EchoBoat[™]

Unmanned Surface Vehicle

Seafloor



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

This highly portable survey platform features multipayloadcapacity, swappable sensor suites, andboth manual and autonomous control.

TRANSPORTATION AND DEPLOYMENT

EchoBoat[™] is lightweight and two-person portable, allowing access to remote areas and dangerous environments.

AUTONOMOUS AND REMOTE CONTROL

Switching from autonomous operation to remote control on EchoBoat[™] is easy using a long-range, remote control unit (RCU) that offers up to 2km range with a survey endurance of over eight hours on a single battery bank. EchoBoat[™] is easily maneuvered with powerful differential thrusters and can be monitored within line-of-sight range. Over the horizon monitoring is possible when running additional hardware.

DATA COLLECTION

All 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

EchoBoat[™] is compatible with hydrographic data acquisition software such as Hypack, PDS2000, EIVA and OINSY.

CUSTOMIZATION

For professional hydrographic survey requirements, EchoBoat™ may be tailored for individual customer requirements.

- 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.

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



2-Man Portable



Preplanned survey using Mission Planner



R2 Sonic MultiBeam, Applanix POS MV Surfmaster

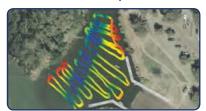


EchoBoat Crane Lift Into Sea



AutoNm.

AutoNav™ Control System



Survey data overlay using Mission Planner



EchoBoat in BC. Canada



Launch & Recovery System

EchoBoat[™]

Unmanned Surface Vehicle

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Specifications

Typical Survey Speed 2 -3 kn

Top Speed 6 kn

Hull Length 1.68 m

Hull Width 0.8 m

Battery Endurance Up to 8 hours

29 kg / 65 lbs **Payload**

Power 12-24 VAC

2x Brushless DC Outdrive Motor

UV Resistant HDPE Hull Material

23 kg / 36 lbs Empty Hull Weight & Batteries

Stainless Steel Hardware

2.4 GHz/900MHz Long Range RCU (US) R/C 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

Auxiliary Sensors

Multibeam Echosounder

SinglebeamEchosounder

ADCP

Sonar Modules Side Scan Sonar

SubbottomProfiler

Magnetometer

RTK/GNSS

DGPS **GPS/GNSS**

INS

Sound Velocimeter

Velocity Profiler or CTD Wi-Fi Remote Desktop

HD Thermal Camera

Remote Controlled Profiling Winch

LiDAR

