

UNDERWATER STRUCTURAL INSPECTIONS

•2D & 3D Sonar Imaging Investigations

•ROV HD Video Inspections

•Scour & Undermining Investigations

•Concrete Spalling & Crack Detection

•ROV Dye Release Leak Detection

•(UT) Ultrasonic-Thickness Measurements

•Underwater Pan & Tilt Push Camera Inspections

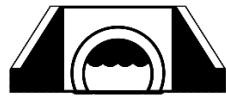


INTAKE GATE & TRASH RACK INSPECTIONS

•2D & 3D Sonar Imaging Investigations

•ROV HD Video Inspections

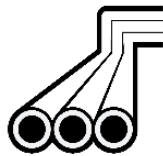
•Underwater Pan & Tilt Push Camera Inspections



CULVERT & SIPHON INSPECTIONS

•3D Flooded Culvert Imaging Investigations (360° Multibeam Tunnel Profiling Sonar)

•3D Partially Flooded Culvert Imaging Investigations (Below Water: 360° Multibeam Tunnel Profiling Sonar & Above Water: Mobile LiDAR)



PENSTOCK & TUNNEL INSPECTIONS

•Flooded Tunnel 3D Imaging Investigations (360° Multibeam Tunnel Profiling Sonar)

•Partially Flooded Tunnel 3D Imaging Investigations (Below Water: 360° Multibeam Tunnel Profiling Sonar & Above Water: Mobile LiDAR)

3D Dewatered Tunnel Investigations (4K Video, Thermal Imaging & LiDAR)



HYDROGRAPHIC SURVEYS

•Side Scan Sonar Imaging Surveys

•3D (MBES) Multibeam Echosounder Surveys

•Canals, Harbors & Reservoir Bathymetric Surveys

•2D & 3D Sonar Vertical Structure Imaging Investigations



SEARCH & RECOVERY

•2D & 3D Sonar Imaging Investigations

•ROV HD Video Inspections

SPECIALIZING IN UNDERWATER INSPECTION SOLUTIONS FOR THE HYDROELECTRIC INDUSTRY

Above Water Services



3D LASER
SCANNING & LiDAR

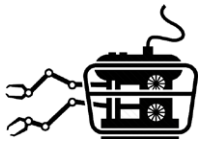
- Millimeter Accuracy Laser Scanning Surveys
- Structural Change Detection Laser Scanning Surveys



AERIAL DRONE LiDAR
& PHOTOGRAMMETRY

- Photogrammetry
- 3D LiDAR & Aerial HD Video Inspections
- Aerial LiDAR Bathymetry Surveys

Technologies



ROV

(Remotely Operated Vehicle)

- 2D & 3D Sonar Imaging Investigations
- ROV HD Video Inspections
- Scour & Leak Detection Inspections



AUV

(Unmanned Aerial Vehicle)

- Photogrammetry
- 3D LiDAR & Aerial HD Video Inspections



USV

(Unmanned Surface Vessel)

- 2D & 3D Sonar Bathymetry Surveys
- Above water LiDAR Data Collection



CRAWLER

(Amphibious Robotic Crawler)

- 3D LiDAR Imaging Investigations
- HD Video Inspections

About Us

Underwater Acoustics International specializes in FERC Part 12D - above and below water Sonar & LiDAR imaging investigations of hydroelectric facilities, utilizing the newest in SONAR and LiDAR technologies. UAI provides comprehensive underwater 2D and 3D sonar imaging services for the submerged areas of the entire dam facility. In addition to below water sonar imaging, LiDAR data of the above water areas is collected and combined with underwater sonar data to create a digital baseline of the facility to be used for change over time comparison against subsequent underwater surveys.

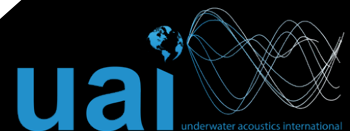
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