



MAPTEK™ I-Site™ Studio



3D Laser Imaging Software

POWERFUL, INNOVATIVE, EASY TO USE

Fast processing of scan data for accurate modelling
and volumetric analysis

Productive Surveying with Laser Scanners

Maptek I-Site™ Studio offers all the tools to successfully apply laser scanning to survey tasks within the mining and engineering industries. Our software improves efficiency, productivity and workflow in any operation.

I-Site Studio is the first laser scan processing product to take advantage of Windows™ 64 bit computing. Manage scanning projects with hundreds of scans and millions of points easily in one software session.

Large point datasets can be efficiently interrogated, modelled and manipulated on a desktop PC or field laptop. Transfer data between projects, DataEngines and networks using familiar techniques.

I-Site Studio integrates data from high performance laser scanning instruments with conventional survey and mapping. Use data from various scanners, and even combine data from different sources.

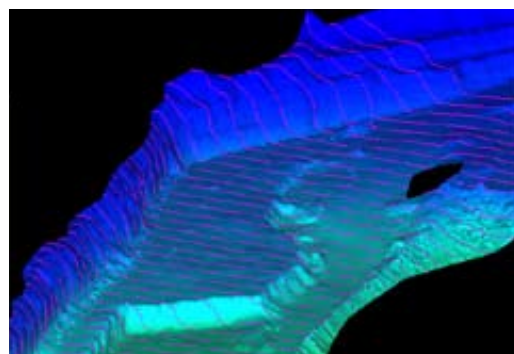
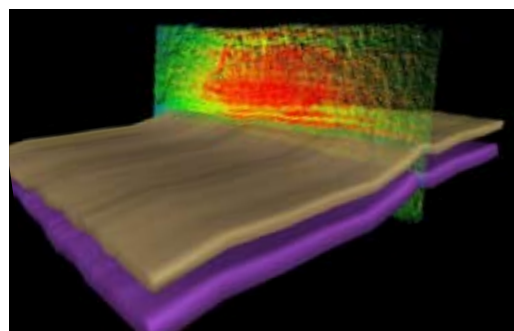
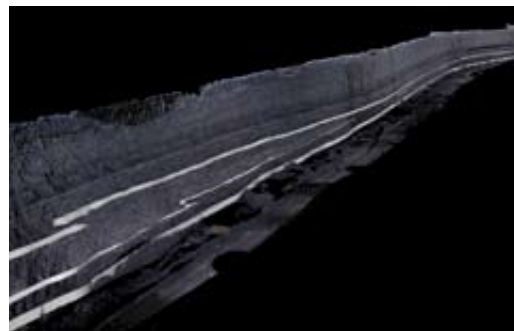
Survey station data can be accessed and accurately located against other scans and/or with real world coordinates using I-Site Studio's registration tools. A single step global registration process registers multiple scans and objects together.

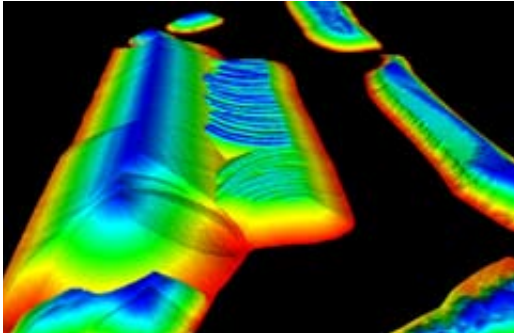
I-Site Studio helps you get maximum benefit from laser scan data. A powerful 3D graphics interface, colour and intensity data display, and easy to use Windows™ style data browser in a single software package.

Data Management

I-Site Studio's familiar Windows™ style user interface allows you to manage scanning hardware and data processing with ease. A visual browser providing access into the project DataEngine allows you complete freedom to organise your data.

- Multiple Document Interface style of operation
- Windows™ style explorer to copy, paste, delete and move data, undo and redo on selected data
- Independent 3D view windows
- Powerful multi-data transfer between projects, DataEngines and networks
- High resolution screen capture not limited by screen display
- Drag and drop between browsers, views, dialog boxes

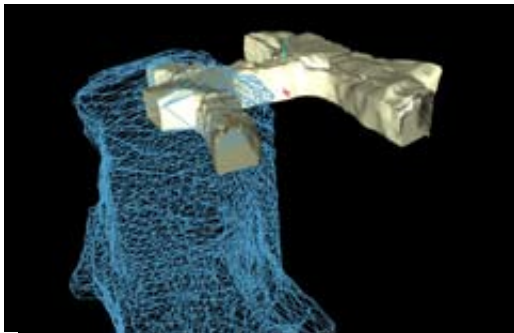




Mining Tools

I-Site Studio is an intuitive point cloud processing package. Designed for mining and other surveying applications, it has a host of features and tools to quickly turn detailed datasets into easily understandable results.

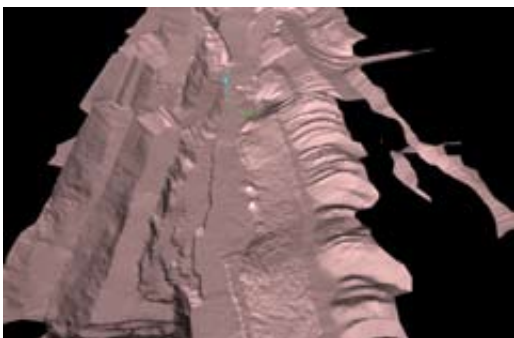
- Automatic toe and crest detection in open pits
- Update of open pit models by integrating new selected scan data
- Global registration tool to streamline use with vehicle mount system
- Labelling of elevations on generated contours
- Extensive volume calculations: surface, solid, differential
- Open pit and quarry survey tools
- Bucket, shovel and dump truck volumes
- Mobile scanning solution tools



Modelling

I-Site Studio streamlines mapping and modelling of infrastructure. Models can be easily exported as CAD wireframe, string files or solid surfaces.

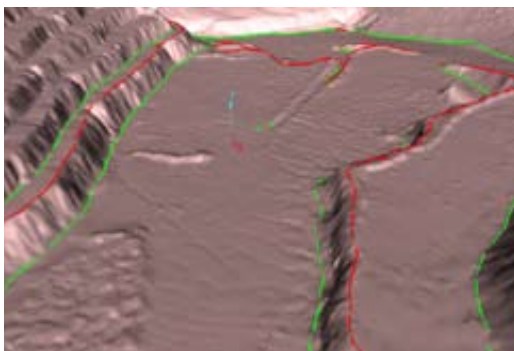
- Generate CAD drawings, as-built strings and 3D models
- Colour surfaces based on 3D distances to other surfaces
- Create underground tunnel and void models
- Comprehensive 3D modelling for retaining the true shape of undercuts



CAD Tools

I-Site Studio uses simple geometric shapes such as lines and polygons as viewing aids and to provide boundaries for data reduction. Working directly in the visualisation environment allows geometry to be drawn on the scans and views to be changed interactively during editing.

- Design points, lines and polygons; move, insert or delete points
- Mirror surfaces, fit and extrude standard geometric shapes
- Extract selected spatial data as individual points or as best fit planes through scan sections
- Streamline production of detailed 3D line drawings from registered scans with automatic edge detection
- Annotate models and survey data with text
- Trace along edges in scans and surfaces with 'Smart Line' tool
- Create closed polygons for tunnelling or void modelling with 'Loop Wrap' tool



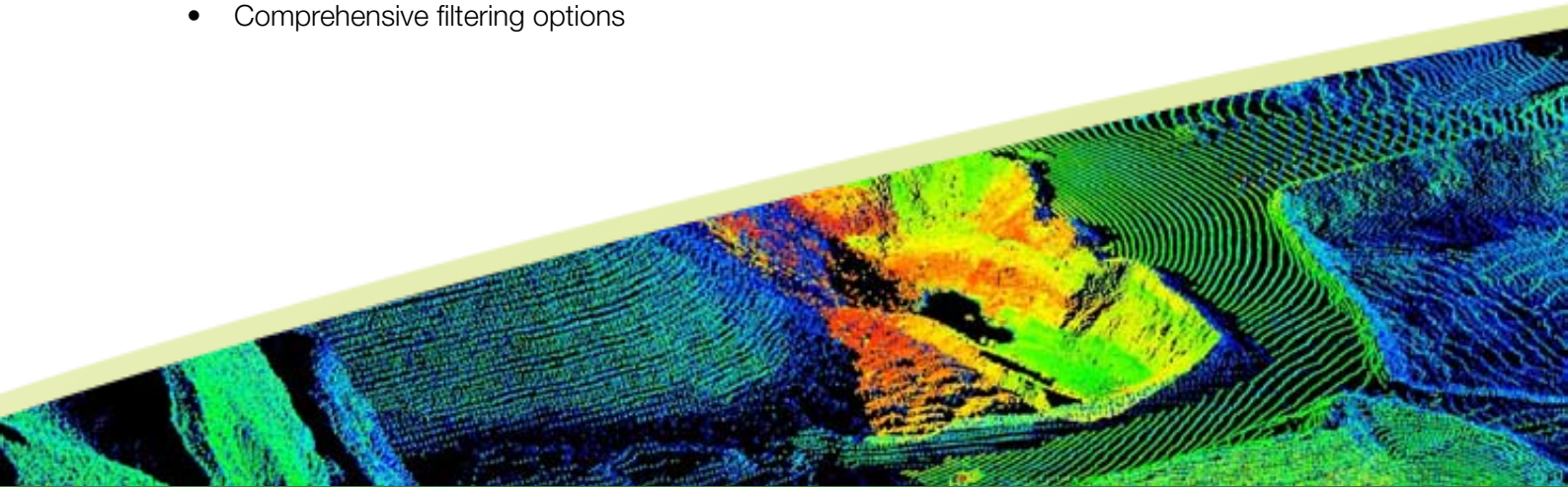
Contours

I-Site Studio allows fast generation and export of contours and sections.

- Automatically determine surface high / low points
- Create major and minor contours
- Name and colour contours
- Export contours as DXF, DXB or DWG strings

Maptek I-Site Studio

- International language support
- Powerful software registration tools
- Import / export various file formats
- Full texture render of megapixel photos from 8800 scanners
- Text creation and editing
- Reliable solid and surface volumes
- Streamlined contour creation
- Geometric shape fitting tools
- Smart triangulation routines
- Comprehensive filtering options



Maptek Overview



Vulcan Overview



MineSuite Overview



I-Site Overview



I-Site 8800



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