

I-Site 8800 Scanning System Solutions for Mining

The I-Site 8800 system combines fast, user specific post-processing software with the extra long range I-Site 8800 laser scanner.

The system tools deliver the perfect solution for applications in large open pits, stockpiles, civil earthworks, terrain and geological mapping.

ADVANTAGES

- Solution-based for rapid, efficient data capture through to processing stage
- Survey-friendly setup
- Vehicle mount system provides safety and time benefits
- Rail bracket option for scanning cone stockpiles from conveyors
- Dedicated technical support



Application: Large Open Pit

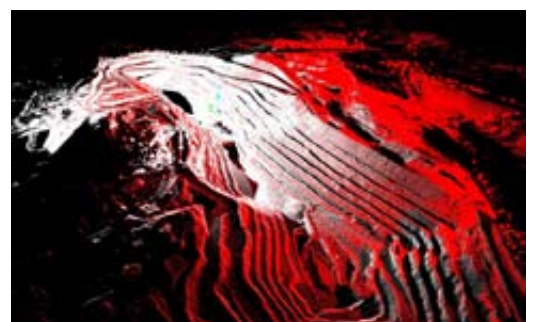
From one setup the I-Site 8800 can easily acquire over 1.3 million fully surveyed (georeferenced) points in only 5 minutes. Surveyors recognise the usefulness of the motorised backsight on the I-Site 8800, which allows a quick setup and backsight to instantly locate scan data.

Acquiring scans from both a tripod setup and the vehicle mount system lessens the need to access the pit floor where blast rigs, excavators and dump trucks are working.

In this example, in less than 90 minutes, a 2000 m by 1500 m pit and waste dump was scanned with 14 setups, and the raw data was taken to a final model.

I-Site Studio software that accompanies the system provides specific mining and topographic tools to efficiently produce results. These tools include automatic toe and crest extraction, instant 3D modelling options, contours, section and CAD extraction.

Data acquired using the I-Site 8800 scanner. Vehicle mount data is shown in red, tripod scan data in white.

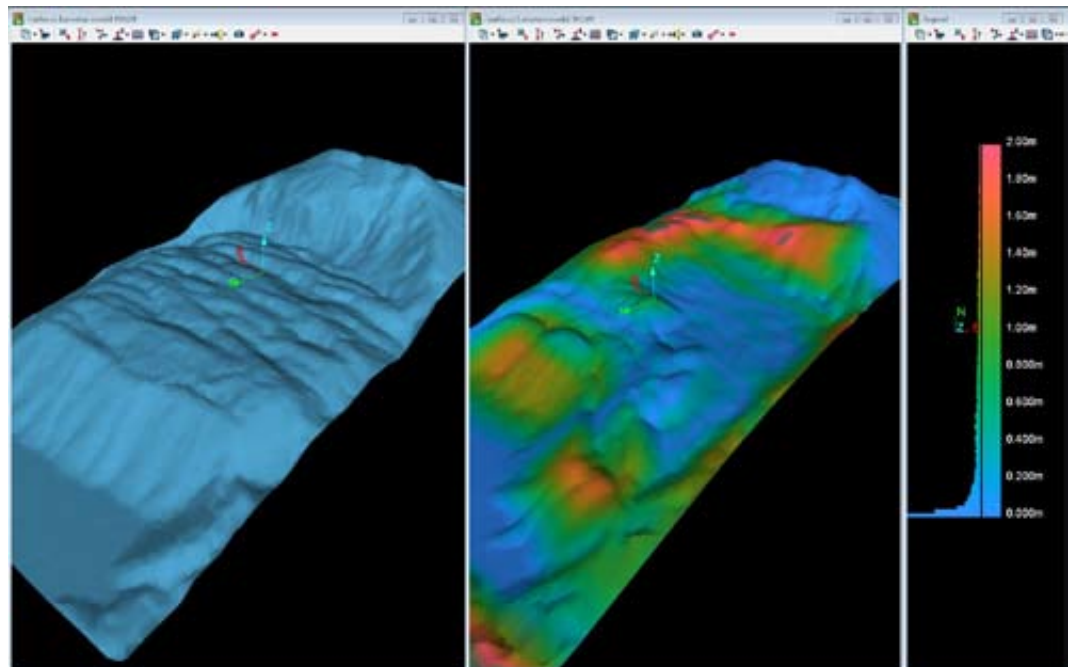


I-Site 8800 Scanning Features

- Range of up to 2000 metres
- Pre-defined scanning resolution
- Improved hand held controller
- 70 megapixel panoramic lens

Advantages of the I-Site 8800

- Super long range
- Latest premium scanner technology
- Industrial ergonomic design
- Includes I-Site Studio software
- Image and scan data captured simultaneously



Comparison showing area of change from one month to another

Application: Indoor Stockpile

Knowing the importance of safety, the surveyor wants to minimise walking over broken ground or stockpiles. Using the I-Site 8800 ensures high quality data which means that results can be finalised without needing to return to an unsafe area.

For this indoor stockpile, 6 scans within the shed acquired adequate data for volumetric comparison. Using un-surveyed scans, the system is able to quickly register and validate the data to ensure a quality model.

The I-Site 8800 is a survey-friendly acquisition system that allows users to quickly and safely measure both indoor and outside stockpiles.

I-Site Studio software is used for all stages of the process, from field to final model, to volumetric comparison and analysis on previous month models.

The images show the difference from one month to another. This allows quick visual identification of areas of change.

