

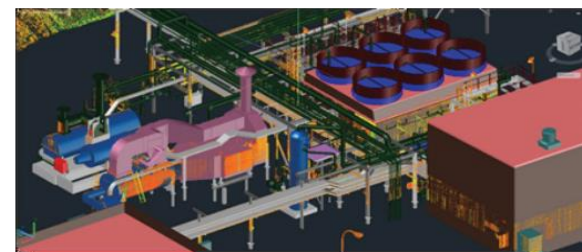
# 3D Scanning

GeoVerra focuses on providing efficiency not only in the field while collecting data, but also in the office, combining highly qualified people, powerful software, and a strong QA/QC process.

If it's visible, it can be scanned and modelled with High-Definition Surveying (HDS) laser technology. 3D laser scanning captures highly accurate detail in a fraction of the time it takes using conventional survey methods. This unobtrusive survey is safe, thorough and cost-efficient; reducing facility downtime and return visits to the site.

## Utilization

- As-built surveys of oil and gas, civil and mechanical installations
- High-definition surveys of plant sites and compression installations
- Infrastructure and construction
- Transportation (rail, bridges, roads)
- Fabrication and engineering
- Project design and planning
- Measurements of inaccessible or unsafe areas quantity surveys, earthworks and volumetric reporting
- Objects and architecture with historic or archaeological importance
- Accident investigation and analysis
- Mining



## Deliverables

- 3D CAD, Revit, Navisworks models
- Contour plans
- Point cloud
- Surface Tin
- Elevation "heat" maps
- 3D PDF



GeoVerra's highly experienced team uses the latest, most technically advanced 3D laser scanners and software on the market. What does this mean? Efficiency, accuracy and reliable deliverables.

### Leica P-Series



- Type – survey-grade scanner
- Class of device – high-definition survey
- Target projects – surveying
- Main use – outdoor and indoors
- Typical project sizes – large
- Main characteristic – versatility & precision
- Scan speed: 1,000,000 pts/sec

### Leica BLK360



- Type – imaging and lidar scanner
- Class of device – documentation
- Target projects – architect and design
- Main use – indoor
- Typical project sizes – small
- Main characteristic – simplicity & portability
- Scan speed: 360,000 pts/sec

### NavVIS VLX 3



- Wearable mobile mapper
- 32-layer lidar sensors
- Groundbreaking SLAM (simultaneous localization and mapping) software
- Live scanning feedback
- Main use – outdoor and indoors
- Typical project sizes – small to large
- Main characteristics – complexity and efficiency
- Scan speed: 1.2 million points per second



### Leica RTC360

- Type – 3D laser scanner
- Class of device – reality capture
- Target projects – 3D reality capture
- Main use – outdoor and indoors
- Typical project sizes – medium
- Main characteristic – performance & productivity
- Scan speed: 2,000,000 pts/sec



### Snoopy A-Series HDL-32E Velodyne

- Type – 3D laser scanner
- Class of device – reality capture
- Target projects – corridor and open areas – to be used on aerial UAV platforms
- Main use – outdoor
- Typical project sizes – medium and large
- Main characteristic – performance & productivity
- Scan speed: up to 1,390,000 pts/sec

### Trimble SX 12



- Type – scanning total station
- Class of device – long range scanning
- Target projects – surveying
- Main use – outdoor and indoors
- Typical project size – corridor projects (transmission lines and pipelines)
- Main characteristics – maximum efficiency & 1" angular accuracy
- Scan speed – 26,600 points per second / 2.5 minutes

For more information, visit our website or get in touch with your local office at [geoverra.com/contact](http://geoverra.com/contact)