

3D Laser Scanning

LiDAR (Light Detection and Ranging)

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Power and Process Services



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LiDAR, or Light Detection and Ranging, is a 3D laser scanning method for determining ranges by targeting an object and measuring the time for reflected light to return to the receiver. Similar to RADAR but operating within a different part of the electromagnetic spectrum, LiDAR uses a laser to cast light on the target, and then analyzes the reflection rather than the sound. LiDAR technology delivers high-accuracy, nearly gap-free detection – regardless of object movement or lighting conditions – making it well-suited for nonuniform surfaces, hazardous spaces, and confined areas.

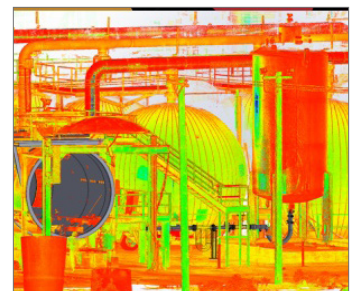
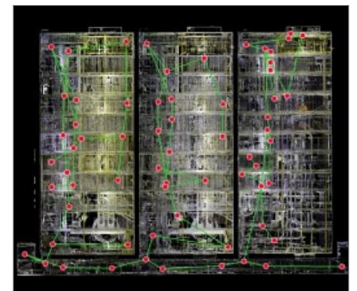
LiDAR scanning is accurate, reliable, and rapid, capturing up to 2,000,000 points per second in any light. Captured scans are accessible using a specialized data viewer platform with multiple export and content creation capabilities that support integration of data with existing platforms.

APPLICATIONS

- Project Planning
- As-Built Verifications
- Interference Detection
- Structural Health Monitoring
- Tracking Exact Project Progress
- Capturing Facility Images for Training and Indoctrination
- Report Generation
- Post-Processing and Import to CAD Interface

BENEFITS

- Simplify Workflow and Project Planning
- Reduce Time Spent in Field
- Reduce Exposure to Hazardous Settings
- Reduce Project Cost



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