

BOAT BS15

Vehicle Specifications	Dimension	1530mm*694mm*478mm 1530mm*1034mm*478mm	
	Weights	15 ~ 75 kg	
	Material	Carbon Fi-ber, Rubber Bumper	
	Waterproof	IP67	
	Anti-wave & Wind	4rd Wind Level & 3nd Wave Level	
	Anticollision Sensor	5-30 Meters Detection Distance	
	Camera	360° Omnidirectional Video	
	Safety Protection	Obstacle Avoidance; Shallow Water Warning; Low Battery Return; Disconnect Return	
	Propeller Type	Quick Release Culvert Propellers * 4	
	Power	1000 W	
Power and Electrical Parameters	Speed	0.1~6 m/s	
	Battery Capacity	29.04 V/34.3 Ah (Typical)	
	Battery Endurance	40 km@2 m/s. Battery pack can be added to boost range	
	Battery Safety	Multi-circuit equalization, Power Display, High-temperature/Over-current/Short-circuit Protection	
Communication & Control	Type	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 Broadcast	
	System	Android 7.0; Storage 5 GB; SD Card Supported	
	Dimension	272 mm*183 mm*94 mm	
Controller	Weights	1034 g	
	Display	7 inches	
	Battery Capacity	20000 mAh	
	Battery Endurance	6-20 h	
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	$\leq 0.2^\circ$	
	Timing Accuracy	≤ 20 ns	
Refresh Rate	200 Hz		
IMU	Position Accuracy	<1 m/30 s	
	Directional Accuracy	$\leq 2.1^\circ/h$	
	Control Software	Hi-Survey Boat Android APP Supports manual drawing, *kml & *dxf file import of sailing plans WEB management system to monitor USV system status in real time	



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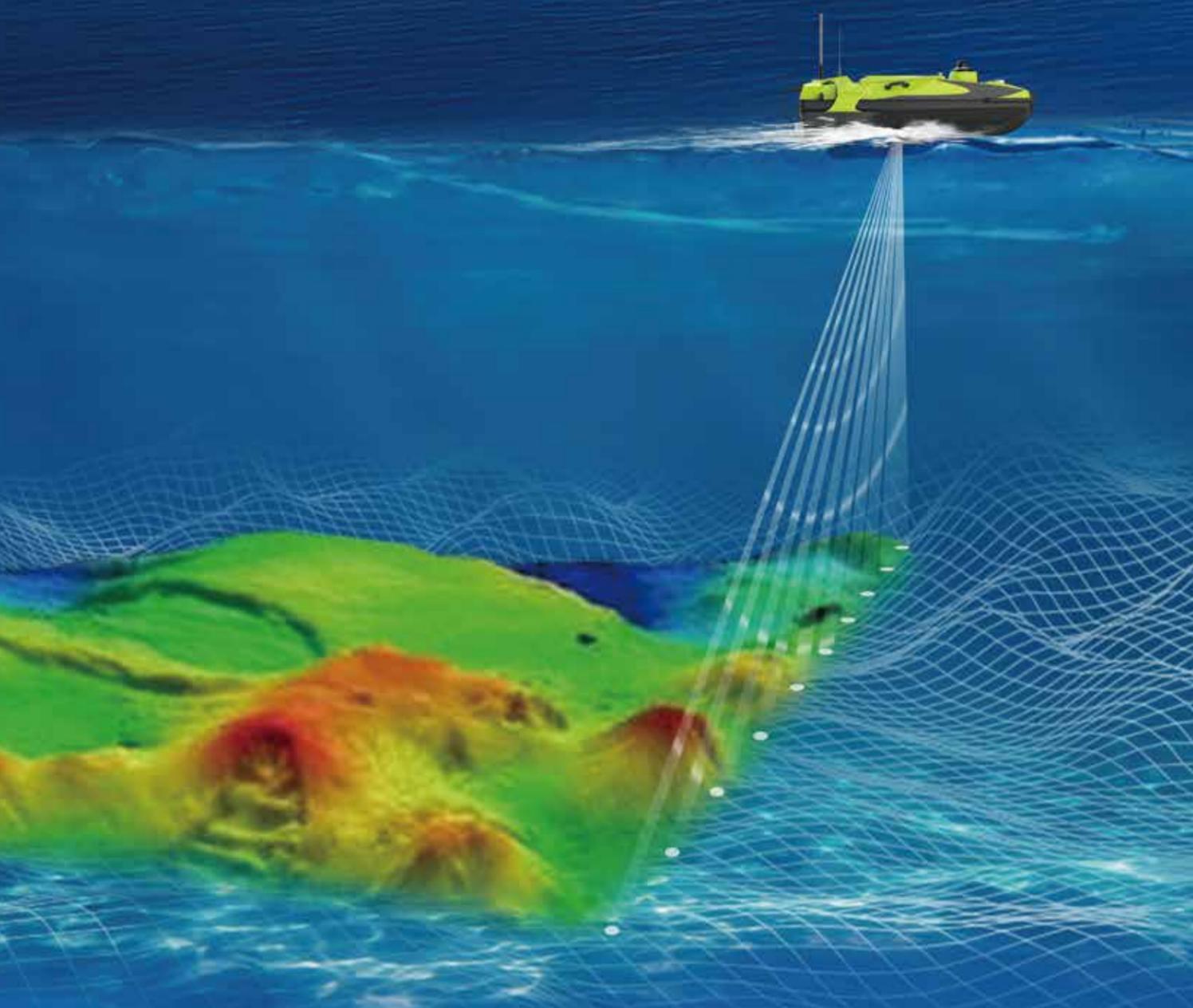
BOAT BS15

Multibeam Bathymetry USV

iBoat BS15 boasts a rugged IP67 hull constructed from corrosion-resistant carbon fiber and Kevlar, and the two main thrusters and two detachable side thrusters offer a range of sailing modes, making it adaptable to various complex water environments. It's designed to withstand the harshest conditions, ensuring its durability in the field.

Equipped with a high-precision positioning system, a directional GNSS receiver, and IMU, the iBoat BS15 maintains sub-meter positioning accuracy even in full satellite coverage. Safety is a priority, thanks to the inclusion of a 360° panoramic camera and a millimeter-wave obstacle avoidance radar, providing comprehensive protection during operations.

For high-precision measurement of underwater topography in inland lakes, rivers, and reservoirs, the configuration of iBoat BS15 and iBeam 8140P portable multibeam system provides accurate data collection and powerful and resilient solution for experts in need of precise underwater topographic information.



FEATURES

Flexible Assembly

4 thrusters can be freely matched to cope with various environments

Adaptive Water Flow

Precise hovering and efficient trajectory tracking. Fearless of 4 winds and 3 waves, follow predefined path with accuracy even in challenging environment.

Strong Expansion

Maximum load capacity of 60kg, can carry single and dual-frequency single-beam, ADCP, side-scan, multi-beam to adapt to different measurement needs.

Battery Management System

Three batteries working simultaneously, balanced power supply can be intelligently balanced power supply.



- Easily import and plot tracks for seamless navigation
- Get collision and shallow water warnings for added safety
- Differential correction data transmission supported
- IMU module to compensate for positioning accuracy
- 2.4G and 4G dual-channel connectivity makes no limitation on control distance
- Hull design minimizes water resistance and boosts stability using CFD technology
- Millimeter wave radar for collision prevention
- 360° Omnidirectional camera for recording photos and videos
- Exceeds IHO special order, CHS exclusive order & USACE New Work
- WEB management system to monitor USV system status in real time
- One-click connection, auto bathymetry data collection

APPLICATIONS



Underwater Topographic Survey



Hydrological Survey



Dredging & Navigation



Reservoir Storage Survey