Because what's underwater can't be overlooked.
UAI is the industry leader in the visualization and mapping of submerged structures and assets for the hydroelectric industry. We offer Robotic Platforms equipped with HD video, remote sensing SONAR imaging systems and ultra-sonic thickness measurement sensors for underwater asset inspections.

Helping our clients protect people and assets is our primary focus.
Our Services

UAI offers a wide range of underwater acoustic imaging inspection services.

- **Dams**
  - Upstream Dam Face Sonar Study
  - Dam System Visualization
  - Scour Inspection & Monitoring
  - Progress Change Management
  - Draft Tubes, Dam Toes, Tailrace, Intake Structures, Trash Racks, Spillways & Reservoirs

- **Penstocks & Tunnels**
  - Flooded Penstocks
  - Partially Flooded Penstocks
  - Rock Tunnels
  - Outfalls
  - Culverts & Conduits
  - Vertical/Horizontal/Sloped

- **Aqueducts & Waterways**
  - Aqueducts
  - Concrete Lined Canals
  - Unlined Canals
  - Levees
  - Locks

- **Bridges**
  - Bridge Piers & Piles
  - Substructure Visualization
  - Scour Inspection & Monitoring
DEPLOYMENT PLATFORMS
Underwater sonar imaging provides spatially referenced visual representations of hydroelectric dam facilities that maps underwater irregularities and anomalies. Our goal is to give each and every client a clear view of the condition of underwater structures and water bottoms for informed decision-making.
Penstock & Tunnel Inspections

UAI offers robotic platforms equipped with sonar imaging systems and ultrasonic thickness measurement sensors to conduct comprehensive penstock inspections without having to dewater. Our unique methodology results in reliable data for predictive maintenance of penstocks.
Partially Flooded Culvert Sonar Data Unwrapped for 180° plan view.

Flooded Vertical Concrete Lined Penstock Sonar Data Unwrapped for 360° plan view.

Characteristic Joint

Characteristics Joint
UAI provides a comprehensive view of submerged asset infrastructure and its interface with the water bottom. Our technique allows for greater resolution in creating a visual representation of waterway bottom topography that maps anomalies through high resolution imagery & bathymetric point cloud data.
*See previous page for photo of actual aqueduct.*
Bridge Inspections

Underwater Acoustic International's sonar imaging services provide the greatest definition and accuracy in submerged visualization and mapping. In turn, offering the most comprehensive, cost-effective & safe solution during bridge inspections.
THANK YOU

We appreciate you taking time out of your busy schedule to attend our presentation and want to thank you for consideration.