Seafloor™

ECHOBOAT-240 USV

Turn Key USV For Hydrographic Surveying

The EchoBoat-240™ is an uncrewed surface vehicle developed for hydrographic survey applications requiring the highest-resolution sensor suite available. With the new EchoBoat-240 platform, the user no longer has to sacrifice performance to meet payload capacity. This is a highly mobile survey platform featuring; multi-payload capacity, both manual and autonomous control, and interchangeable sensor suites.

While underway, the vehicle can be monitored within line-of-sight range, with over-the-horizon monitoring possible when running additional hardware. All data is stored via an onboard PC with a direct cable connection. Full equipment contol and data aquisition is accomplished with a remote data link.

Switching from autonomous to remote control on the survey boat is easy using a long range remote control unit (RCU) that offers up to 2km range, with a survey endurance of up to 8 hours on a single charge.

For professional hydrographic survey requirements, the EchoBoat-240™ may be tailored to individual customer requirements. The boat may be purchased with the desired sensor payload pre-installed, or supplied ready to accept existing equipment from the User's survey equipment pool. Similarly, customized cabling can be included allowing the boat to accept existing GPS, GNSS and RTK positioning systems.

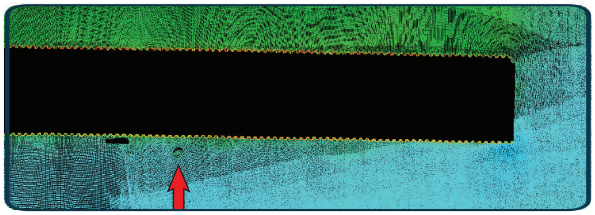
For a turnkey survey-grade system, the EchoBoat-240™ can be outfitted with singlebeam, multibeam, and side scan sonar systems.

The EchoBoat-240™ is compatible with hydrographic data acquisition software such as Hypack, PDS2000, EIVA and QINSy.

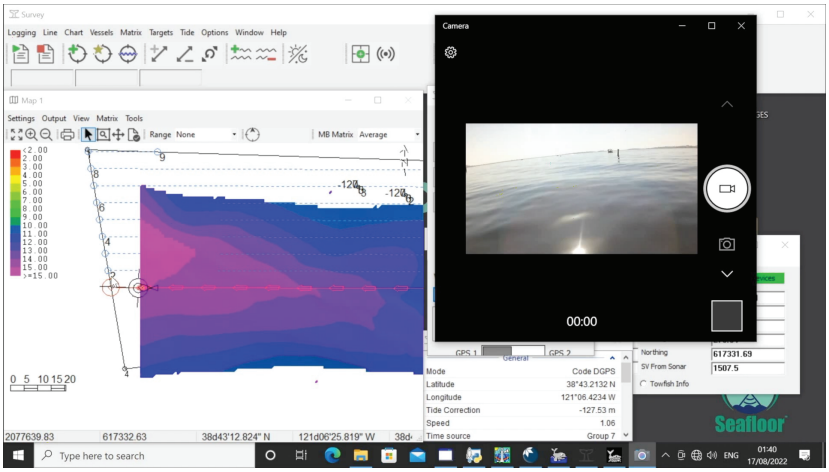
Stable Monohull Design

Teledyne Reson T50

Single User Launch and Recovery



Tire Identified Along Harbor Wall



"HYPACK, Mission Planner, & Forward Looking Camera

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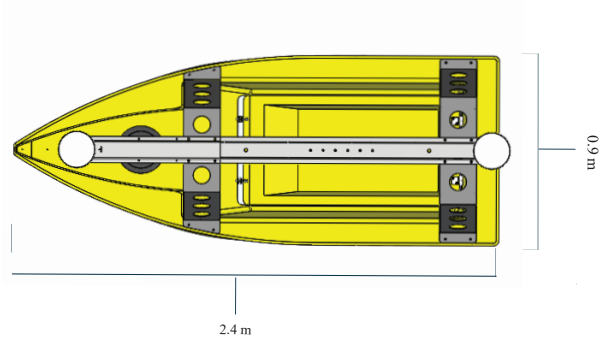
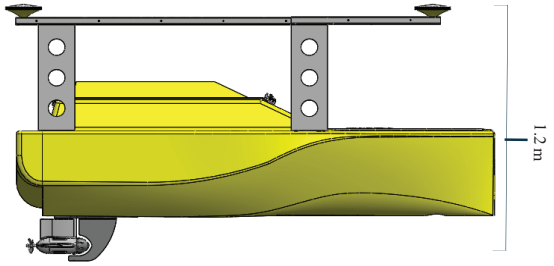
EchoBoat-240™

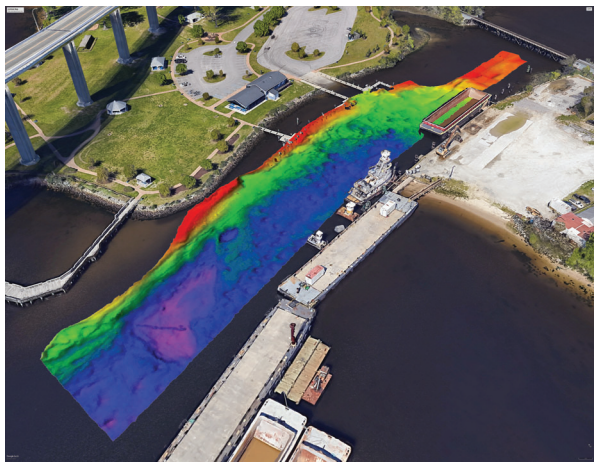
Uncrewed Surface Vessel





EchoBoat-240 Specifications

SeaBat T-50 Data



SeaBat T51 Data

Specifications

Typical Survey Speed	2 kn
Top Speed	4 knots RCV
Hull Length	2.4 m / 45.6 in
Hull Width	0.9 m / 8.2 in
Hull Material	UV Resistant HDPE
Transducer Wells	Main, SVP
Frame	Powder Coated Aluminum
Hardware	Stainless Steel
Empty Hull	158.75 kg / 350 lbs
Battery Endurance	Up to 8 Hours at Survey Speed
GPS	Customer Specified
Payload Capacity	90.7 kg / 200 lbs
Power	25.2 VDC
Motor	2 x Brushless DC Outdrive
R/C	2.4 GHz/900MHz Long Range RCU (868MHz UK)
Remote Range	Up to 2km

Instrumentation Options

Sonar Modules

Multibeam Echosounder
Singlebeam Echosounder
ADCP/DVL
Side Scan Sonar
Subbottom Profiler
Magnetometer

Auxiliary Sensors

Sound Velocimeter
Sound Velocity Profiler / CTD Wi-Fi
Remote Desktop
HD Thermal Camera
Remote SVP Winch
LiDAR

GPS/GNSS

RTK/GNSS
DGPS
INS

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