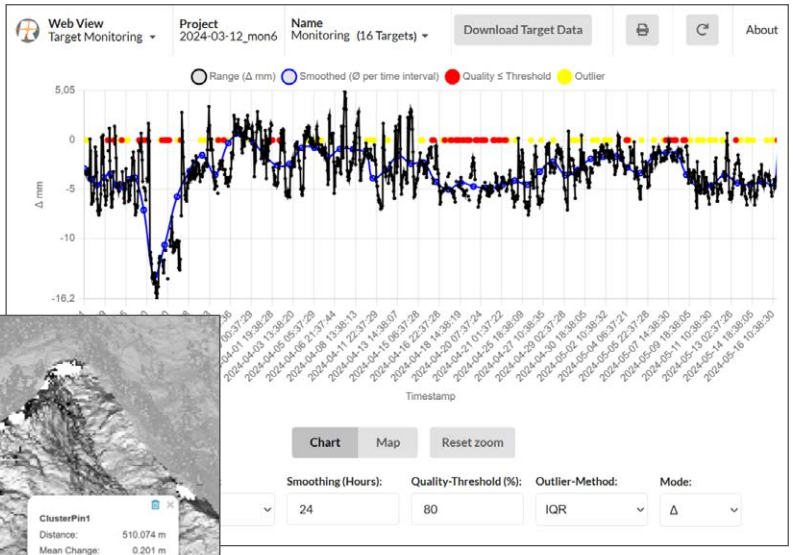


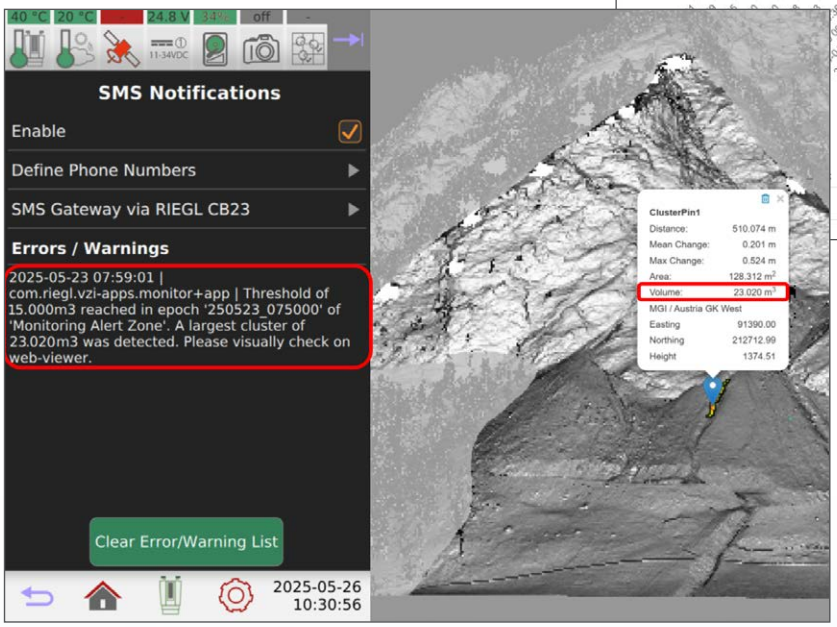


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Prism/Target Monitoring

In addition to the advantages of full area monitoring the scanner can also be operated like a robotic total station.
Precise tracking of targets provides trend diagrams of absolute movement and speed of movement.
Outliers and low-quality measurements can be suppressed. Smoothing over variable time intervals is supported.



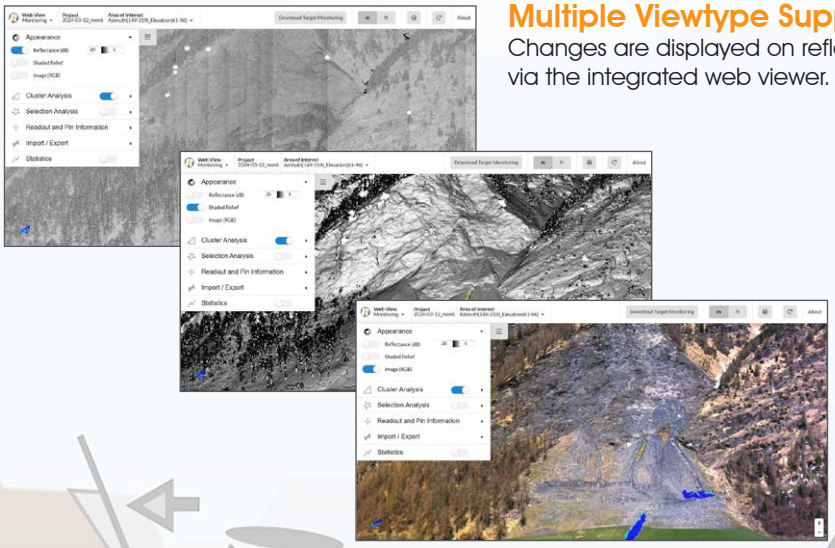


Automated Alerts

Real-time notifications on reaching critical thresholds are provided. If required, the threshold values and comparison settings can be adjusted directly on the scanner.

Multiple Viewtype Support

Changes are displayed on reflectance/shaded relief/RGB panorama images via the integrated web viewer.



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The *RIEGL* Monitor+ App is built for the needs of modern, data-driven operations:

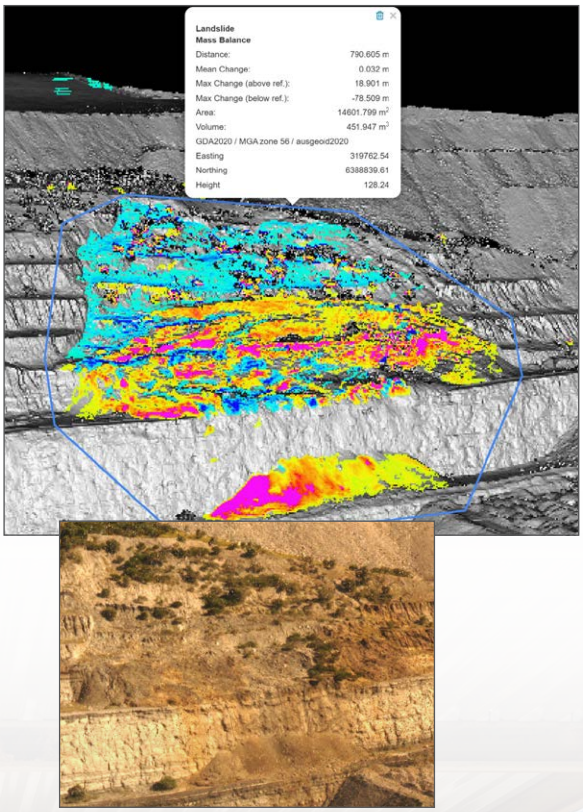
runs directly on VZ-i series scanners
– no need for external computers or manual post-processing

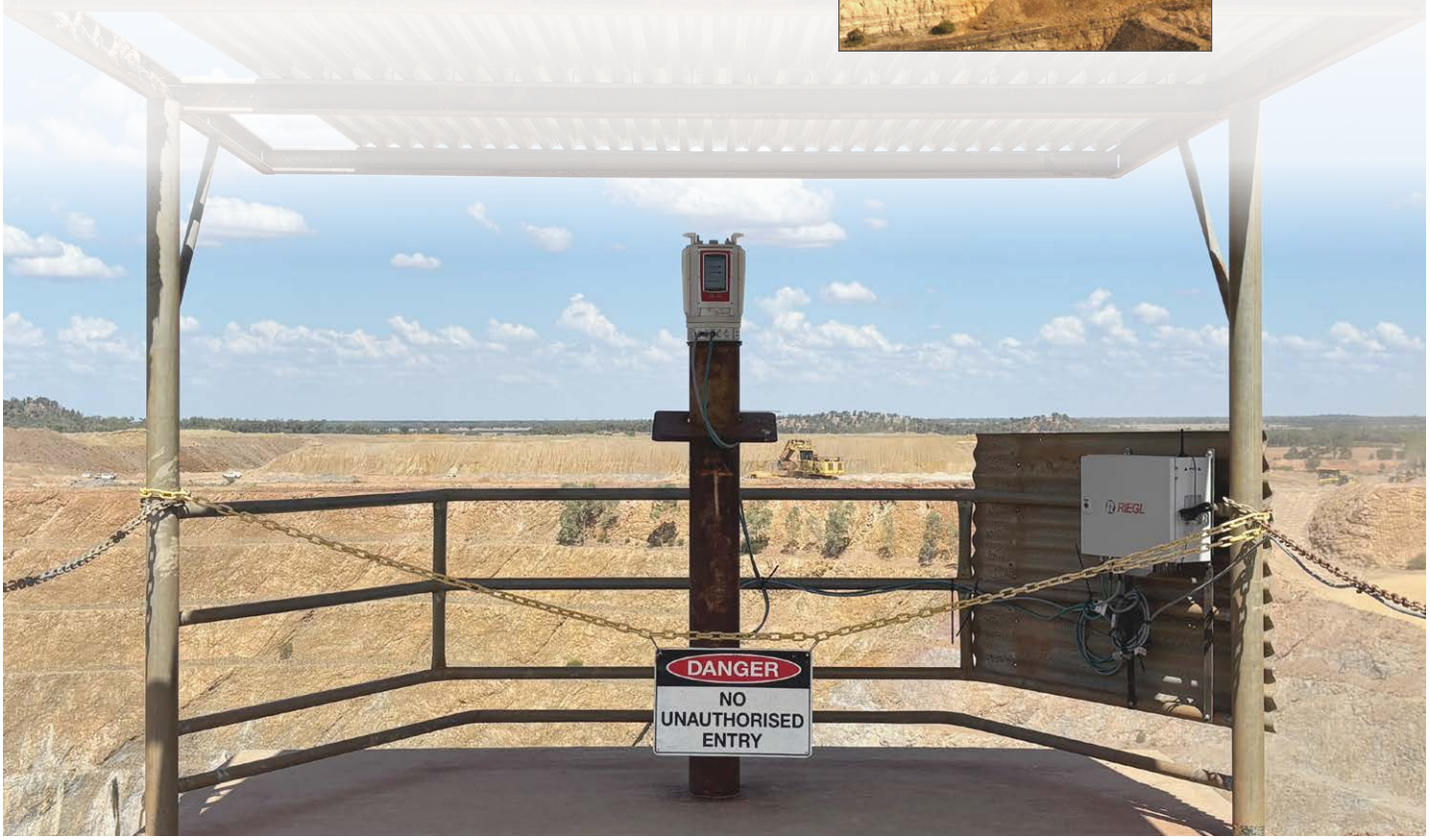
runs on *RIEGL* CB23 communication box
– allows to utilize any older *RIEGL* VZ-scanner

results available via any web browser
– fully remote, secure access from control centers or mobile devices

ready for integration
– triggers notifications, offers results via simple csv- and png-files, synchronizes ongoing data with local or cloud infrastructure

24/7 operation
– in combination with *RIEGL* CB23 communication box; even in remote or off-grid conditions (LTE, Wi-Fi, Starlink)





Contact us

www.riegl.com

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