AUTONOMOUS. PERSISTENT. PROVEN







Seafloor™

SOLUTIONS

USVs	SONARS	SOFTWARE
High-performance autonomous survey platforms for every application.	Reliable, advanced sonar systems for underwater data collection.	Integrated software for efficient survey data processing and analysis.

Hydrospatial

Marine Construction

Marine

Mining

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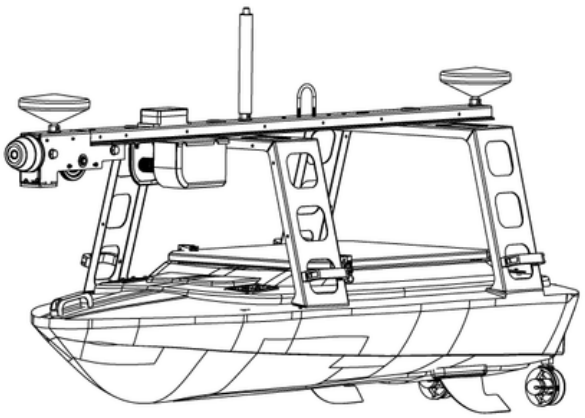

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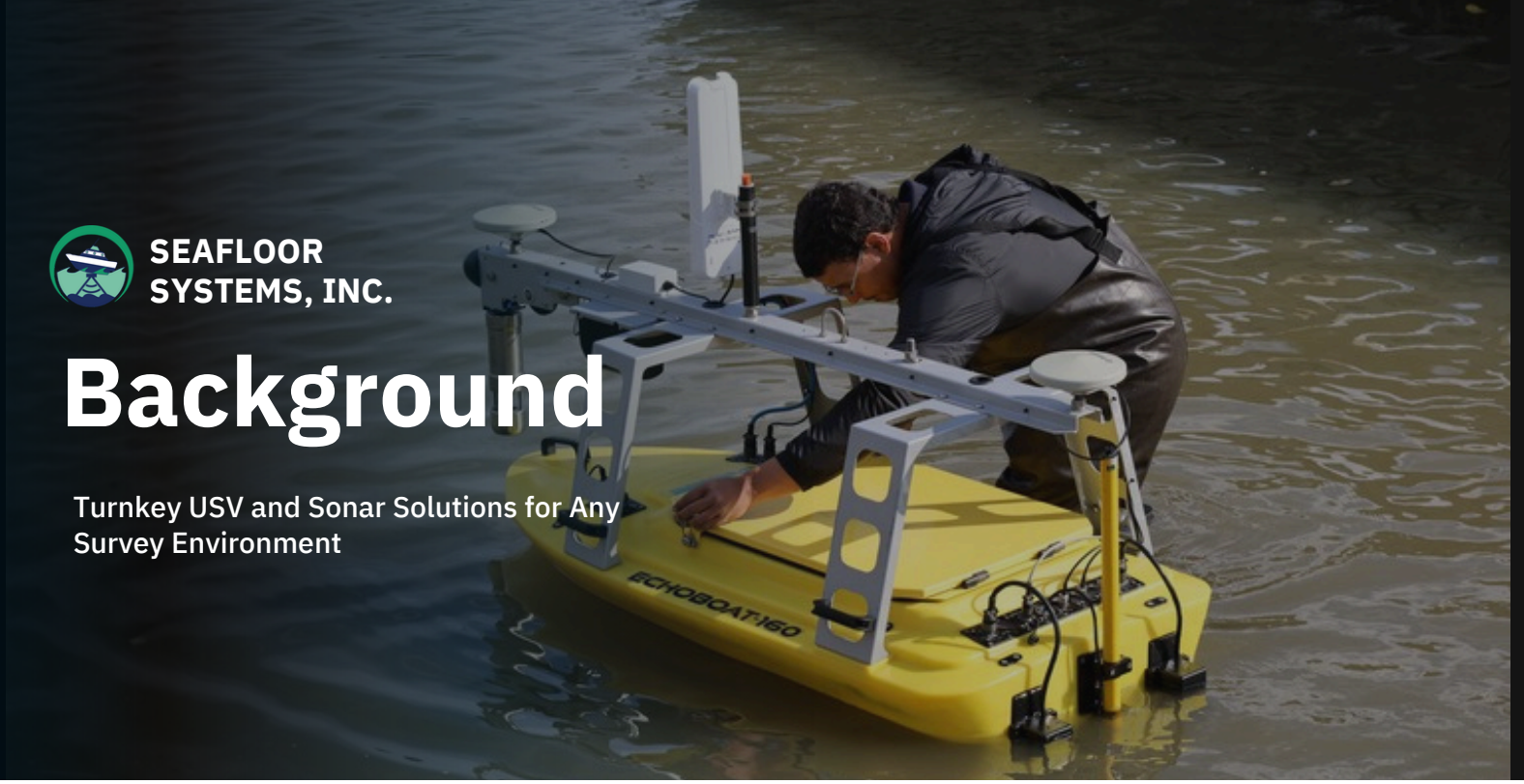

SEAFLOOR SYSTEMS, INC.

Background

Turnkey USV and Sonar Solutions for Any Survey Environment



Founder
John Tamplin

Seafloor Systems is a California-based company specializing in turnkey hydrographic survey solutions for both manned vessels and its own Uncrewed Surface Vessels (USVs). With over 20 years of multibeam sonar experience, the company delivers reliable, well-supported systems tailored to specific performance needs and budgets.

The company was founded by John Tamplin, whose background as a US Navy Sonar Technician included hydrographic surveys for EOD and mine clearance operations. His expertise in sidescan sonar and subsea detection laid the foundation for Seafloor Systems' focus on proven, high-performance technology.

Seafloor Systems, USV Innovation

Seafloor Systems has spent a decade developing its fleet of Uncrewed Surface Vessels (USVs) for advanced hydrographic surveys. The HyDrone™, TriDrone™, EchoBoat™, and HydroCat™ platforms support complex payloads and offer both remote and autonomous operation using our AutoNav™ system, with a focus on reliability, ease of use, and low maintenance.

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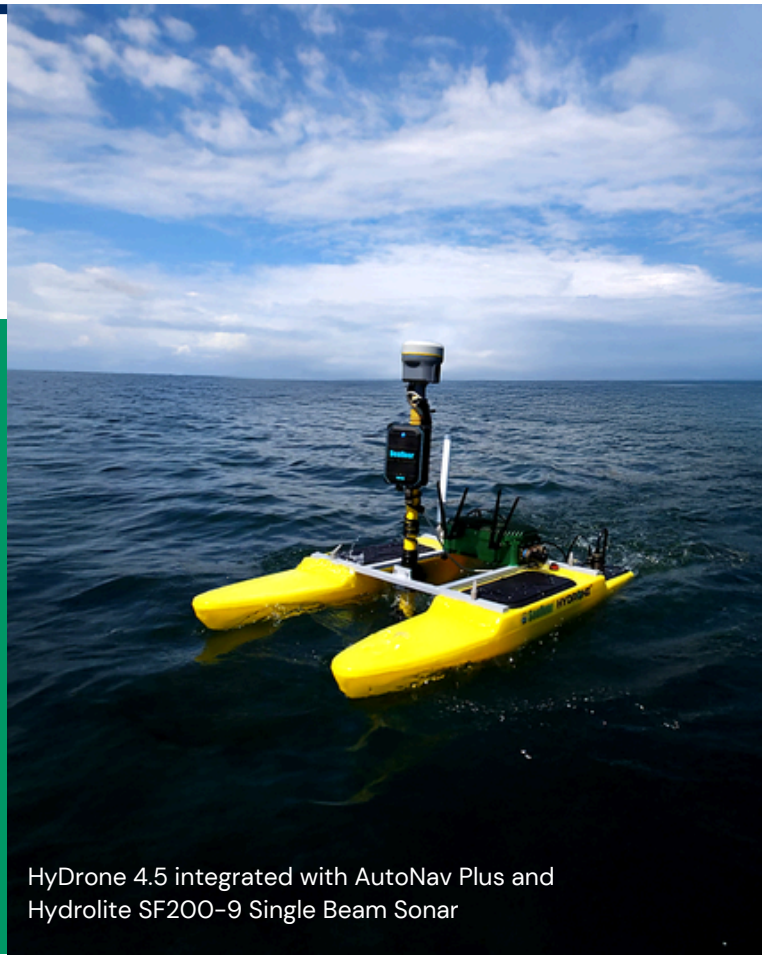
HyDrone

Applications: Inspection / survey of mines, sewage treatment plants, contaminated lakes, and rivers.



HyDrone 4.5 integrated with AutoNav Plus and Hydrolite SF200-9 Single Beam Sonar

ABOUT

The HyDrone USV is a compact, 1.2 m catamaran-style survey platform designed for remote and autonomous operations. Lightweight and one-person portable, it offers stable, reliable performance for simple payloads in calm, protected waters, with efficient power, flexible configuration, and now tool-less setup for faster deployment and breakdown in the field. Optional servo thrusters provide redundant steering for added reliability and control in critical operations.

The HyDrone offers flexible control options to accommodate a variety of survey needs. RCV provides responsive manual control for precise operation, while AutoNav Plus enables automated waypoint navigation, real-time monitoring, and streamlined data logging for efficient survey operations.



RCV



AutoNav Plus

TYPICAL SURVEY SPEED
2 knots (1.03 m/s)

TOP SPEED
4 knots (2.06 m/s) in ideal conditions

HULL LENGTH
1.24 m / 49 in

OVERALL WIDTH
0.74 m / 29 in

HULL MATERIAL
High-Density Polyethylene (HDPE) – UV resistant

HARDWARE
316 Stainless Steel

POWER
15 – 22 VDC Nominal

BATTERY ENDURANCE
Up to 9 hours at survey speed with 6S 22Ah LiPo batteries (field-swappable)

REMOTE CONTROL RANGE
Up to 1 km (0.6 mi) line-of-sight, conditions dependent

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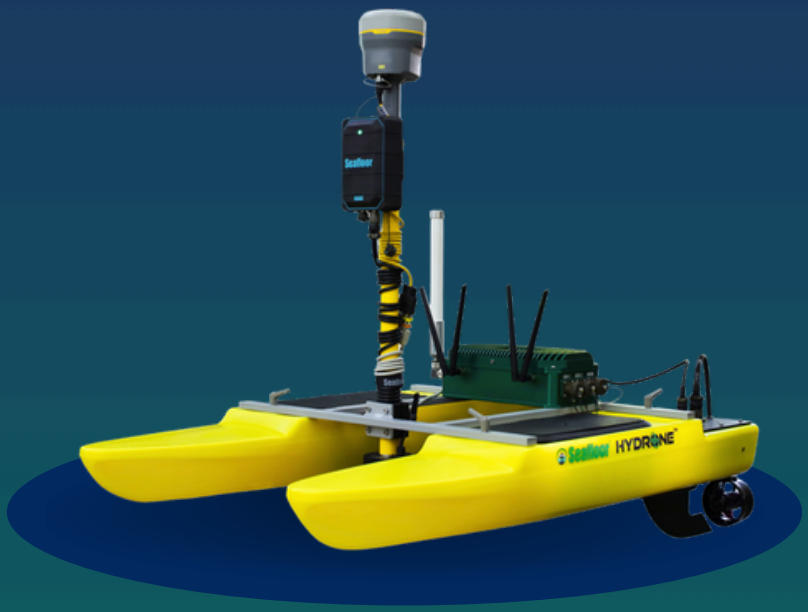
HyDrone Payload Compatibility



System Type	Supported
Sonars	SBES, MBES★, Side-Scan, ADCP
Navigation	GNSS, AutoNav, AutoNav Plus
3D Mapping	SLAM LiDAR
Additional	Data Collectors, Forward Facing Camera

★Certain multibeam systems may require the TriDent center hull conversion.

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TriDrone

Applications: Inspection / survey of steeply-banked rivers & lakes, mines, sewage treatment plants, and contaminated waters.



ABOUT

The TriDrone™ USV is a super-compact, portable platform designed for hydrographic surveys in confined and remote waters. Featuring a stable triple-pontoon design and a hull-integrated SF200-9 single beam echosounder, it delivers precise, efficient performance in hard-to-reach areas. With remote control operation, a highly maneuverable servo thruster, and a foldable design for one-person transport, the TriDrone™ enables safe, productive surveys from the shore.

TYPICAL SURVEY SPEED
2 knots (1.03 m/s)

TOP SPEED
4 knots (2.06 m/s)
In ideal conditions

HULL LENGTH
1.24 m / 49 in

OVERALL WIDTH
0.86 m / 34 in

POWER
22.2 VDC Nominal

HARDWARE
316 Stainless Steel

HULL MATERIAL
High-Density Polyethylene (HDPE) – UV resistant

REMOTE CONTROL RANGE
Up to 1 km (0.6 mi) line-of-sight, conditions dependent



8hrs+
BATTERY LIFE

22lb
ONE-PERSON PORTABLE



SONAR INTEGRATION

Redesigned for effortless operation and dependable results, featuring a built-in SF200-9 sonar for a streamlined workflow.

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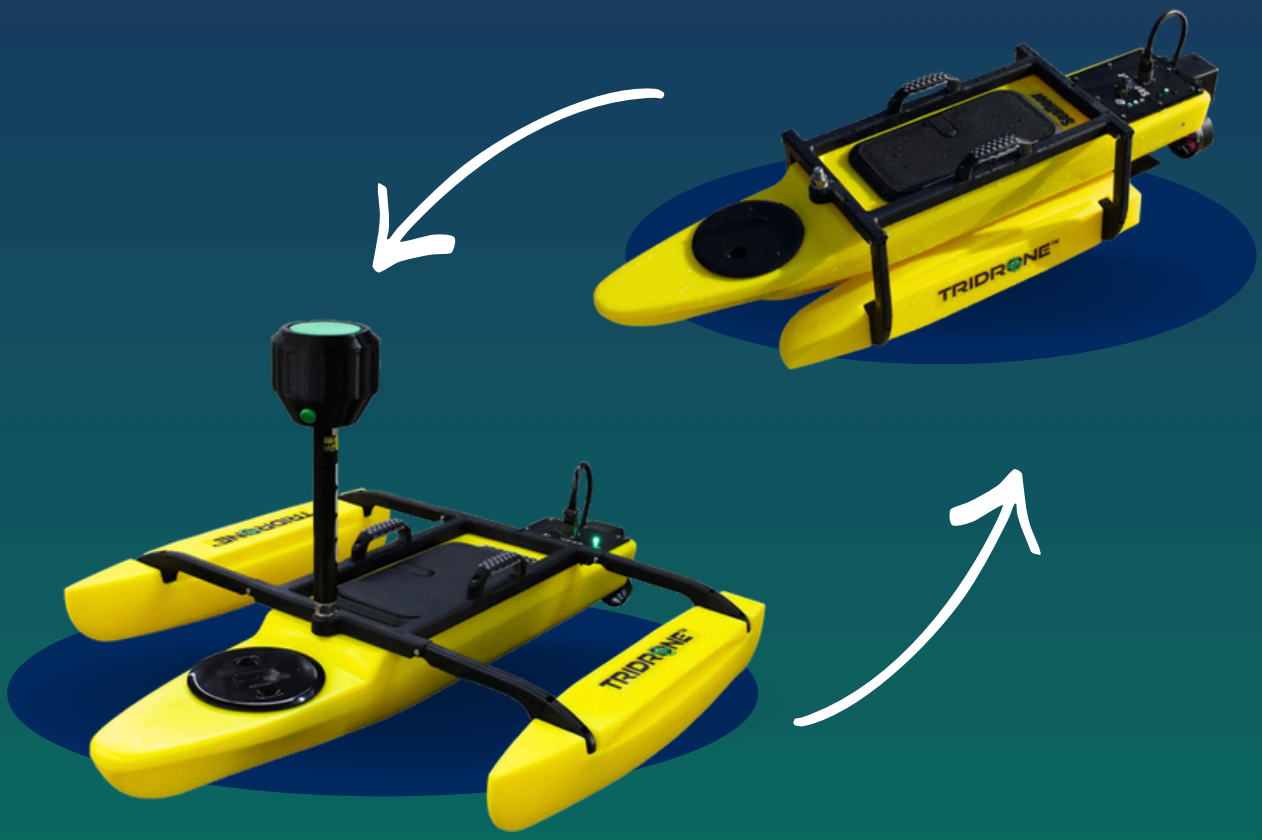
TriDrone Payload Compatibility



System Type	Supported
Sonars	Hydrolite SF200-9
Navigation	GNSS
Additional	Data Collectors

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TriDent

Applications: Inspection/survey of steeply-banked rivers & lakes, dredge ponds, sewage treatment plants, and confined waters.



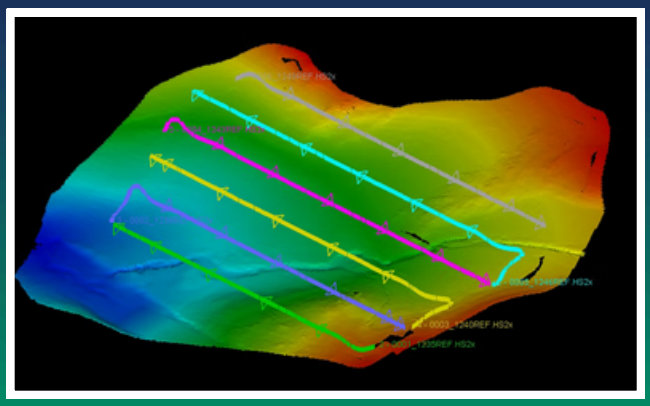
ABOUT

The Trident USV™ is a remote platform purpose-built for multibeam hydrographic surveys. This trimaran collects high resolution depth data via remote control or preplanned autonomous routes, and reaches areas inaccessible by larger survey vessels.

The sonar bay of the center hull allows for flexible integration of various compact multibeam systems, and the outriggers detach for one-person transport. For existing HyDrone users, the platform also offers a straightforward conversion path, enabling you to upgrade your HyDrone into a Trident and expand your survey capabilities without replacing your entire system. Extend the capabilities and flexibility of your surveys with the Trident USV.



TRIDENT - GRAY DEFENSE MODEL



TRIDENT AUTONAV TRACK LINES

TYPICAL SURVEY SPEED
2 knots (1.03 m/s)

TOP SPEED
2.7 knots (1.39 m/s)
Payload Dependent

HULL LENGTH
1.3 m / 51.2 in

OVERALL WIDTH
0.88 m / 34.6 in

POWER
3 x 6S 22Ah LiPo Batteries

HARDWARE
316 Stainless Steel

HULL MATERIAL
Powder Coated Aluminum

REMOTE CONTROL RANGE
Up to 1 km (0.6 mi) line-of-sight, conditions dependent

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TriDent Payload Compatibility



System Type	Supported
Sonars	MBES★, Side-Scan, ADCP
Navigation	Integrated GNSS, AutoNav, AutoNav Plus
3D Mapping	SLAM LiDAR
Additional	Data Collectors

★**The TriDent center hull is specifically designed for (compact) Multibeam Systems.**

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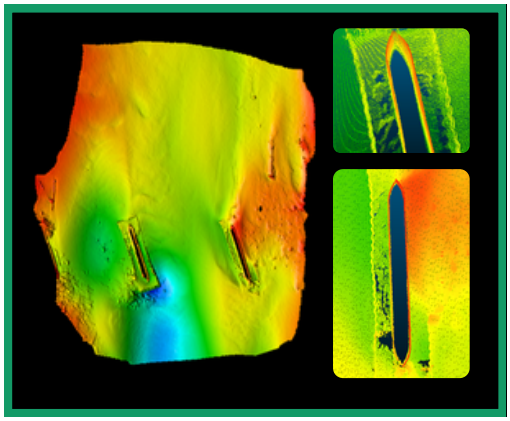
EchoBoat-160

Applications: Inspection / survey of mines, sewage treatment plants, contaminated lakes, harbors and rivers. *Both remotely controlled and autonomous navigation suites available.

ABOUT

The EchoBoat-160 USV is a purpose-built, two-person portable remote survey platform for hydrographic data collection. With true one-switch startup, the nimble vessel accomplishes the same results demanded of large, crewed boats more efficiently and at a fraction of the cost. Like its renowned predecessors, the fifth-generation EchoBoat-160 integrates professional-grade sensor suites in a compact package to navigate challenging bodies of water by remote control or autonomous wayfinding. Perform hydrographic surveys remotely, safely, and confidently with this meticulously engineered uncrewed surface vessel.



ECHOBOAT-160 WITH SEARAY

TYPICAL SURVEY SPEED
2 knots (1.03 m/s)

TOP SPEED
3 knots (1.54 m/s)

HARDWARE
Stainless Steel

HULL LENGTH
1.7 m / 5.6 ft

HULL WIDTH
0.8 m / 2.6 ft

HULL MATERIAL
UV Resistant HDPE

REMOTE CONTROL RANGE
2.4 GHz/900MHz Long Range RCU (868MHz Available)

POWER
24 VDC



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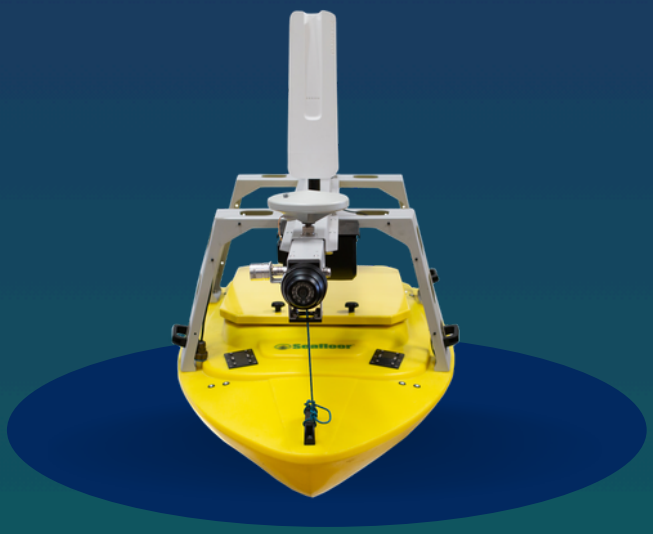
EchoBoat-160 Payload Compatibility





System Type	Supported
Sonars	SBES, MBES, Side-Scan, ADCP, Sub-Bottom Profiler
Navigation	Integrated GNSS, AutoNav, CAA
3D Mapping	SLAM LiDAR
Oceanographic Sensors	SVP, SVS, CTD
Additional	Trailer, Data Collector, Forward Facing Camera

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EchoBoat-240

Applications: Inspection / survey of mines, sewage treatment plants, lakes, harbors, rivers, and in-shore areas.



ABOUT

The EchoBoat-240™ enables users to integrate robust equipment payloads and obtain professional-grade survey results remotely. Ideal for launching from a trailer or cart in areas where a manned boat is not feasible, it features integrated collision avoidance for enhanced operational confidence. The SVP is encapsulated in the bow, and the wave-piercing hull is designed to efficiently collect data and save time in the field. It can operate as a standalone vessel or be lowered via davit from a survey boat to act as a force multiplier alongside the main vessel.

TYPICAL SURVEY SPEED
2 knots (1.03 m/s)

TOP SPEED
4 knots (2.06 m/s)

HULL LENGTH
2.4 m / 7.9 ft

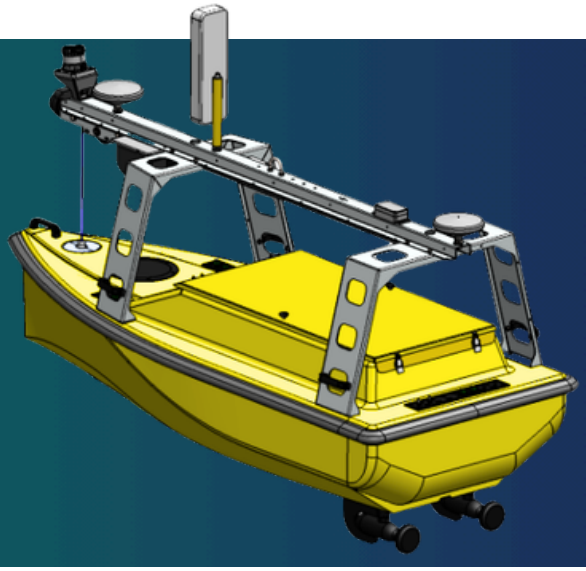
OVERALL WIDTH
0.9 m / 3 ft

POWER
25.2 VDC

HARDWARE
316 Stainless Steel

HULL MATERIAL
UV Resistant HDPE

REMOTE CONTROL RANGE
2.4 GHz/900MHz Long Range RCU (868MHz Available)



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EchoBoat-240 Payload Compatibility





System Type	Supported
Sonars	SBES, MBES, Side-Scan, ADCP, Sub-Bottom Profiler
Navigation	Integrated GNSS, AutoNav, CAA
3D Mapping	SLAM LiDAR
Oceanographic Sensors	SVP, SVS, CTD
Additional	Trailer, Data Collector, Forward Facing Camera

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HydroCat-550

Applications: Inspection / survey of lakes, harbors, large rivers, rough nearshore environments, water quality research, tidal zones.

ABOUT

The HydroCat-550™ USV is capable of transiting from inshore to nearshore environments with larger, high-resolution payloads to execute preplanned autonomous hydrographic surveys. The 5.5 m (18 ft) catamaran features individually articulating pontoons, a gimballed deck, retractable sonar pole mount, and independently actuated electric motors, along with integrated collision avoidance for enhanced safety. It can be launched via trailer, crane, or winch, and is available in gasoline and diesel hybrid configurations for increased transit speed or extended endurance. Built with a durable aluminum hull, the vessel can navigate up to sea state 5 conditions and operate as a standalone system or as a force multiplier.





TYPICAL SURVEY SPEED
2.5 - 4.5 knots (1.28 - 2.3 m/s)

TOP SPEED
12 knots (6.17 m/s)

HULL LENGTH
5.5 m / 18 ft

OVERALL WIDTH
2.5 m / 8 ft

POWER
12 VDC payload -
48 VDC Driveline

HARDWARE
316 Stainless Steel

Frame
Powder Coated Aluminium

REMOTE CONTROL RANGE
2.4 GHz/900MHz Long Range RCU (868MHz Available)

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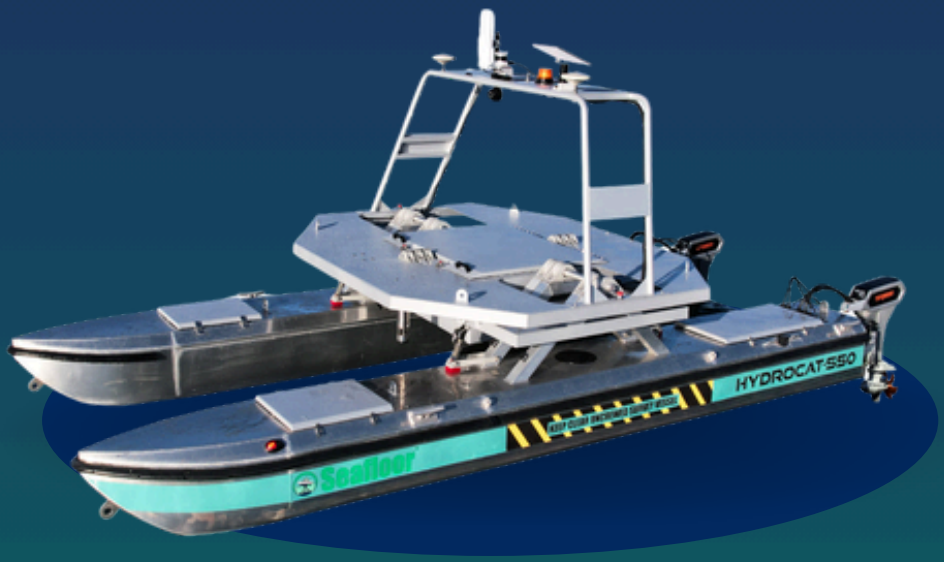
HydroCat-550 Payload Compatibility



System Type	Supported
Sonars	SBES, MBES, Side-Scan, ADCP, Sub-Bottom Profiler
Navigation	Integrated GNSS, AutoNav, CAA, Wavemaster
3D Mapping	SLAM LiDAR
Multi Transducers	Dual Head, SBES + MBES
Oceanographic Sensors	SVP, SVS, CTD
Additional	Trailer, Data Collector, Forward Facing Camera

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HYDROLITE SF200-9

Singlebeam Echosounder





TRANSDUCER

ABOUT

The Hydrolite SF200-9™ is the latest version of our iconic single beam echosounder. Designed for simplicity and reliability, it features auto-ranging and universal compatibility with most survey equipment brands. Its interchangeable topside supports both single frequency and dual frequency transducers, providing added flexibility in the field. The single-beam echosounder offers the straightforward operation that traditional land surveyors know and prefer.



Frequency:
200 kHz

Depth Accuracy:
1 cm

Ping Rate:
1 Hz

Range:
0.15 m – 100 m
(0.5 - 328 ft)

Beam Width:
9° (-3 dB)

Output Formats:
NMEA 0183, ASCII, ODOM, ATLAS, Sonarmite

Power:
Internal Battery, 14.4 V/45 W

I/O:
Serial (DB9), Bluetooth

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HYDROLITE SF30/200-26/9

Dual Frequency Echosounder

ABOUT

The Hydrolite SF30/200-26/9 is our newest dual frequency echosounder with a configuration that operates at both 30 kHz and 200 kHz, while also allowing the same topside to be used with our SF200-9 transducer for single-frequency 200 kHz applications.



Frequency:
30 kHz / 200 kHz

Beam Width:
200 kHz: 9° Conical
30 kHz: 7-beam honeycomb, 26°

Ping Rate:
1 Hz

Power:
Internal Battery, 14.4 V / 45 W

Output Formats:
NMEA0183 (DB1), ASCII, Sonarmite DFX

Depth Accuracy:
1 cm

Range:
0.4 m – 200 m (1.3 – 675 ft)

I/O:
Serial (DB9), Bluetooth, Wi-Fi

Product Features

Instant Deployment

Browser-Based Interface

Real-Time Data Output

IP-65 Rated Housing

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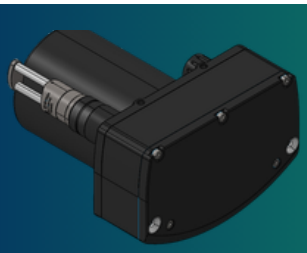
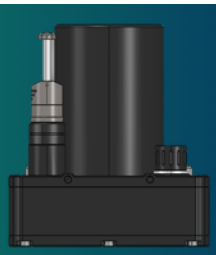
SeaRAY™ Multibeam Echosounder

Seafloor™









FREQUENCY RANGE
400-550 (kHz)

SWATH COVERAGE
Up to 130°

NUMBER OF RX BEAMS
512

ALONG -TRACK BEAM WIDTH
1.45° - 550 (kHz)

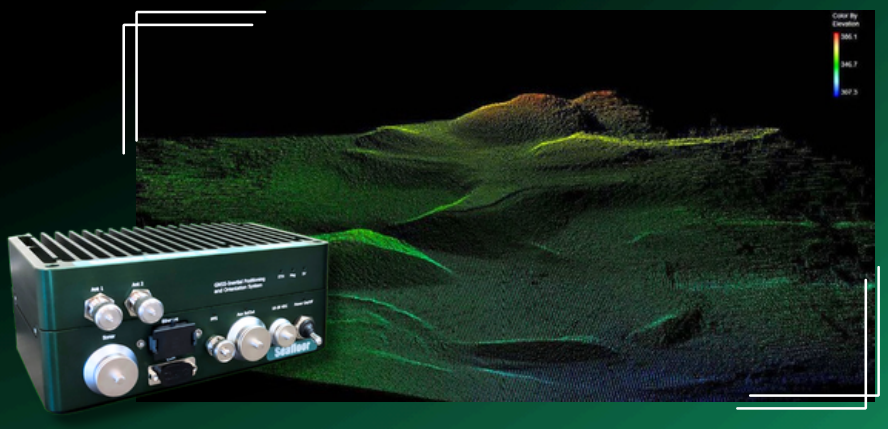
PING RATE
50 Hz

RANGE
200 m (656 ft)

POWER CONSUMPTION
50 W

ABOUT

The SeaRAY™ is a compact, energy-efficient multibeam sonar for easy USV integration. Its hydrodynamic design extends battery life for surveys in ponds, lakes, rivers, and dredge pits. Data acquisition software included.



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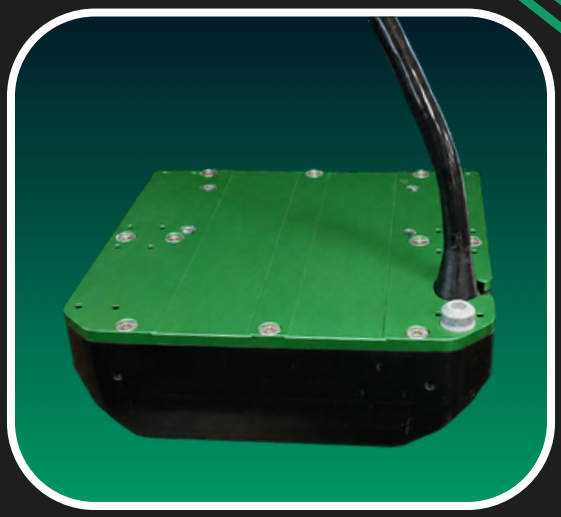
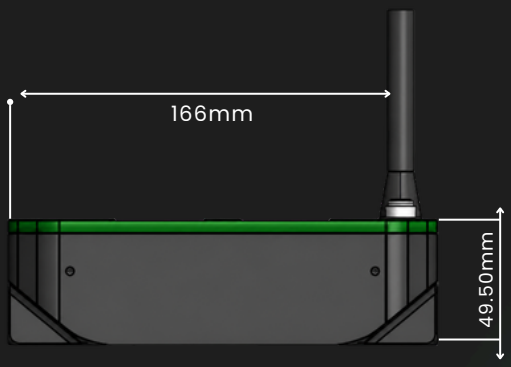
Scout Multibeam Sonar

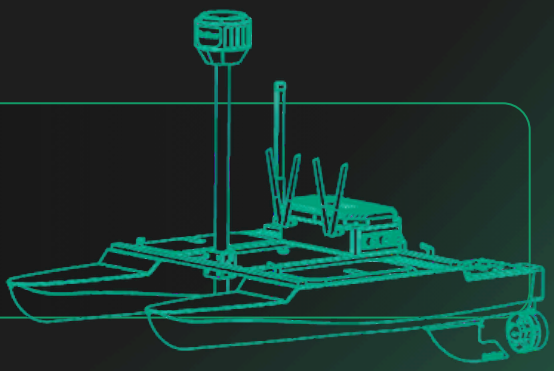


ABOUT

The Scout Multibeam Sonar removes the complexity of traditional systems, delivering real-time, fully georeferenced bathymetric data through any web browser. Lightweight and plug-and-play, it enables fast recon surveys and simple, professional underwater mapping on Seafloor USVs.



The first ever Multibeam Sonar to work with our HyDrone USV line-up!



FREQUENCY RANGE 400 (kHz)	**POWER CONSUMPTION** 20 W	**RANGE** 200 m (656 ft)
SWATH COVERAGE Up to 150°	**ALONG -TRACK BEAM WIDTH** 1.4°	
NUMBER OF RX BEAMS 512	**PING RATE** 60 Hz	

Seafloor™

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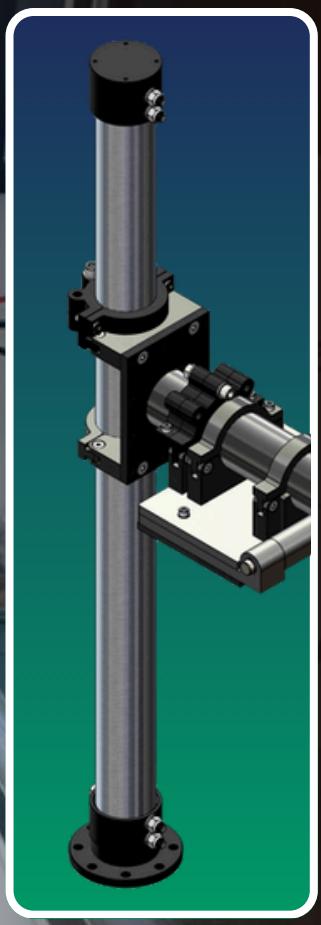
MiniMount

ABOUT

The first and only transportable sonar mount capable of handling single and dual-head multibeam echosounder transducers.







Applications

- **Singlebeam**
- **Side-Scan**
- **Multibeam**
- **Sub-Bottom**

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SOFTWARE INTEGRATION

Seafloor partners with leading brands to provide industry standard hydrographic and land survey software. We focus on delivering compatible solutions for any project, helping you achieve the highest quality results from your data.

Compatible with software platforms including, but not limited to, HYPACK®, QPS Qinsy®, and Teledyne PDS®, Seafloor USVs and sonar systems provide reliable interoperability for hydrographic survey operations in both remote and autonomous environments.

From single beam and multibeam surveys to advanced autonomous missions, Seafloor delivers flexible hardware and software solutions built to support efficient field operations and high quality data collection.

At Seafloor Systems, we focus on providing fully supported, mission ready systems that integrate easily into existing hydrographic workflows while helping survey teams improve operational efficiency and safety.

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OUR MISSION

AUTONOMOUS. PERSISTENT. PROVEN

At Seafloor, our mission is to expand what is possible in hydrographic surveying by delivering reliable, adaptable unmanned surface vehicles that meet real-world challenges.

Through continued innovation of platforms like EchoBoat and HydroCat, we provide flexible, cost-effective solutions that integrate seamlessly with existing workflows while opening access to environments that were once difficult or unsafe to survey.

We are committed to equipping surveyors with tools that improve efficiency, reduce risk, and deliver consistent, high-quality results. By listening closely to customer needs and continuously refining our technology, Seafloor strives to lead the advancement of unmanned survey systems and support the professionals who rely on them every day.





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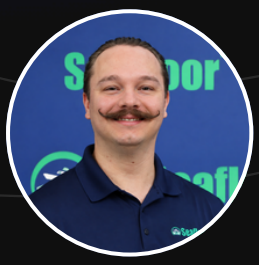
REQUEST A QUOTE TODAY!



Contact Our Team!



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