

3D LASER SCANNING

Confidence In Every Decision.



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WHY DO YOU NEED **3D SCANNING?**

Ryobi-G offers precision 3D scanning solutions, using state-of-the-art equipment, technology and processes to produce 3D scans of the highest quality needed to empower our clients with reliable data they can use with confidence.





Experts from all over the world have frequently reported that 3D laser scanning can reduce total project costs by 5-7 percent and project schedule by 10-12 percent on industrial projects.

Deecan Sanyo Chillachi A. (Research Analyst, Engineering and Construction)

Why Do You Need

3D Scanning?

02



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WHAT WE OFFER

Our 3D laser scanning (3DLS) capabilities extend to more than just data collection. We have the flexibility of formatting the data to meet the needs of the client. For instance, we are able to prepare the data sets in specific formats to help integrate it into their workflows - see below.





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03 | What We Offer

SCANNING WORKFLOWS

Ryobi-G practices industry standards using top of the line scanners to capture every detail as accurately as possible in order to provide our clients the best quality data. This can be broken down into 5 essential steps - see below.



Workflows

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INDUSTRIES WE SERVE

3D laser scanning is used in diverse fields ranging from construction and infrastructure to the entertainment industry. The most common industries that benefits from laser scanning are listed below:



CONSTRUCTION

3D laser scanning is a common tool that can be used in all phases of a construction project, particularly large and/or complex projects - where time (spent collecting data), consistency, and accuracy of data play a significant role in a project's timeline.



INDUSTRIAL, PROCESS & PLANT

3DLS data is ideal for design, construction, operations, retrofits, and renovations in complex structures such as refineries, processing plants, and production facilities.



Having 3D as-built models help designers and engineers to visualise and modify a design / space with accuracy - common practice found in many modern-day project workflows.

CAN'T FIND YOUR INDUSTRY? TALK TO US!



05 | Industries We Serve

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FEATURED PROJECTS

Ryobi-G has taken on a wide variety of 3D laser scanning projects across various industry. Whether they are big or small, simple or complex, we strive to offer the best possible solution(s) for any given task. Below are 6 unique projects that we have taken on, from scanning heritage buildings and laboratories, to mapping construction sites, processing plants etc.



Drop us a message if you want to find out more!



COMPANY PORTFOLIO

For over 20 years, Ryobi-G has been working with an wide range of clients from private companies to local (government) authorities. We have an extensive track record of delivering satisfaction to our clients. Here are some of the projects we've worked on over the years:

NO.	CLIENT	PROJECT DESCRIPTION
1.	Mott MacDonald	3D laser scanning and hi res imaging work for Tunnel Structures and Trackwork System.
2.	ShenZhen Metro	3D laser scanning and hi res imaging for assessement of tunnel profiles, railhead profiles and wall structures
3.	W'Ray Construction	3D laser scanning of interior features of heritage building for restoration work at Orchard Road.
4.	Sembcorp Architect & Engineering	Drone imaging for topographical information and visual inspections at Mandai West Camp.
5.	PUB WSN	3D laser scanning, drone imaging and 3D modelling of Mount Faber II Service Reservoir and Fort Canning Service Reservoir.
6.	PUB Catchment & Waterways	Supply and delivery of orthomosaic mapping of a construc- tion site for building contractors' use at Clementi HDB site.
7.	BASF Chemical Plant	3D laser scanning using TLS and drone imaging of entire chemical plant got as built and A&A design works.
8.	Mott MacDonald	3D laser scanning of C8379 bore tunnel for assessment of tunnel cross section profiles at Beach Road.
9.	Meinhardt Facade Technology	3D modelling and 2D orthomosaic (drone) of Alexandra Techno Park Tower A & B for facade inspection.
10.	Land Transport Authority	3D modelling of Recreational Facility for Western Singapore.
11.	NParks	Provision of ground based LiDAR services for the National Parks Board for a period of one year at Botanic Gardens.



COMPANY PORTFOLIO (CONT.)

NO.	CLIENT	PROJECT DESCRIPTION
12.	AEG	3D laser scan of 20ft container for NTU EMERL.
13	iPORT	3D laser scan of the office building for interior design and renovation work (3D laser scanning and virtual view).
14.	iPORT	3D laser scan of the apartment building for interior design and renovation work at West Coast Apartment.
15.	CAD Drafting Singapore	3D statics laser scanning at Givaudan Singapore Level 4.
16.	Willowglen	3D static laser scanning services for Water Reclamation Plant and Services Reservoir.
17.	iPORT	FARO laser scanner and Trimble Realworks USB dongle rental (1year).
18.	Shimizu	3D laser scanning for Jewel Basement 1 (Pre & Post Scanning).
19.	PEC	3D laser scanning for existing facility to fit new indoor plant for GSK project at Pioneer Sector 3.
20.	DSO National Laboratories	3D laser building survey and BIM modeling for existing CTRN facility at 11 Stockport Road, DSO Marina Hill premises.
21.	NHB	Using 3D reality capture technology to document heritage buildings for Sun Yat Sen Memorial Hall.



08 | Company Portfolio



REQUEST FOR FREE DEMO FROM US

You don't have to take our word for it, decide for yourself whether 3d laser scanning the best solution for you. Reach out and call us to get some first hand experience with a free in-person demo session!

GET IN TOUCH



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