

<b>Vehicle Specifications</b>	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	Detection distance 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
<b>Controller</b>	System	Android System
	Software	SLHydro USV
	Control range	1.3km on 2.4GHz; Unlimited on 4G
<b>GNSS Performance</b>	Satellite system	GPS, BDS, GLONASS, Galileo
	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
	Refresh Rate	200Hz
<b>Built-in Single Beam Echo Sounder</b>	Depth range	0.15m - 200m
	Accuracy	±0.01m + 0.1% × D (D is the depth of water)
	Frequency	200 kHz
	Beam angle	5±0.5°
<b>Software</b>		Mission planning
		Vessel Monitoring
	Hi-Survey Boat	Coordinate conversion
		Bathymetric data acquisition
		Bathymetric data download
		Bathymetric data processing
	Hi-Max Sounder	Bathymetric data correction
		Bathymetric data export
<b>Expandable Sensors</b>		Acoustic Doppler Current Profiler
		Single Beam Echo Sounder
		Side-scan Sonar
		Multi-parameter Water Quality Meter

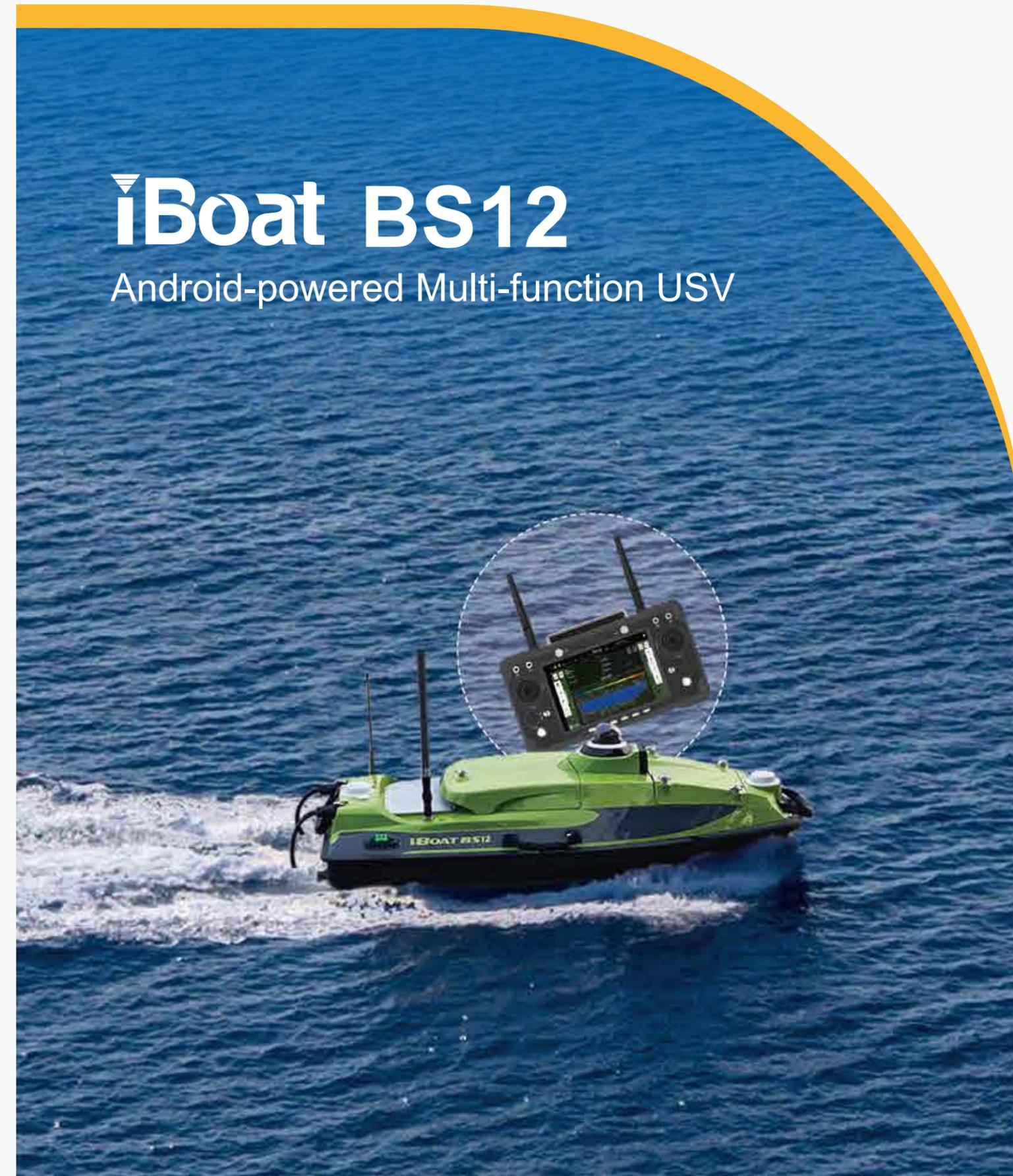


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# iBoat BS12

## Android-powered Multi-function USV

# iBoat BS12

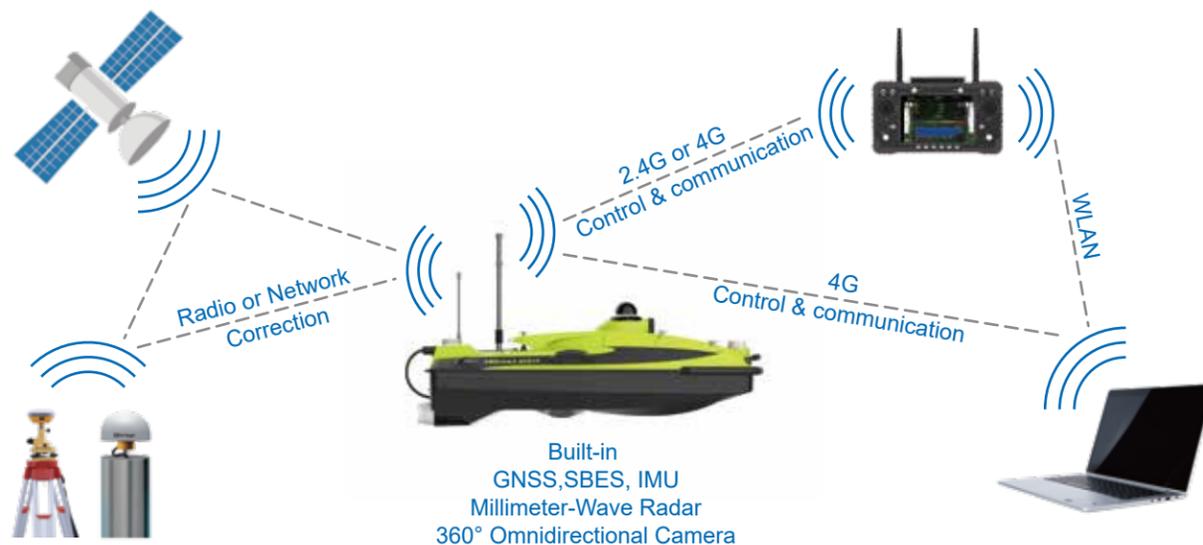
The iBoat BS12, a visionary creation by Hi-Target, emerges as the embodiment of sophistication and simplicity, expertly designed for effortless operation across a multitude of applications.

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

