

EchoBoat™

Unmanned Surface Vehicle

Seafloor™



The **EchoBoat™** is an unmanned surface vehicle developed for hydrographic survey applications.

This highly portable survey platform features multipayload capacity, swappable sensor suites, and both manual and autonomous control.

TRANSPORTATION AND DEPLOYMENT

- Two-person portable.
- Allows access to remote and dangerous environments.

AUTONOMOUS AND REMOTE CONTROL

- Up to 2km remote control range,
- Maneuver easily with powerful differential thrusters.
- Can be monitored within line-of-sight range.

DATA COLLECTION

- Data is stored via an on-board PC with a direct cable connection.
- Full equipment and data control is accomplished using a remote data link.

SOFTWARE COMAPATABILITY

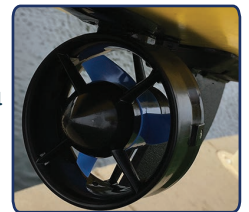
- Compatible with hydrographic data acquisition software.
 - Hypack, PDS2000, EIVA, and QINSY.

CUSTOMIZATION

- The boat may be purchased with the desired depth sounder pre-installed, or supplied ready to accept existing equipment from the user's survey pool.
- Customized cabling can be included to accept existing GPS, GNSS, and RTK positioning systems.
- EchoBoat™ can be outfitted with singlebeam, multibeam, and sidescan sonar systems.
- Additional features are available, please contact your Seafloor representative to discuss vessel requirements.



Two-Person Portable



Differential Thrusters



AutoNav™ Control System



Preplanned survey using Mission Planner



Survey data overlay using Mission Planner



R2 Sonic MultiBeam, Applanix POS MV Surfmaster



EchoBoat in BC, Canada



EchoBoat Crane Lift Into Sea




Launch & Recovery System

Seafloor Systems, Incorporated
4415 Commodity Way
Shingle Springs, CA 95682 | USA

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Specifications



| | |
|---|---|
| Typical Survey Speed | 2 kn |
| Top Speed | 3 kn |
| Hull Length | 1.68 m |
| Hull Width | 0.8 m |
| Battery Endurance | Up to 8 hours |
| Payload | 29 kg / 65 lbs |
| Power | 12-24 VDC |
| Motor | 2x Brushless DC Outdrive |
| Hull Material | UV Resistant HDPE |
| Hull Weight With Batteries (Without Payload) | 58 kg / 130 lbs |
| Hardware | Stainless Steel |
| R/C | 2.4 GHz/900MHz Long Range RCU (US) 2.4 GHz/868MHz Long Range RCU(EU) |
| Remote Range | Up to 2 km Optional or Direct Connection |
| GPS | Customer Specified |
| Communications | 2.4 GHz UHF Telemetry |

Instrumentation Options

| | |
|-------------------|-----------------------------------|
| Sonar Modules | Multibeam Echosounder |
| | Singlebeam Echosounder |
| | ADCP |
| | Side Scan Sonar |
| GPS/GNSS | Subbottom Profiler |
| | Magnetometer |
| | RTK/GNSS |
| | DGPS |
| Auxiliary Sensors | INS |
| | Sound Velocimeter |
| | Velocity Profiler or CTD |
| | Wi-Fi Remote Desktop |
| | HD Thermal Camera |
| | Remote Controlled Profiling Winch |
| | LiDAR |

Seafloor™

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