



# MAPTEK™ I-Site™ 8800



## 3D Laser Scanner

**FAST, PORTABLE, ACCURATE**

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

# INTRODUCING THE MAPTEK I-SITE 8800 LASER SCANNER

> From Pit to Mine Model in under an hour! The Maptek I-Site 8800 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.

 **MAPTEK** I-Site 8800





### > THE MAPTEK I-SITE 8800

Long range laser scanning and high resolution panoramic, digital imaging are combined with user-friendly features, resulting 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.

From this springboard Maptek has now released the I-Site 8800 laser scanner.

Here is an instrument that 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 8800 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.

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 8800 system will become the first choice for all long range scanning applications.

### > INTEGRATED TECHNOLOGY

The I-Site 8800 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

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 8800 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.

THE MAPTEK I-SITE 8800 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 8800 has all the controls built in and is so light it can be carried single-handed.

Operating the I-Site 8800 is simplicity itself. Motorised controls for adjusting the telescope and focus make backsighting easier and more accurate.

The I-Site 8800 scanner comes with a ruggedised tablet PC handheld controller (HHC). 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 HHC where it is immediately available for 3D preview and evaluation in the field. No need to return to the office to check that blind spots have been covered.



Tablet PC handheld controller

## > PERFORMANCE

The performance of the I-Site 8800 is outstanding. It will allow users to reliably capture data at extra long range while preserving data clarity, accuracy and detail.

## > 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 8800 system the ultimate survey solution.

Data is simply transferred from the scanner HHC 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 a breeze 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 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.

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

# MAPTEK I-SITE 8800 VEHICLE SYSTEM

> 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.

 *MAPTEK I-Site Vehicle System*





**> FLEXIBLE SITE SURVEY  
LASER SCANNER VEHICLE  
MOUNT FOR MOBILE SCANNING**

**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 has developed a new ruggedised, shock absorbing mount which attaches an I-Site 8800 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 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.

**'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.'**

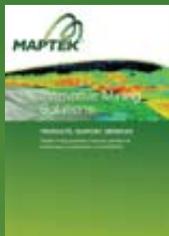
*Ric Lester, Surveying Superintendent  
Fortescue Metals Group*



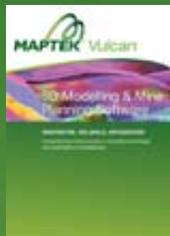
## > INDUSTRY-LEADING GLOBAL SOLUTIONS

Maptek is the leading global provider of innovative software, hardware and services for the mining industry, with 12 offices around the world.

With a foundation of 30 years of research and development, Maptek offers an extensive range of products backed by unparalleled customer service, training, consulting and support.



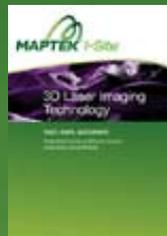
Maptek Overview



Vulcan Overview



MineSuite Overview



I-Site Overview



I-Site Studio



I-Site 4400LR



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