

GeoLidar

AN AUTOMATED SOLUTION FOR LANDSLIDE AND SUBSIDENCE MONITORING.



GeoLidar uses lidar combined with artificial intelligence to reveal ground movements to millimetre-scale precision.

A real-time state-of-the-art technology that also has the capability to remove “noise” data from the scene

Automated Deformation Monitoring

- SAFE
- ACCURATE
- TOUGH
- REMOTE ACCESS

Our software

GeoLidar software enables the visualisation of data into an intuitive 3D map of the area. An adjustable heatmap highlights changes in movement over time, making it easy to analyse land subsidence at a glance.

Geotechnical engineers can calculate average movement over time quickly, allowing for improved risk assessments.

Based in the cloud, Geobotica software can be accessed from any device at all time.



Lidar Mapping

High-speed scanning creates 3D maps of the area.



Software Insights

Intuitive software interface.



Smart Traffic Removal

Its AI algorithms screen out noise to provide a clear view of the ground surface.



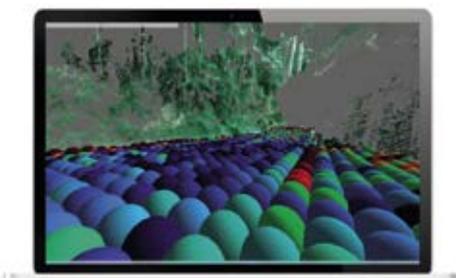
Tough Hardware

For 24/7 monitoring in all conditions.



Strong Connectivity

In-built WiFi and 4G secures data to the cloud.



AN AUTOMATED SOLUTION FOR MINING.

Automatic Stockpile Volume Measurement

GeoLidar delivers real-time stockpile monitoring for mining, quarries and bulk commodities, automating a difficult task and delivering high-value data giving better production insights.

The system runs in near real-time, tracking stock volumes around the clock to uncover trends and information about production rates. The data can be coupled with inflow rates, to give a real-time stock balance of inflows, stock balance and calculated outflows.



Driven by smart algorithms

The system synchronises several GeoLidar scanners permanently installed around a stockpile. It automatically merges and automatically joins their data into one point cloud. Smart algorithms then extract any machinery or equipment from the scene, and calculates the volume of the stockpile at that moment in time.



Connectivity

GeoLidar is state-of-the-art technology. The solution runs on WiFi and 4G to stream data to the cloud where it can be viewed, analysed and downloaded to any connected device.



Built Tough

GeoLidar is built and tested for some of the toughest environments, from the deserts of Mexico, to sub-zero Canadian winters, to the humidity and heat of tropical Australia. The system is very low power and self-sufficient, running either on solar power, or where solar is not available it requires a single battery swap every 3 weeks.



Safety & Productivity

GeoLidar is state-of-the-art technology. The solution runs autonomously with GeoLidar installed for stockpile monitoring there is no need to send surveyors out for stockpile reconciliation. This removes your team members from interacting with heavy machinery and hazardous work sites, while it also frees up a many hours – or even a day's work – in the field and at the desk to calculate stockpile volumes.

