



# 3D Laser Scanning Services

Marine — Industrial — Commercial

## Accurate Digital Capture for Vessels and Land-Based Projects

RCG provides professional 3D laser scanning services for marine and land-based projects, delivering fully registered point clouds of virtually any space. Our scanning capabilities support vessel compartments, machinery spaces, industrial facilities, commercial interiors, and outdoor project environments where reliable existing-condition data is critical. RCG can offer these services anywhere globally.

**100**  
METER RANGE

Vessel and Land-Based  
Indoor and Outdoor  
Project Support



Deliverables include  
registered point clouds

Surface meshes can be provided  
as an additional service

fully registered point cloud datasets can be provided to support engineering, design review, installation planning, retrofit work, and existing condition documentation.  
Surface meshes can be provided as an additional service.

## Advantages of 3D Laser Scanning

### Accuracy & Detail

High-density scan data captures complex field conditions with a high level of accuracy and detail, helping reduce manual measurement errors and project uncertainty.

### Reduced Rework

Reliable existing-condition data supports clash avoidance, better layout planning, and fewer surprises during fabrication, installation, and commissioning.

### Fast Documentation

Large or congested spaces can be documented quickly and efficiently, reducing repeat site visits and improving communication between field and engineering teams.



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## Service Capabilities

Our scanning services are suited for both marine and land-based applications. We can capture individual rooms, machinery spaces, complete work zones, exterior areas, and other project environments where reliable dimensional data is needed.

- Fully registered point cloud datasets for vessel spaces, industrial facilities, and commercial environments
- Scan data for indoor and outdoor land-based projects
- Existing condition documentation for retrofit, repair, modification, and expansion work
- Optional conversion of point clouds into surface mesh for 3D modeling software input
- Digital field data that supports design development, engineering review, and project planning

## Accuracy That Supports Better Decisions

Accurate scan data helps owners, engineers, and project managers confidently assess space constraints, identify interferences, verify existing conditions, and prepare for modifications before fabrication or installation begins. The result is improved planning, fewer surprises in the field, and better alignment between design intent and actual site conditions.

## Point Cloud Project Data

Representative point cloud imagery illustrates the level of spatial detail available for existing-condition review, planning, and 3D modeling workflows.

