Specification

Vehicle Specifications	Dimension		1185 mm*593 mm*397 mm
	Weights		10 kg
	Material		Carbon Fiber, Rubber Bumper
	Waterproof		IP67
	Anti-wave & Wind		3rd Wind Level & 2nd Wave Level
	Anticollision Sensor		5-30 Meters Detection Distance
	Camera		360° Omnidirectional Video
Power and Electrical Parameters	Propeller Type		Quick Release Culvert Propellers
	Power		1000 W
	Speed		0.1~6 m/s
	Battery Capacity		29.04 V/34.3 Ah (Typical)/29.04 V/33.27 Ah(Rated)
	Battery Endurance		40 km@1.5 m/s
	Battery Safety		Power Display, High-temperature/Over-current/Short-circuit Protection
Communication Control	Туре		2.4 GHz Wireless Technology (1.7 km); 4G Network
	GNSS Differential Types		Radio; Network; Controller Differential
	Navigation Mode		Manual or Auto-Pilot
	Data Storage Methods		Simultaneous Support for Ship-side Storage and Controller Broadcast
GNSS	Channels		1408
	Position Accuracy	RTK	H: ±8 mm+1 ppm ; V: ±15 mm+1 ppm;
		DGNSS	H: ±0.4 m+1 ppm; V: ±0.8 m+1 ppm;
		Single	H: 1.5 m; V: 2.5 m;
	Directional Accuracy		≤0.2°
	Timing Accuracy		≤20 ns
Single Beam Echo Sounder	Frequency		200 KHz
	Beam Angle		≤5°±0.5°
	Accuracy		±0.01 m + 0.1% x D (D is the Depth of Water)
	Depth Range		0.15m~200 m
	Data Formats		Standard NMEA, DESO 25, ODOM, Knudsen, Bathy, Echotrac
IMU	Refresh Rate		200 Hz
	Position Accuracy		<1 m/30 s
	Directional Accuracy		≤2.1°/h



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Regional Offices:

Warsaw, Poland Jičín, Czech Republic Ankara, Turkey Scottsdale, USA Singapore Hong Kong, China Dubai, UAE



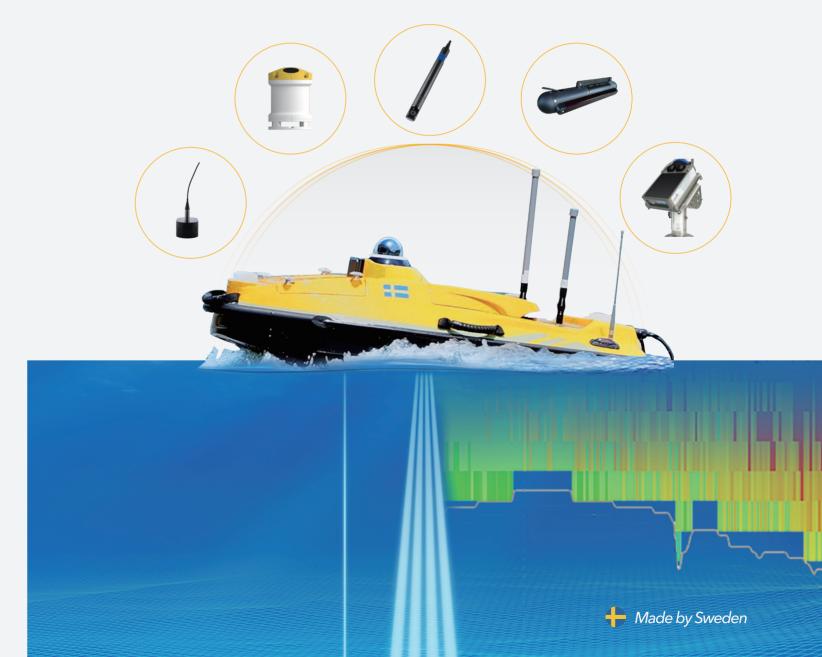




HydroBoat 1200

Multi-Purpose USV Platform for Hydrographic Surveys and Monitoring

One Platform, Infinite Surveys



HydroBoat 1200

HydroBoat 1200—an embodiment of compactness and ease, tailored for seamless operation across a spectrum of equipment.

Enhanced by professional CFD technology, its stability finds new heights. Melded with high-precision single-beam echo sounder, GNSS directional positioning receiver, and an advanced intelligent boat-control system, it deftly serves varied water operational demands.

Augmented safety through embedded IMU, 360° pan-tilt camera, and millimeter-wave radar fortifies its attributes comprehensively. This autonomous vessel, which can be mounted with leading ADCP, side-scan sonar, dual-frequency sounder, multi-parameter water quality meter, image sonar, and more, stands poised as the quintessential partner for tasks encompassing current measurement, bathymetry, underwater survey, and water quality assessment.

Features



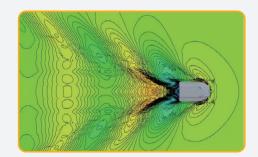
Adaptive Water Flow

Precise hovering and efficient trajectory tracking. No fear of waves and wind. Follow predefined path with accuracy even in challenging environment.

New GNSS+IMU Combination Algorithm

Measure changes in velocity and orientation, and able to solve the accurate position information in GNSS-blocked areas to complete the planned work.





Stability by Design

Hydrodynamically efficient design for the USV's intended operations, guided by CFD simulation, enhances hull stability and noise reduction under varied water conditions and loads.

Portability

- 1. 10 kg lightweight hull
- 2. 1229 mm small size hull
- 3. Multi-function Android boat control software



Versatility

- 1. 240 mm large moon pool
- 2. Supporting transparent data transmission
- 3. Reaching maximum boat speed of 6 m/s for efficient movement



Safety

- 1. 360° PTZ camera
- 2. Millimetre wave obstacle avoidance radar
- 3. Smart battery management platform



Applications

