

# EchoBoat-160™

Unmanned Survey Vessel

# Seafloor™



The **EchoBoat-160™** is an unmanned surface vessel 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 COMPATIBILITY

- 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-160™ 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



Launch & Recovery System



Preplanned survey using Mission Planner



Survey data overlay using Mission Planner



R2 Sonic MultiBeam, Applanix POS MV Surfmaster



EchoBoat in BC, Canada



EchoBoat Launch Via Crane



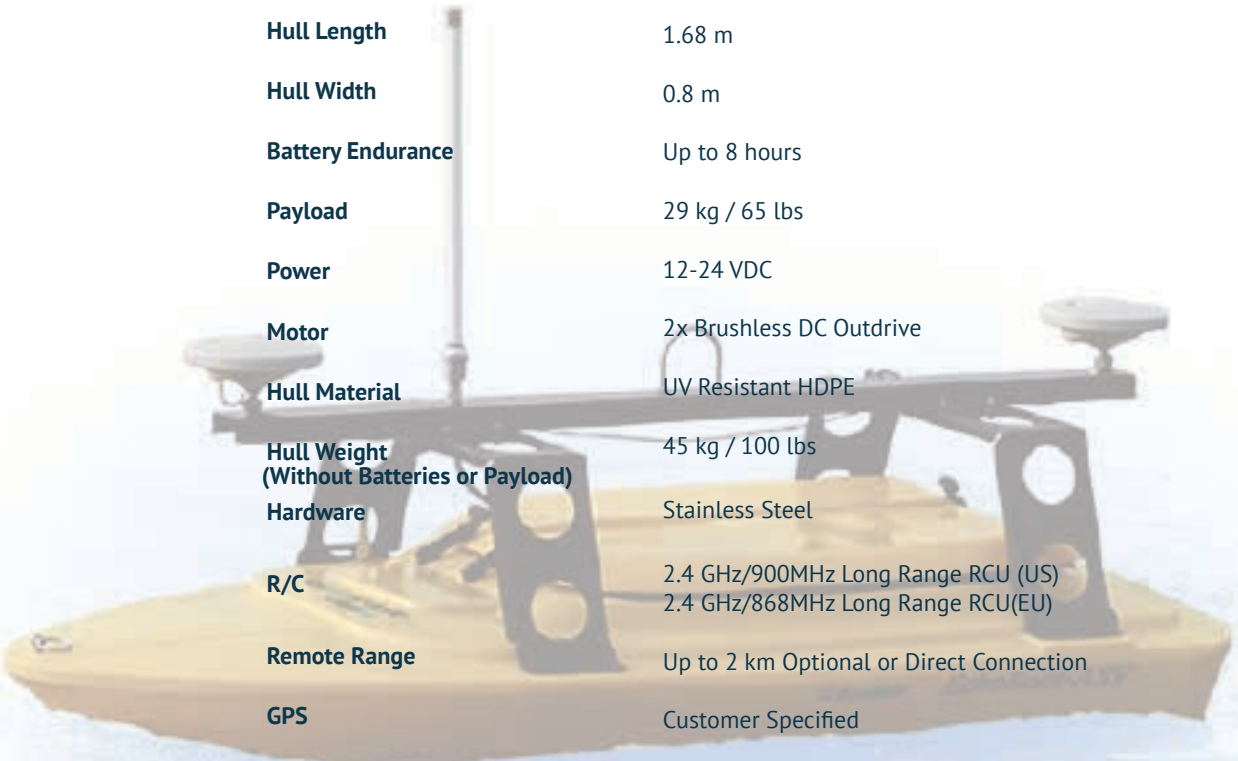
AutoNav™ Control System

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# EchoBoat-160™

## Unmanned Survey Vessel

### Specifications



Typical Survey Speed	3 kn
Top Speed	5 kn (payload dependent)
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 (Without Batteries or Payload)	45 kg / 100 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 Subbottom Profiler Magnetometer
GPS/GNSS	RTK/GNSS DGPS INS
Auxiliary Sensors	Sound Velocimeter Velocity Profiler or CTD Wi-Fi Remote Desktop HD Thermal Camera Remote Controlled Profiling Winch LiDAR

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