

Bathymetric Survey



Single Beam

Single beam echosounders operate across multiple frequencies, allowing accurate mapping in shallow water of less than a foot to depths exceeding 3,000 feet. These systems collect discrete point returns along the vessel's path, and can be interpolated to model sub surface topography to support a wide range of analytical needs. Our suite of transducers spans from high resolution 450 kHz units to powerful 33 kHz systems designed for the deepest environments.



Side Scan

Side scan sonar functions much like an ultrasound image, revealing features across the lakebed with striking clarity. Instead of returning a single point, each acoustic pulse produces a thin slice of imagery shaped by the sonar beam. As the USV moves forward, these slices accumulate into a continuous, detailed mosaic of the bottom. With our 450 kHz transducer set, we can capture high resolution imagery across ranges up to 150 meters.

