

3D Laser Scanning

→ Providing Scanning Services Since 2007

WHEN TIME, SAFETY, AND ACCESS ARE A CONCERN - 3D LASER SCANNING IS THE ANSWER

3D laser scanning can be adapted and applied to many types of projects.

It is a fast and accurate way to capture the exact shape and size of buildings, structures, industrial sites, facilities, or land. Using a specialized scanner, it records millions of measurement points that can be used to create detailed 3D digital models, reports, maps, and spatial information about the real world. It's safe, non-intrusive, and helps you see every detail—so you can plan, design, and build with confidence.

THE PROCESS YOU CAN COUNT ON



DEFINE YOUR NEEDS

Determine what you need scanned, how detailed it should be, and how it fits into your existing plans or coordinate systems.



PLAN AND EXECUTE SURVEY

Set up survey control and complete field scanning based on the defined scope.



RELATE SCANS

Combine individual scans into a complete, cohesive dataset.



APPLY SURVEY CONTROL

Align the scan data accurately to real-world coordinates.



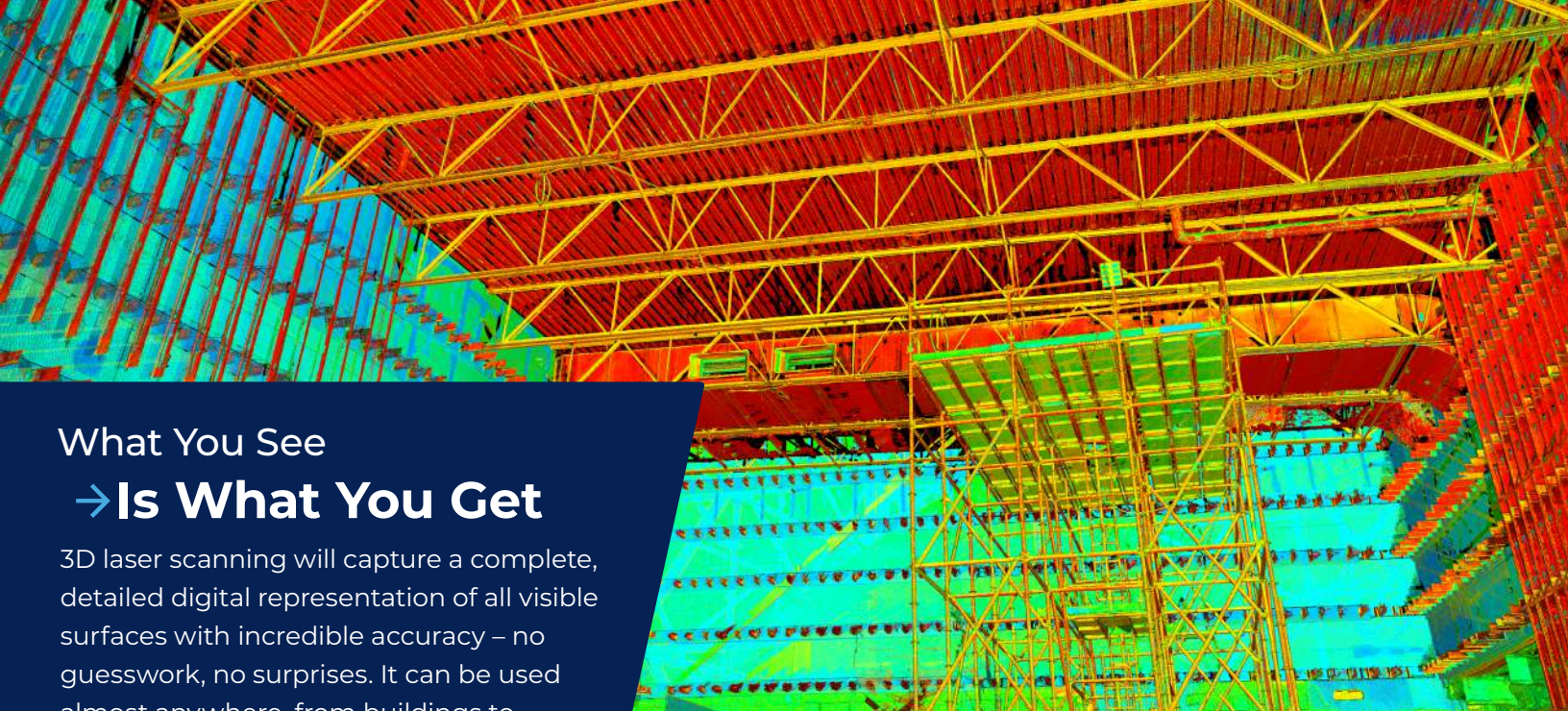
QUALITY CONTROL CHECK

Review and verify the accuracy, completeness, and quality of the data.



DATA DELIVERY

Provide the finalized files or models in the format you need.



What You See

→ Is What You Get

3D laser scanning will capture a complete, detailed digital representation of all visible surfaces with incredible accuracy – no guesswork, no surprises. It can be used almost anywhere, from buildings to remote sites, giving you a clear and reliable picture of your space.

- ✓ Commercial building renovations
- ✓ Industrial facility upgrades (oil & gas, utilities)
- ✓ Infrastructure projects (bridges, tunnels, roadways)
- ✓ Mining and quarry sites
- ✓ Urban planning and site development
- ✓ Historical preservation and documentation
- ✓ Interior fit-outs and tenant improvements
- ✓ Power plants and processing facilities
- ✓ Transportation hubs (airports, rail stations)
- ✓ Stadiums, arenas, and entertainment venues
- ✓ Manufacturing
- ✓ Detailed Site Surveys
- ✓ Floor slab topography and flatness reporting
- ✓ 3D Model or Building Information Model (BIM)

THE EXPERTS

→ YOU CAN RELY ON FROM START TO FINISH

We work with you to define your project needs, conduct safe and efficient data collection in the field, and deliver accurate, well-organized data in a format that's practical and easy to use.

INTERESTED IN 3D SCANNING?

→ LET'S TALK

+ 1.888.424.5512

+ www.challengegeomatics.com

+ sales@challengegeomatics.com



EDMONTON · CALGARY · FORT MCMURRAY
LANGLEY · WHITEHORSE · YELLOWKNIFE