

3D Laser Scanning



Survey technology has afforded us the ability to easily measure a site or building with accuracy. 3D laser scanning takes that to a whole new level. With 3D laser scanning, we are able to capture detailed information about any visible surface. With a quick scan, we are able to generate point clouds of anything from a mechanical room, or ceiling, to a bridge, building, or busy intersection. The technology allows our surveyors to collect this information quickly and without putting our staff in dangerous situations.

points—interior spaces or outside—providing valuable information to designers and contractors.

The technology allows us to give you a clear picture of your project with incredibly high precision. Our clients use point clouds to accurately model existing conditions before a remodel, to build a BIM model, and to provide as-built information of structures, mechanical systems, and electrical systems. Best of all, you decide how detailed you want the final product to be based on your specific needs:



The information collected by our scanners can be used immediately. The data can be combined with conventional or GPS technology. It provides detailed information so that even the most complex shapes can be modeled with incredible accuracy. The scanners measure objects within 1/8" accuracy from up to 350 feet away. The raw scan looks remarkably like a photograph. Scans from various points are then stitched together to form a complete point model. Using our scanning software, we can accurately measure between any two

3D Laser Scanning Services

- ✓ Predesign field verification scans
- ✓ Partial demo scans for facility remodels
- ✓ Quality assurance scans
- ✓ Construction progress scans
- ✓ Post-construction as-built scans
- ✓ Modeling



3D Laser Scanning, continued

3D scanning provides opportunities for many different types of applications. It can be utilized in any situation where precision is necessary but access is limited or complicated:

- Industrial/high tech
- Mechanical systems
- Historical restoration/preservation
- BIM
- Bridges
- Buildings
- Wind farms
- Marine
- Oil & gas
- Solar
- Sewer & water
- Stormwater facilities
- Streets/highways/intersections
- Accident investigation
- Archaeology
- Landslides/formations



About AKS

AKS Engineering & Forestry, LLC is a Northwest based, locally owned multi-disciplinary consulting firm that has been providing professional civil engineering, land surveying, land use planning, landscape architecture, arborist, and forestry services to a broad range of clients since 1996.

AKS has professional land surveyors registered in Oregon, Washington, Idaho, and Utah.

www.aks-eng.com