

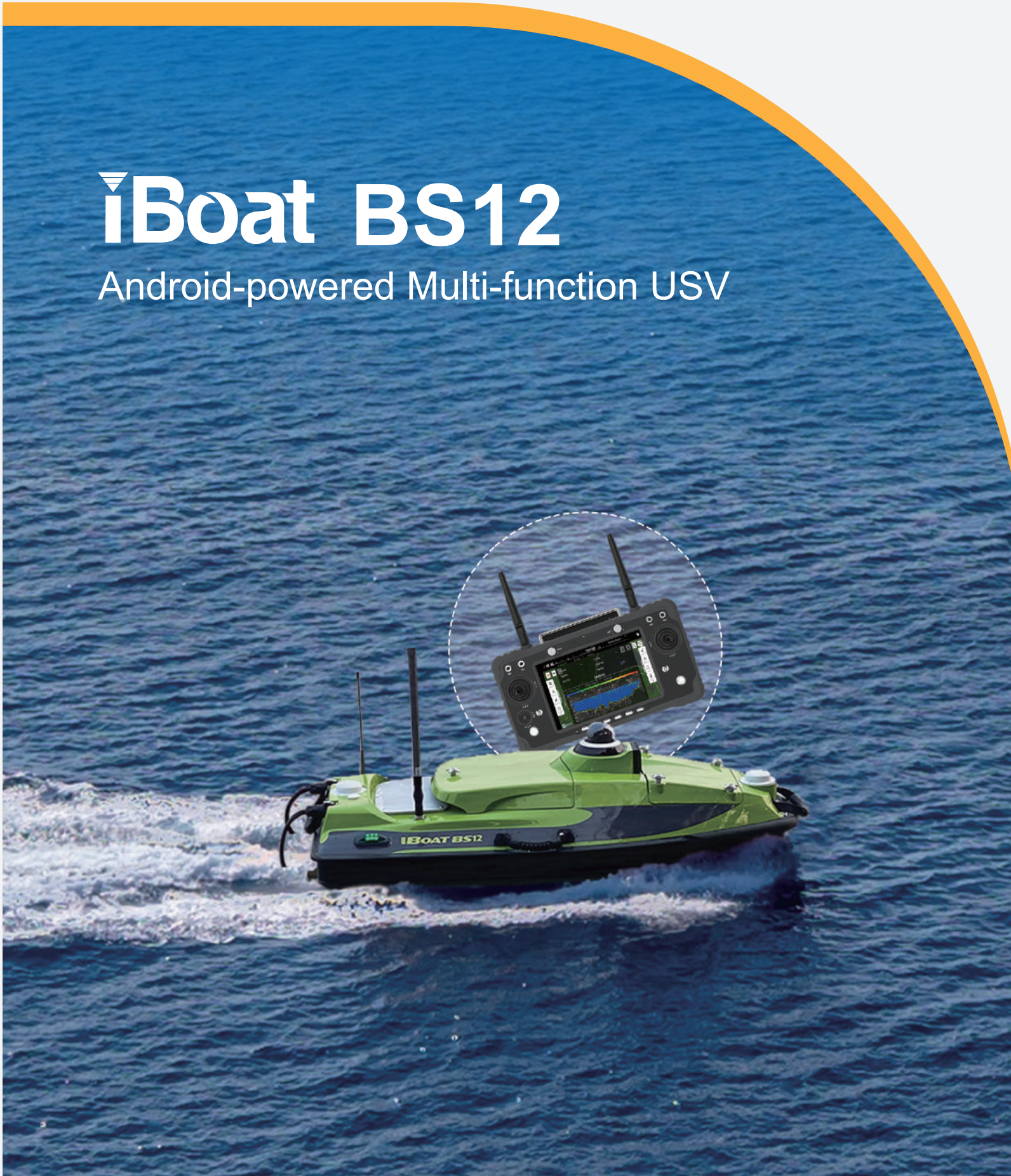
Vehicle Specifications	Hull dimension (L × W × H)	1185 mm*593 mm*397 mm
	Weight	25kg (No Battery)
	Max Load	25kg
	Material	Carbon ber, Rubber Bumper
	Anti-wave & Wind	3rd Wind Level & 2nd Wave Level
	Waterproof	IP67
	Indicator light	Two-color light
	Camera	360° omnidirectional video
	Anticollision sensor	Safeguarded by radar's obstacle avoidance (10-30 meters)
	Propeller	2*Brushless Propeller
	Direction control	Veering without steering engine
	Maximum speed	6m/s
	Battery endurance	One battery 4.5h with 1.5m/s, total 2 batteries
Control System	System	Android System
	Software	SLHydro USV
	Control range	2km on 2.4GHz; Unlimited on 4G
	Communication mode	UHF
	Control mode	Auto / Manual
GNSS Performance	Auto mode functions	Auto-pilot, hovering, auto-return, auto reverse in shallow water
	Satellite system	GPS, BDS, GLONASS, Galieo
	RTK Positioning accuracy	H: ±8mm + 1 ppm RMS V: ±15mm + 1 ppm RMS
	Heading accuracy	0.2° @1 m baseline
	INS accuracy	2.1°/h, <1m/20s
Built-in Single Beam Echo Sounder	Refresh Rate	200Hz
	Depth range	0.15m - 300m
	Accuracy	±0.01m + 0.1% x D (D is the depth of water)
	Frequency	200 kHz
	Beam angle	5±0.5°
Software	Hi-Survey Boat	Mission planning
		Vessel Monitoring
		Coordinate conversion
		Bathymetric data acquisition
	Hi-Max Sounder	Bathymetric data download
		Bathymetric data processing
		Bathymetric data correction
		Bathymetric data export
Expandable Sensors	Acoustic Doppler Current Profiler	
	Single Beam Echo Sounder	
	Side-scan Sonar	
	Multi-parameter Water Quality Meter	

iBoat BS12
Android-powered Multi-function USV



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iBoat BS12

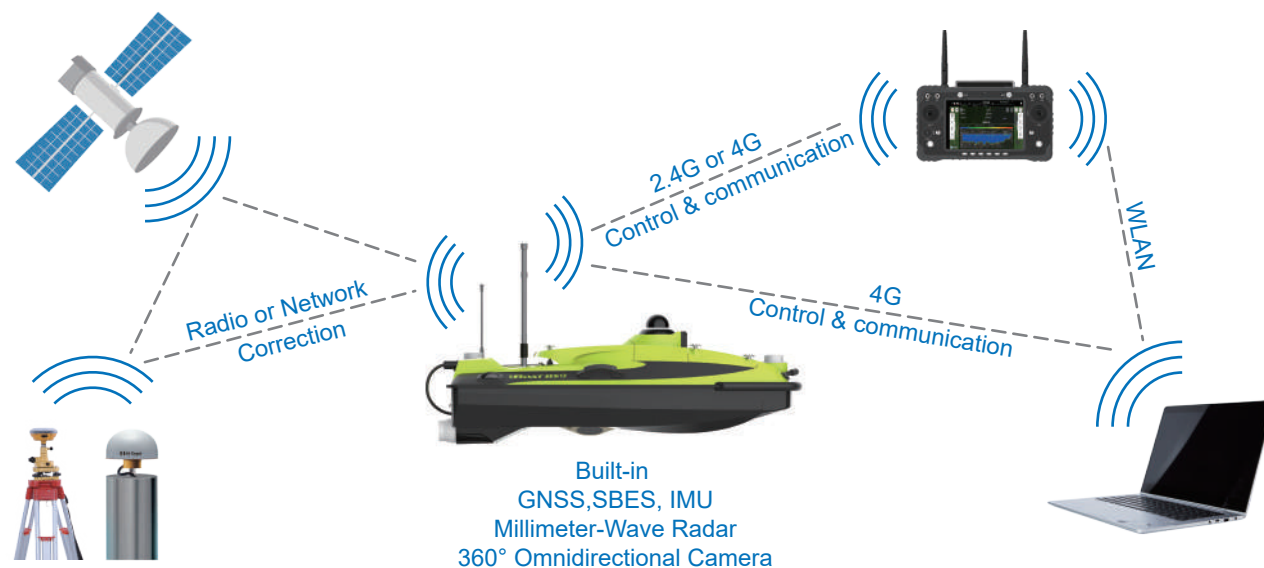
The iBoat BS12, a visionary creation by Hi-Target, emerges as the embodiment of sophistication and simplicity, expertly designed for effortless operation across a multitude of applications.

Engineered with the latest CFD technology and boasting a sleek carbon fiber and Kevlar hull, the iBoat BS12 is as tough as it is elegant. Its corrosion-resistant construction ensures durability in even the harshest conditions. Matched with the newly developed boat control system and a robust battery, it achieves a remarkable top speed of 6 m/s, all while maintaining stability in tumultuous waters. For precise navigational accuracy, the integrated IMU offers sub-meter positioning capabilities when losing satellite signals.

This autonomous vessel is your ultimate partner for a wide range of tasks, offering compatibility with leading devices such as ADCP, side-scan sonar, dual-frequency sounder, multi-parameter water quality meters, and more. Whether you require precise current measurements, bathymetry, underwater surveys, or water quality assessments, the iBoat BS12 stands ready to meet your every need.



WORKING PRINCIPLE



FEATURES

Revolutionized Control System



- Real-time position and bathymetry data backup
- Easily import and plot tracks for seamless navigation
- Trajectory tracking and hovering with adaptive water flow
- Get collision and shallow water warnings for added safety
- 2.4G and 4G dual-channel connectivity makes no limitation on control distance
- USV configuration and data collection can be all done in the software

Seamless Integration and Expansion

- IMU module to compensate for positioning accuracy
- Millimeter wave radar for collision prevention
- 360° Omnidirectional camera for recording photos and videos
- Both GNSS and bathymetry data can be input to ADCP or SSS to improve their accuracy.
- Exceeds IHO special order, CHS exclusive order & USACE New Work



APPLICATIONS

