



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)
	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 Internet
	Navigation Mode		Manual or Auto-Pilot
	Data Storage Methods		Simultaneous Support for Ship-side Storage and Controller Broadcas
Controller	System		Android 7.0; Storage 5 GB; SD Card Supported
	Dimension		272 mm*183 mm*94 mm
	Weights		1034 g
	Display		7 inches
	Battery Capacity		20000 mAh
	Battery Endurance		6-20 h
GNSS	Channels		1408
		RTK	H: ±8 mm+1 ppm; V: ±15 mm+1 ppm;
	Position Accuracy	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



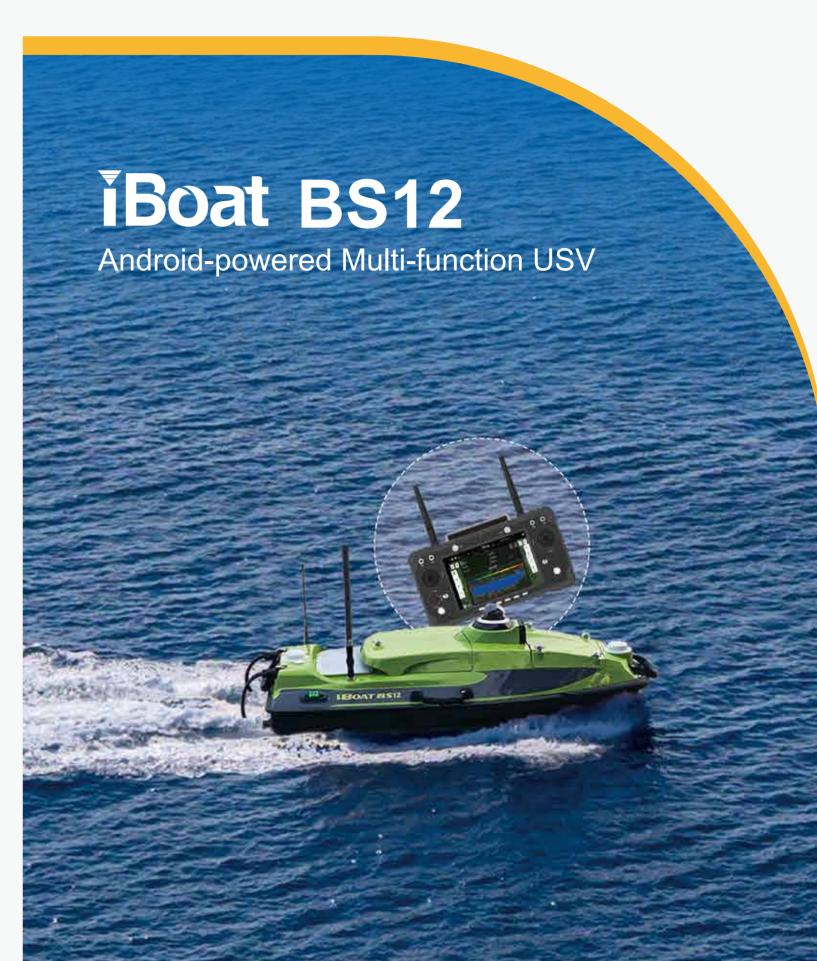


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iBoat BS12

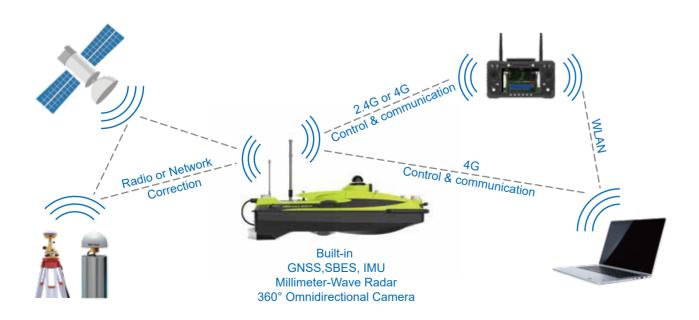
The iBoat BS12, a visionary creation by Hi-Target, emerges as the embodiment of sophistication and simplicity, expertly designed for effortless operation across a multitude of applications.

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 40km range 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, image sonar, 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

