

Versatile solution for monitoring risk



Monitoring and risk management solution

Maptek[™] Sentry is an intuitive visualisation and monitoring analysis tool for better understanding surface stability in mining and engineering environments.

Maptek™ Sentry combines a Maptek™ I-Site™ laser scanner with sophisticated software to monitor and analyse movement over time.

Sentry is available as a fully transportable monitoring system deployed in a custom built trailer. It offers a power and communications module, cellular and wifi networking, a dedicated stable bollard for an I-Site laser scanner, and Sentry software.

Sentry is quick and simple to set up and operate, allowing site personnel to capture and analyse accurate 3D data to avoid incidents which have the potential to interrupt operations.

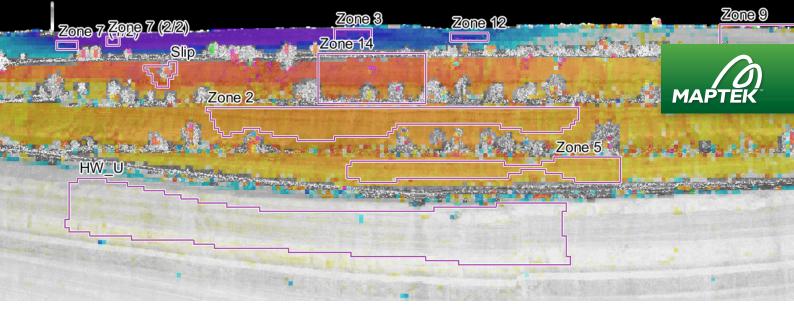
Identify movement - Generate and animate zones to show movement over time. Intuitive visualisation helps identify trends. Integrated smoothing tools reveal rates of movement as fine as 1mm per day.

Analyse failures - Analyse the mechanics of wall failures with greater fidelity than other systems. Capture and maintain a continuous monitoring history.

Analyse rock falls - Record rockfalls and easily view the points of origin and landing. Export data to I-Site Studio for further analysis including volume calculation. Use this information to update rockfall databases for reducing risk in the vicinity of highwall toes.

Versatile system - Use I-Site laser scanners for all survey and monitoring tasks. Periodic, widearea monitoring is useful for determining zones to watch more closely. Continuous monitoring where conditions pose the greatest risk provides real-time accurate data to guide safety programs.





The Sentry difference

Risk management: Monitor multiple zones of concern within a single scene and notify movement outside of set tolerances.

High impact: Better visualisation and understanding of failure mechanisms leads to safer, more productive operations.

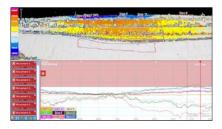
Mining-dedicated: Sentry is designed to operate reliably and continuously in rugged mining environments.

Site safety: Self-contained, autonomous operation is a safer alternative to prism monitoring on highwalls and slopes.

Analysis: Use previous data to create timelines to improve understanding of operational structures and their behaviour.

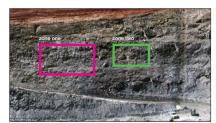
Versatility: Sentry operates in low light and underground for periodic or real-time convergence monitoring.

Flexibility: Use the same survey-grade data for survey applications and geotechnical analysis in I-Site Studio.



Data interrogation

- 3D digital terrain model (DTM)
- 3D imagery overlay with heatmap
- Animate zones to show morphology of terrain changes
- Spatial averaging within a single scan improves sensitivity
- Intuitive algorithms help reduce scan noise
- Raw laser scan data available for other applications

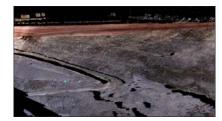


Notifications

- Report on multiple zones within a scene
- Report on displacement, velocity or inverse velocity
- Automatic email notifications

Analysis graphs

- Create graphs based on individual preferences
- Graphs report on displacement, velocity, inverse velocity and weather conditions



Further analysis

- Use survey grade data to record rockfalls, including points of origin and landing
- Use data to update rockfall databases and mark out highwall toe exclusion zones
- Conduct geological mapping in I-Site Studio
- Seamlessly export 3D laser scan data for kinematic analysis

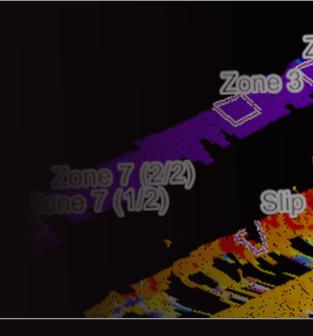
Sentry is compatible with Maptek I-Site XR3, LR3, SR3, 8820 and 8200ER/SR laser scanners.



Industry Leading Global Solutions

Maptek is the leading global provider of innovative software, hardware and services for the mining industry. More than 2000 customers in 75 countries rely on Maptek.

Maptek mining technology can be applied throughout the entire mining life cycle. Our solutions help reduce operating costs and improve performance, productivity and profitability. Maptek provides expert consulting, training and support services to ensure you get the most from your investment in our products.



BRAZIL +55 31 3224 4888 **AUSTRALIA CANADA ADELAIDE** +61 8 8338 9222 MONTRÉAL +1 514 700 7203 **BRISBANE** +61 7 3316 2800 +61 8 6211 0000 **VANCOUVER** +1 604 299 7613 PERTH **CHILE** +56 32 269 0683 **SYDNEY** +61 2 9957 5554 **MEXICO** +52 55 5250 8028 **PERU** +51 1 476 0077 **SOUTH AFRICA** +27 11 750 9660 solutions@maptek.com +44 131 225 8447 UK www.maptek.com

+1 303 763 4919

USA



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