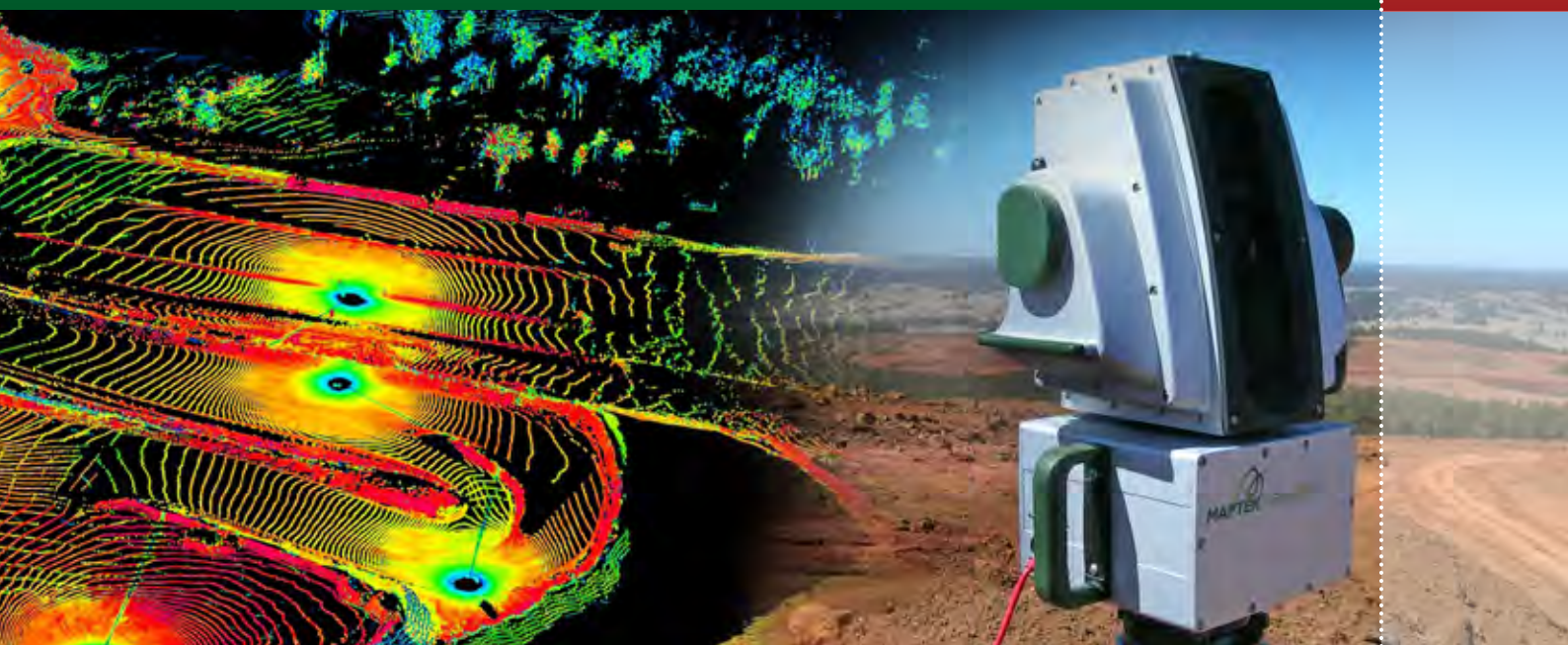




# MAPTEK™ I-Site™ 8810



## 3D Laser Scanner

Fast, Portable, Accurate

Extra long range laser scanner combined with  
a high resolution digital panoramic camera



# MAPTEK™ I-Site™ 8810

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## INTRODUCING THE MAPTEK I-SITE 8810 LASER SCANNER.

From Pit to Mine Model in under an hour!  
The Maptek I-Site 8810 Laser Scanner  
is the next generation of scanning hardware,  
delivering increased productivity and versatility.  
Maptek has a strong history of developing  
I-Site laser scanning solutions, matching survey  
workflows for applications in the mining,  
quarry, civil and engineering industries.





## The Maptek I-Site 8810

**Long range laser scanning and high resolution panoramic, digital imaging are combined with user-friendly features in a streamlined, premium survey package.**

Maptek software has been used to accurately model orebodies and design mines for 30 years. In the last 10 years, this expertise has been extended to develop world class mine survey tools.

The I-Site 8810 laser scanner can quickly survey stockpiles, seamlessly transfer the data into a processing engine and deliver accurate, auditable volumes in under an hour. This can only be done with a fully integrated system.

Precise, intuitive user controls allow the I-Site 8810 scanner to be set up and operated easily in various conditions.

High resolution panoramic colour data is acquired automatically with all scans by the integrated camera.

Wirelessly connected tablet PC control allows users to accurately and easily define scan parameters while integrating scan acquisition with survey control and other scan data.

The seamless data processing capability of Maptek I-Site Studio software ensures that the I-Site 8810 system will become the first choice for all long range scanning applications.

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### INTEGRATED TECHNOLOGY

The I-Site 8810 scanner has all the sensor technologies necessary for survey tasks. These are integrated into a single ruggedised package, designed for the harsh mining environment.

High resolution, panoramic digital camera, long range precision laser rangefinder, motorised alignment telescope and laser pointer all cover the same wide field of view.

A survey grade telescope is used for backsighting. Once set, the position is automatically registered and remembered in the system. A 'return to backsight' button orients the scanner to the correct starting position when a scan is completed.

Control coordinates can be stored and combined with tilt compensation data to enable all scan data to be located in the site coordinate system upon scan acquisition.

### WORKFLOW BENEFITS

Built-in compass GPS enables quick reference positioning for fast scan registration.

Only two known control points are required to set the scanner up - one at the scanner location and the other anywhere that is visible by the telescope.

Control on each degree of freedom is independent, reducing the likelihood of errors and providing total confidence that data is recorded properly in the field.

The streamlined setup and scan preparation, and improved scanning speed with the I-Site 8810 makes the entire survey process faster.

### EFFICIENCY

This process, unique to Maptek's I-Site products is the fastest and most reliable method of acquiring scan data.

The outcome is less time spent in the field and safer operations.

Confidence in the reliability of the data is enhanced by the versatility of a system which can be applied to sites with little need for survey control infrastructure.

**WHEN SCANS ARE CAPTURED EACH SCAN POINT IS RECORDED WITH THE SCENE COLOUR. REAL 3D IMAGERY IS COLLECTED, NOT ARTIFICIALLY PAINTED ON THE SCENE.W**

# MAPTEK™ I-Site™ 8810

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THE MAPTEK I-SITE 8810 HAS BEEN  
DESIGNED TO MAKE MINE SURVEY  
SAFER, EASIER AND MORE EFFICIENT.





## ERGONOMIC DESIGN

Portability and ease of use are hallmarks of Maptek survey hardware. The I-Site 8810 has all the controls built in and is so light it can be carried single-handed.

Operating the I-Site 8810 is simplicity itself. Motorised controls for adjusting the telescope and focus make backsighting easier and more accurate.

The I-Site 8810 scanner comes with a ruggedised tablet PC I-Site controller that connects wirelessly with the scanner.

Scans are selected with the touch of a pen on the tablet, and minimal data entry is required.

Setup and control is intuitive and simple. Multiple scans can be set up and queued for maximum survey efficiency in the field.

All data is recorded onto the controller where it is immediately available for preview and evaluation in the field. No need to return to the office to check that blind spots have been covered. On board controls also allow 360 degree scans to be saved directly to the scanner USB port.



*Tablet PC handheld controller*

## DATA MANAGEMENT

Once scans have been acquired, the collected point cloud data must be converted into useful information. This allows pit models, material volumes and other deliverables to be extracted for decision making across an operation.

Maptek I-Site Studio software provides the tools to filter, process and analyse survey data with speed and accuracy, making the I-Site 8810 system the ultimate survey solution. Data is simply transferred from the scanner controller to a PC via a USB memory stick.

Transforming a point cloud into a useful 3D model in less than an hour delivers the solution surveyors need for improving efficiency and increasing productivity. Data processing and analysis options in I-Site Studio have been purpose-built to guide and streamline the survey workflow for mining applications.

Accurate and reliable information is exported in multiple formats for easy assimilation into other mine modelling software and reports.

Registering multiple scans is easy with I-Site Studio. Surface, point and global registration tools can quickly accomplish what would take hours of manual work, and with unparalleled accuracy.

Once scans are registered, surfaces can be generated with the click of a button. Reference data can be imported and compared, and a datum established.

Now it is a simple step to generate up-to-date pit models and accurate positions of toes and crests, or calculate material volumes from stockpiles or blasts.

A new geotechnical module enables fast dip and strike, rose diagrams to be readily extracted by geological engineers.

## PERFORMANCE

The performance of the I-Site 8810 is outstanding. It allows users to reliably capture data at extra long range while preserving data clarity, accuracy and detail.

**END-OF-MONTH SURVEYS, TOE AND CREST EXTRACTION, UPDATING MINE MODELS, CALCULATING STOCKPILE VOLUMES AND HIGHWALL MAPPING ARE HANDLED WITH EASE.**



# MAPTEK™ I-Site™ Vehicle System

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Maptek has stayed at the forefront of innovative mining technology for 30 years. Almost 20% of revenue is returned to product R&D. Maptek is committed to providing solutions across the entire mining value chain and remaining at the forefront of laser scanning technology.





## FLEXIBLE SITE SURVEY

### LASER SCANNER VEHICLE MOUNT FOR MOBILE SCANNING

Maptek has developed a new ruggedised, shock absorbing mount which attaches an I-Site 8810 scanner to existing site vehicles.

The mount can be left on the vehicle permanently, while the built-in 'quick-connect' power and LAN adapter, combined with quick release mechanism, allow the scanner to be easily removed for safe storage.

A built-in compass in conjunction with a positioning GPS permits fast scan registration.

A bigger pool of vehicles can be called on, and downtime is minimal when swapping between different vehicles on site.

Recent Australian trials have proven the flexibility and portability of the new system. Maptek technical staff arrived on site and installed roof racks *and* mount on regular site survey vehicles in around 30 minutes.

### TOP REASONS TO CONVERT TO MOBILE SCANNING

1. Coverage of larger areas in much less time
2. Improved line of sight over undulating ground
3. Safer site survey practices
4. Increased versatility ideal for limited survey crews

**'MAPTEK SAVED US 3 DAYS IN SCANNING THE PIT AND ROM PAD. WE WOULD NEVER HAVE BEEN ABLE TO ACCOMPLISH THIS WITHOUT THE I-SITE VEHICLE SYSTEM.'**

*Ric Lester, Surveying Superintendent  
Fortescue Metals Group*



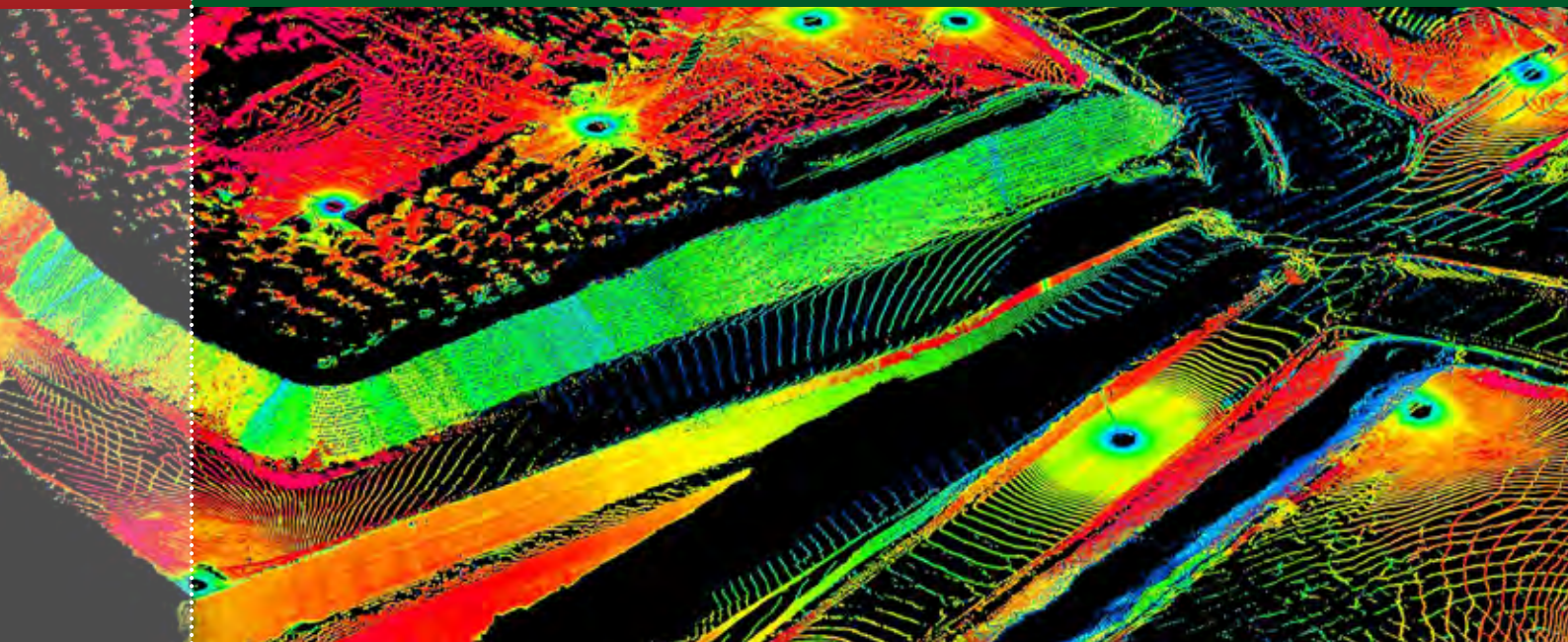


# MAPTEK™ I-Site™ 8810

## > INDUSTRY LEADING GLOBAL SOLUTIONS

Maptek is the leading global provider of innovative software, hardware and services for the mining industry. More than 1200 customers in 60 countries rely on Maptek.

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.



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