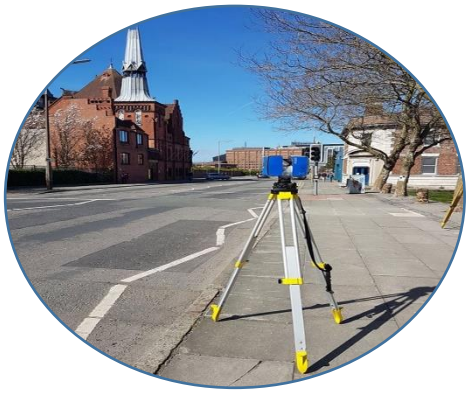
Industrial Application



Ryobi-G has a dedicated team of experts that are able to conduct as-built surveys for a variety of industrial applications based on point cloud data collected using 3D laser scanning (LiDAR) and digital (drone) photogrammetry.

Georeferenced point clouds contain all the information required to create 3D meshes or solids in an accurate scale, allowing production of 3D models cater for different purposes. Hence, using the point cloud data as a base, we are able to create custom build solutions that suits the needs of the customer.

Whether it is for planning, design, and managing industrial facilities, our team will work with you to provide solutions according to your unique requirements.

Why Us?

ACCURATE
We are capable of capturing detailed environments with millimetres accuracy.

FAST
Rest assured, our means of creating accurate, detailed 3d models are swift and efficient.

DETAILED
Our methods are thorough, and our equipment are precise. This ensures the highest of standards in capturing data and creating 3D models.

RYOBI GEOTECHNIQUE INTERNATIONAL PTE LTD

Co. Reg. No. (200500891W)

What Do We Offer?

Structural Modeling
Create 3D model of building's exterior

Interior Modelling
Develop 3D model of building's interior

Orthomosaic Mapping
Digital imaging of a large area

Registered Point Clouds
Provide accurate records of the 3D geometries of buildings and objects

Terrain Modelling
Create a 3d model that includes all major objects (buildings, roads, paths, vegetation etc.) found on-site

Construction Progress Monitoring
Visually record the progress of a construction site

Panoramic Tours
Build an interactive 3d space that people can travel through

Defect Assessment
Assessing the defects of large objects / structures that are unforeseen to the naked eye

What Fits Your Need?

The choice between drone photogrammetry,3D laser scanning (LiDAR) or combination of both depends heavily on the exact application. Operational factors (cost & complexity) and outputs needed must also be considered.

3D Laser Scanning

- Fast data acquisition
- ± 2 mm level of accuracy
- Best used for surveying narrow structures such as pipelines

Drone Photogrammetry

- Cover large area at lower cost
- 2-6 cm level of accuracy
- Best option for project that requires visual data

How Can Our Service Help You?

Safety

Take accurate measurements remotely without the need to physically go to site to take the measurement(s).

Monitor changes to the facility

I. Deformation (visible on the surface but hard to see to the naked eye)
II.Keep track of upgrades / maintenance (replacement of pipe sections

Planning of future upgrades

Help with the planning of future upgrades by having an accurate and updated layout of the facility that engineers can use.

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