

SIROVISION UNDERGROUND

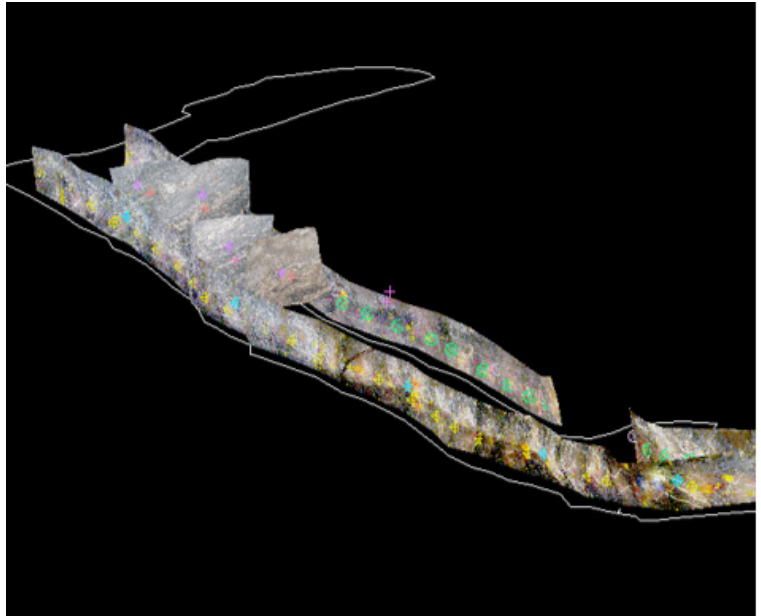
PHOTOGRAMMETRY FOR STRUCTURAL MAPPING

CAPTURE GEOREFERENCED 3D HEADINGS IN LESS THAN 5 MINUTES WITHOUT SURVEY SUPPORT

Datamine's innovative new laser survey system makes use of existing alignment lasers to accurately georeference 3D images with minimum disruption to the mining cycle.

KEY FEATURES

- Eliminates the need for survey support
- 1 person operation
- In and out of each heading in less than 5 minutes
- Utilizes already installed alignment lasers
- Produces a spatial accuracy <5 cms of traditional theodolite survey
- Produces high resolution 3D images suitable for geotechnical and geological mapping and analysis purposes



WHO USES SIROVISION UNDERGROUND?

Geologists

For mapping of lithological boundaries, identification of mineralogy and ore body volume calculations.

Mining Engineers

Assists in blast design and fragmentation analysis; calculating over/underbreak volumes and QA for contract supervision.

Geotechnical Engineers

For structural modelling with instant dip angle and dip direction results; automated wedge and block detection with mass, volume and sliding vector data; assisting in fracture frequency

WHY USE THE SIROVISION STEREO CAMERA?

Designed for purpose: The Sirovision Stereo Camera is unique in that it enables the capture of stereo photographs of underground lithology with one press of a button.

Speed: A single heading can be captured in less than 5 minutes causing minimal disruption to the mining cycle.

Easy to Use: Requires only two days training for technical staff.

Improves Safety: Minimal “at face” time required to capture 3D digital record of the rock mass. The whole 3D heading can be mapped and analysed in the office.

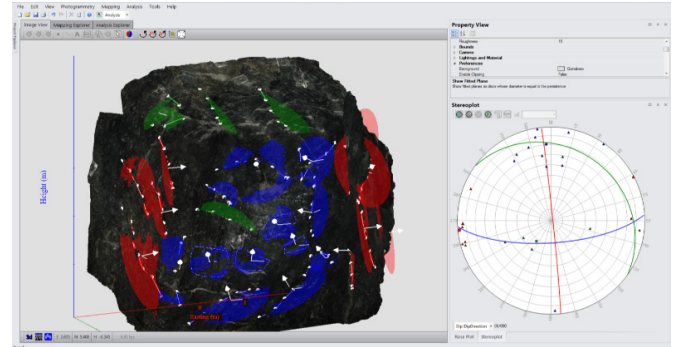
BOOK A DEMO

To book a free demo of Sirovision, contact your local Datamine office.

ACCURACY

Spatial Accuracy: Typically within 5cms of theodolite survey.

Mapping Accuracy: Within 0.3 degrees of theodolite survey.



SOFTWARE FEATURES

- Generates accurate and continuous 3D images of underground headings as they are worked
- Tools to digitally map structure directly on to the 3D surface producing immediate geotechnical characteristics.
- Visualise discontinuity orientation data using spherical projections, rose plots and statistical analysis tools alongside their real world physical characteristics such as persistence and location in 3D space.
- The **Slope Stability Analysis** tool provides automated detection of unstable wedges and blocks based on rock density, pore pressure, cohesion and friction data.
- The **Mineral Classification** tool automatically maps the surface area m² of selected ore and mineral bodies.

GLOBAL OFFICES

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