

RYOBI GEOTECHNIQUE INTERNATIONAL PTE LTD

Co. Reg. No. (200500891W)

3D Laser Scanning

3D laser scanning is a powerful surveying technique that we at Ryobi-G use to help professionals like Engineers, Designers, Architects, Asset Managers etc. develop digital 3D models specific to their needs.

It is our goal to serve our customers in Singapore and beyond, helping to improve the quality of their work through the use of 3D models.

No matter the complexity, or accuracy required, our team of experts armed with the latest 3D laser scanners are capable of handling any type of environment / structure, providing the best solution that meets the needs of our clients.

So, whatever the application, our team of experts at Ryobi-G are ready and committed to providing the right 3D solutions for you.





Why Us?



ACCURATE

Precise measurements with an accuracy of up to + 2 mm*.



DETAILED

Our attention to detail and precise 3D laser scanners assures that our scans or not only accurate, but rich in detail



FAST

Being able to capture thousands of points in seconds, we are able to cover a large amount of surface area in a relatively short amount of time.

*results may vary





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A laser scanner is deployed on-site shooting millions of laser beams, covering the surface of an object / site with (laser) points.

The laser scanner records the position of each of these laser points relative to the scanner (and other parts of the site) in the form of x, y, z coordinates.

After collecting a large number of points (point cloud), the laser scanner begins to build a precise digital model of the space / site being scanned.

Once all the necessary point clouds are collected, the point cloud data is exported onto a PC to be calibrated before being processed.



Point cloud view of a heritage building captured using our static laser scanner

What Can The Service Be Used For?



Property Development

Capture measurement of structures/buildings from any size to create as-built models for BIM applications



Heritage

Provide highly accurate documentation to help the preservation of heritage site



Infrastructure

Provide detail measurements of complex structures such as bridges and tunnels



Industrial application

Help to optimize the operations of industrial plant such as refinery



3D Inspection

Compare design with as built, detecting clash, and eliminating the interference



Reverse engineering

Scan and analyse small parts to obtain 2D and 3D drawings