



BOREHOLE LASER PROFILING

Laser profiling surveys provide a fast and safe means of imaging large caverns, voids, abandoned mine shafts, and other large areas where direct access is not possible. Borehole laser can also identify and define large features in a way traditional downhole videos and imaging surveys cannot. COLOG utilizes both a rotating head laser scanner and 360-degree LiDAR scanner depending on project needs and condition. Laser scan points come with XYZ coordinates and can be oriented with known points in the survey area.

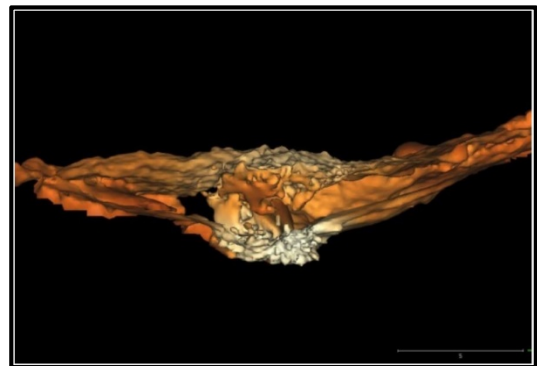
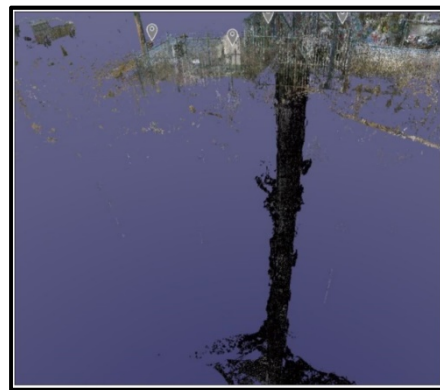
Post processing of the data allows oriented images to be displayed with cut-ways that can be presented in a formal report. Volume of the surveyed object can also be calculated. The data can be converted into a variety of different formats to be merged with surface laser scans, 3D CAD Models, or other computer based models of the survey area.

APPLICATIONS:

- + Karst Geology / Solution Cavities
- + Underground Voids
- + Abandoned Mine Shafts
- + Land Subsidence / Sinkhole Investigations
- + Large Diameter Vent Shafts
- + Storage Tanks and Drilled Foundation Imaging

PROBE SPECIFICATIONS:

Diameter:	89 mm (3.5 in.) / 61 mm (2.4 in.)
Length:	2.5 m (8.2 ft.)
Max Temperature Rating:	40°C (104°F)
Operating Conditions:	Dry Environments
Access Hole Diameter:	Minimum 3-4 in.; dependent on tool and hole conditions
Radial Distance Range:	200 m (656 ft.) max; dependent on void conditions
Field of View:	360-degree, if access and conditions allow
File Formats:	LAS, DXF, Point Cloud ASCII and Binary, etc.



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