



3D High Definition Laser Scanning

Karins and Associates' Survey Team takes pride in the services they provide by keeping up with the latest technology in survey equipment. Karins has evolved their practices in the survey field over the years by acquiring the latest equipment and training their staff of Professionals, office and field personnel alike, to assure the most accurate and efficient surveys possible. Karins continues to provide this accuracy and efficiency with our Digital Laser Scanner equipment. The Scanner is capable of providing digital quality asbuilt information at amazing speed and accuracy and can provide a wide array of final deliverables.

High-definition surveying is mostly used today in:

- Used to capture geometry of objects that are hard to reach
- Undersides of Bridges, Overpasses, Structures, Tunnels
- Commercial Development and Construction
- Infrastructure and transportation (roads, rail, airports, harbors, communications) Quality control
- Hardscape and Re-development
- Buildings, Facades, Columns, Ceilings, Domes
- Plant and Industrial
 - Oil and Gas Refineries, chemical plants, Pipe Racks
 - Power generation and distribution
 - Manufacturing and Processing
- Forensics
- Heritage archive and restoration - Documentation of historical sites
- Mining

Scanning's additional types of deliverables provide client benefits that include:

- Alignments
- 3D Wireframe Meshes
- Cross Sections
- Volumes
- Contours
- Bridge Clearances
- Breaklines
- 3D Line work
- 2D Line work
- Competitive advantage for clients' proposals, and clients' ability to use raw scan data themselves for downstream needs.

For further details on Karins and Associates High Definition Laser Scanning, please contact us: (302) 369-2900.



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