



Barry Satchell

ENGINEERS • SURVEYORS • PLANNERS

3D Laser Scanning and Photogrammetry

Barry Satchell are industry leaders in cutting-edge laser scanning and photogrammetry services.

Our team of surveyors have extensive experience delivering high quality data; we will transform how you view measurement.

Working with us, you will receive deliverables that are unmatched in accuracy and detail, within a highly efficient and cost-effective time-frame, allowing you access to valuable insights for faster decision making for your project.



Benefits



Accuracy



Efficiency



Reduced Cost



Safety



3D Laser Scanning

3D laser scanning utilises laser beams to capture accurate and detailed spatial data. The scanner emits beams in a sweeping motion to calculate spatial data for surfaces/objects in a specified space.

Millions of measurements are collected, generating a dense “point cloud”, representing the geometry of the scanned area or object.

We process this data, cleaning and reducing it by removing the unnecessary “noise”, then formatting to the required deliverable for your project.

Photogrammetry

Photogrammetry is the technique of capturing and overlapping high-definition photographs to construct a 3D representation of the environment.

Taken from multiple angles, the photographs are analysed to identify common points and their spatial relationships, then stitched together to create a highly detailed and accurate walk-through model. This model can be used for interactive measurement or analysis purposes.

Applications

- Architecture
- Construction
- Topographic Survey Alternative
- Structural Analysis and Design
- Historic Preservation
- Industrial Facilities
- BIM
- Stadiums and Theatres
- Building Modelling
- Building Condition Analysis

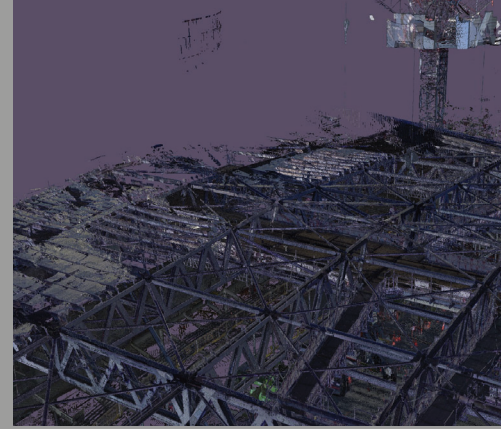
Deliverables

- Point Clouds
- 2D CAD Drawings
- 3D BIM Models
- DTM Ground Models
- Floor Flatness & Levelness Analysis
- Wall Plumb Analysis
- Volume Calculations
- Walk-through Models

Laser Scanning Projects

Sky City Convention Centre

We delivered a detailed and highly accurate 3D laser scan of the steel columns and beams, for a comprehensive analysis of the constructed steel.



Auckland Road Survey

Our team completed a detailed laser scan of the existing road and associated features, converting this into a DTM ground model and traditional survey plan, using specialised software.



Christchurch House

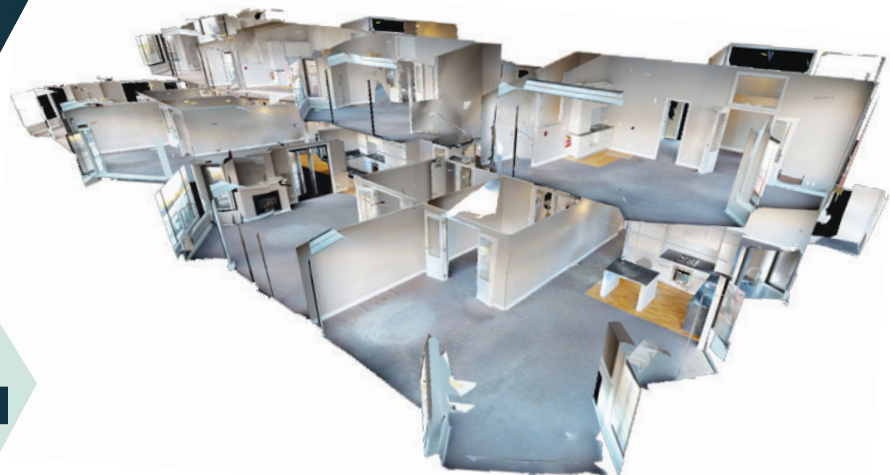
Requiring a detailed interior and exterior laser scan, the deliverables for this architecturally designed residential home were employed by the new architect to design a bespoke renovation.



Photogrammetry Project

Queenstown Apartments

An impressive photogrammetry survey, of the interior and exterior of a Queenstown Apartment complex. The information was used as a 3D twin, utilised to analyse and record the existing condition and assist with renovation design.



Contact Us Today

Experience the benefits of 3D technology

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