



Specialists in providing a complete range of professional surveying services to the construction industry and allied professionals



Laser Scanning

Madigan Surveying has purchased one of the new generation laser scanners, the Leica ScanStation C10. The C10 has the capacity to measure and record at the rate of 50,000 points per second and perform a full dome scan for the complete 360 degrees.

It is now possible to view and use point clouds in Revit, Autocad and Microstation.

What is laser scanning?

3D Laser Scanning is used to define the shapes of objects, buildings or landscapes, and involves the creation of “point clouds” of data for the definition of the surfaces under inspection.

The scanners measure the fine details of complex shapes and geometric surfaces which require massive amounts of data for their accurate description, and where the use of conventional measurement methods would be impractical.

Multiple scans may be required for the adequate definition of the area/object under survey: these scans are then registered and merged into a single three-dimensional representation of the area and post-processed within various software packages.

Examples

[Visit our website for example videos](#)

These flythrough models examples show road surveys, train station scans, building models, steel asbuilt models.

[Visit our website for example 3d model images](#)

These screen capture examples show building scans for creation of 3d model, façade elevations and internal pipework.



The software for processing the scans allows for the generation of data in formats to suit processing within the mainstream cad packages, viz. Autocad, Revit, Microstation.

Due to the increasing prevalence of the scan data, specific routines have been developed within the cad packages for accessing the scan data as reference files: this allows for the efficient operation of the cad software whilst accessing the extremely large scan data sets.

Madigan Surveying is an innovative company that has always been at the forefront in the adoption of new technology: the acquisition of the C10 allows the company to continue to provide clients with the most comprehensive options for servicing their requirements.

Please contact this office for further discussions, with either Graham McNamara, Stephen Brown or Christopher Pinn.

Applications for laser scanning

The C10 is ideally suited to application on the complete range of traditional survey tasks.

- Facade Mapping
- Topographic Surveys
- Asbuilt Engineering Structures
- Structural Steel Asbuilts
- Heritage buildings
- Plant and equipment
- Railway overheads, tunnels and bridges
- Major road intersections
- Earthworks
- Neighbourhood Character

Contact

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Services

Currently employing in excess of 32 staff, Madigan Surveying has the skills and expertise to undertake a broad range of services and have contributed to many of Melbourne's well known and prominent landmarks.