

3D Laser Scanning

What is Laser Scanning?

A scanner creates accurate three-dimensional images of real-world objects and existing conditions. It records millions of highly accurate, unique points by sweeping its beam over an area or object.

The scanners X,Y,Z measurements are recorded and displayed as a "point cloud" which can be viewed, measured and navigated as a 3D model providing incredible insight into any job.

Applications of Laser Scanning:

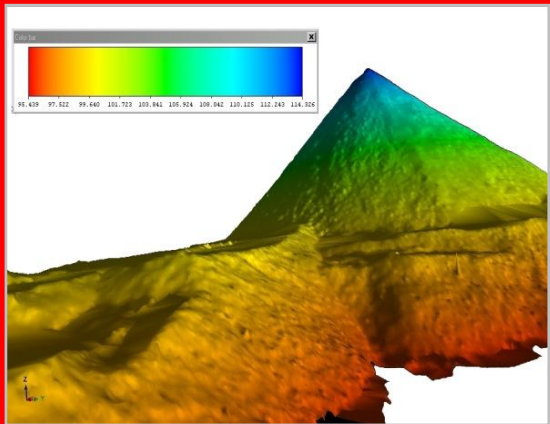
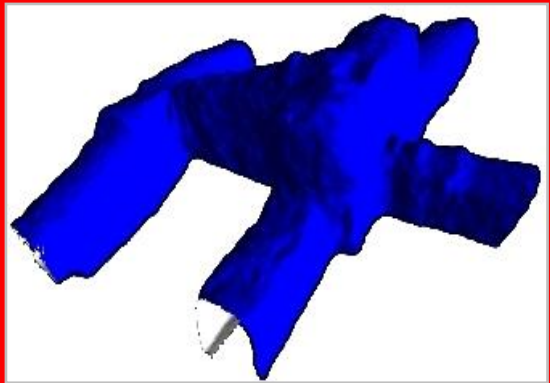
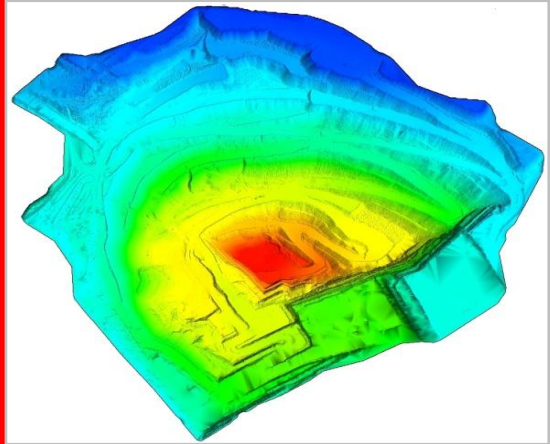
- Open-cut pits and stockpiles
- Monitoring Surveys (eg. Tailings Dams)
- Surveying roads and highways (particularly with active traffic)
- Pipeline and highway mapping
- As-built surveys
- Process plants
- Tunnel surveys
- Bridge as-built



Benefits of Scanning:

- High accuracy (up to 125,000 points per second)
- Provides more detail than traditional surveying methods
- Much safer than conventional methods on certain surveys (e.g. stockpiles, tall buildings, working at heights, road surveys)
- Surveys are completed quickly, therefore less downtime
- Data is delivered quickly

The Riegl VZ-1000 is a rugged and fully portable scanner designed for the rapid acquisition of high-quality three dimensional images even under high demanding environmental conditions, providing a unique and unrivalled combination of wide field-of-view, high maximum range, and fast data acquisition.



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