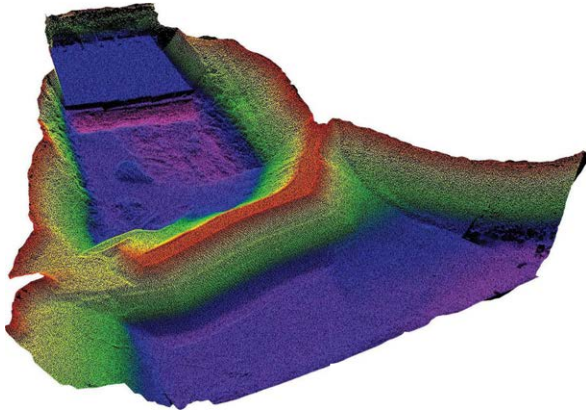


# HYDROLITE-MB™

Integrated Multibeam Sonar System



Folsom Dam, California

The **HydroLite-MB™** is a portable turn key integrated multibeam system scalable to meet your performance and budget requirements

With its range from entry level to workhorse to professional levels **Seafloor Systems can provide a solution for low to ultra-high resolution data while maintaining productivity and performance.** With fixed, measured offsets, installations are constant, reliable, and repeatable, thereby reducing risks from human error.

GPS and data collector sold separately.

## DEFAULT COMPONENTS

- Mounting Pole with Fixed Position IMU Plate and Fixed GPS Antenna Mast
- Multibeam Sonar (Customer Specified)
- Sound Velocity Probe
- Sound Velocity Profiler
- Multibeam Data Collection and Processing Software
- Professional Setup and On-Site Training (Upon Request)



The HydroLite-MB can be adapted to any survey vessel

## MULTIBEAM SONAR SYSTEMS



SeaBat IDH T50  
Multibeam Echosounder

Seafloor SeaRAY  
Multibeam Echosounder



SeaBat T51  
Multibeam Echosounder



Each system is pre-configured and pre-calibrated on its mounting frame. The configuration includes:

- Shallow water multibeam echosounder
- Inertial navigation system for heave, pitch, roll, heading, and positioning
- Sound Velocity Probe
- Portable Mounting Pole

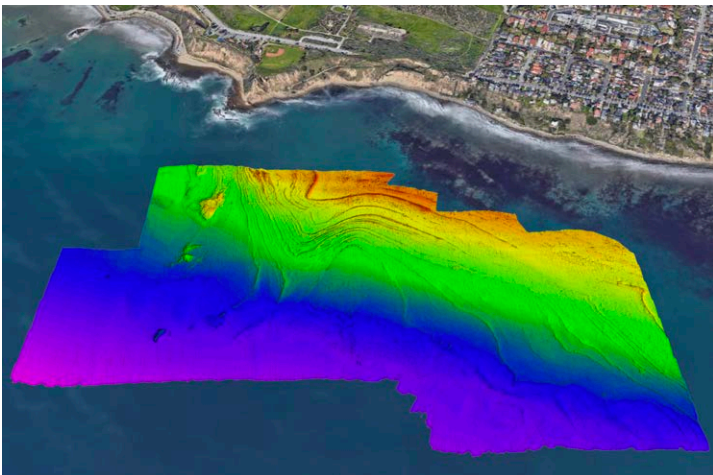
Combined with the software for survey planning, data collection, patch test calibration, and data processing, the HydroLite-MB package offers everything required to conduct, collect, and analyze high-resolution multibeam survey data.

## SONAR SPECIFICATIONS

- Frequency: 190 kHz to 420 kHz
- Swath: 120° to 210°
- Bottom Coverage Per Swath: 3.5xWD to >20xWD
- Beam Angle, Along Track: 1.5° to 0.5°
- Resolution: 36 mm to 6 mm
- Number of Beams: 10 - 1024
- Depth Ranges: 0.5m to 600m
- Power: 12W to 300W  
12VDC to 24 VDC  
110-230 VAC
- Weight: Sonar Head - 3 kg to 14 kg
- Size, Sonar Head: (200 mm x 170 mm) to (460 mm x 280 mm)

## SONAR OPTIONS

- Dual Head
- Roll Stabilization
- Swath Steering
- Head Tilt
- Frequency Modulation
- Adaptive Gates
- Sidescan Output
- Snippets Backscatter Output
- Water Column Output
- Splashproof or RackMount Processor
- Integrated INS
- MultiDetect (multiple bottom detections per beam for information on items in the water column)



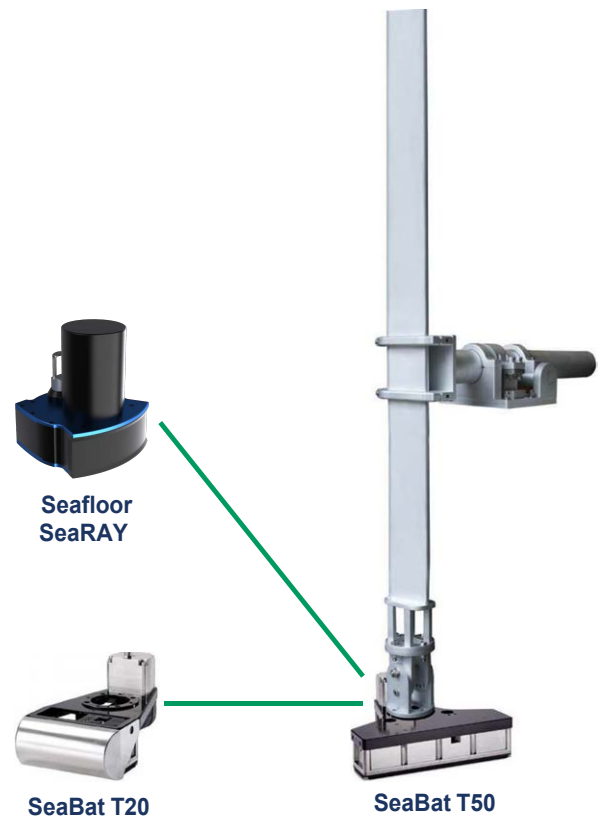
Multibeam Echosounder Data from Nearshore Environment

## INERTIAL NAVIGATION SYSTEM

- Positioning: 2 m to 8 mm
- Roll / Pitch: 0.05° to 0.01°
- Heading: 0.06° to 0.01°
- Heave: 5 cm to 2 cm
- True Heave
- RTK

## EQUIPMENT / SOFTWARE OPTIONS

- PC or Laptop
- Head-Tilt Adaptor (15,30,45)
- Hydrographic Data Collection and Processing SW
- Onsite Installation and Training
- Extended Warranties
- Cube Editing
- Bottom Classification Capability
- Post Kinematic Aided Inertial Post Processing SW



Seafloor's Hydrolite-MB Portable Integrated Multibeam Sonar System can fit a variety of components needed to complete your survey. Customizable for any job.