CSYSTEM EXTENSION

Multiple applications, available for single beam echo sounder, ADCP and side scan sonar.



APPLICATIONS







Underwater topographic survey Hydrographic survey Underwater geomorphic survey

TECHNICAL SPECIFICATIONS

Hull - Parameters _	Dimensions	1100mm*520mm*300mm
	Weight of base boat	7kg (without battery)
	Hull material	Kevlar & carbon fiber high-strength composite
	Hull design	Heavy duty trimaran, low barycenter, low resistance, stable sailing
	Anti-wave&wind	3rd wind level and 2nd wave level
Power and Eletrical Parameters	Battery endurance	4h with 2m/s (The battery pack can be added to improve the battery life)
	Maximum speed	6 m/s
	Propulsion	Removable modular culvert propeller
	Propeller type	Brushless DC
	Direction control	Veering without steering engine and sailing reversely
	Camera	360° PTZ camera
Safety Guarantee	Auto-return	Auto-return while low battery or signal loss
	Operating system	Windows 10
Ashore Base Intelligent Controller Sounding Performance	Communicating mode	RF point to point in real-time
	Transmission range	2km radio communicating (4G optional)
	Navigation mode	Manual or auto-pilot
	Communicating mode	RF point to point in real-time
	Transmission range	2km
	Water proof	IP66
	Function	Real-time switching operation mode, control ship speed, steering and other functions, display the basic information
	Work frequency	200KHz
	Beam angle	5°±0.5°
	Sounding range	0.15m~300m
	Sounding accuracy	1cm ± 0.1%h (h=depth), 1cm depth resolution
	Storage	Computer-based real-time storage
Positioning Accuracy	RTK	Horizontal: ±8mm + 1ppm RMS Vertical: ±15mm + 1ppm RMS
	Beacon (optional)	.70
	SBAS	0.5m CEP
	Hull control system	Autopilot, hull parameter control, coordinate conversion , etc
System Software	HiMAX sounding software	Supporting parameter configuration, coordinate conversion, depth location collecting, post-processing (simulative depth and digital depth combined for conveniently judging false depth), sampling feature point randomly, RTK and tide document for tide gauging, multiple data formats for result output, etc



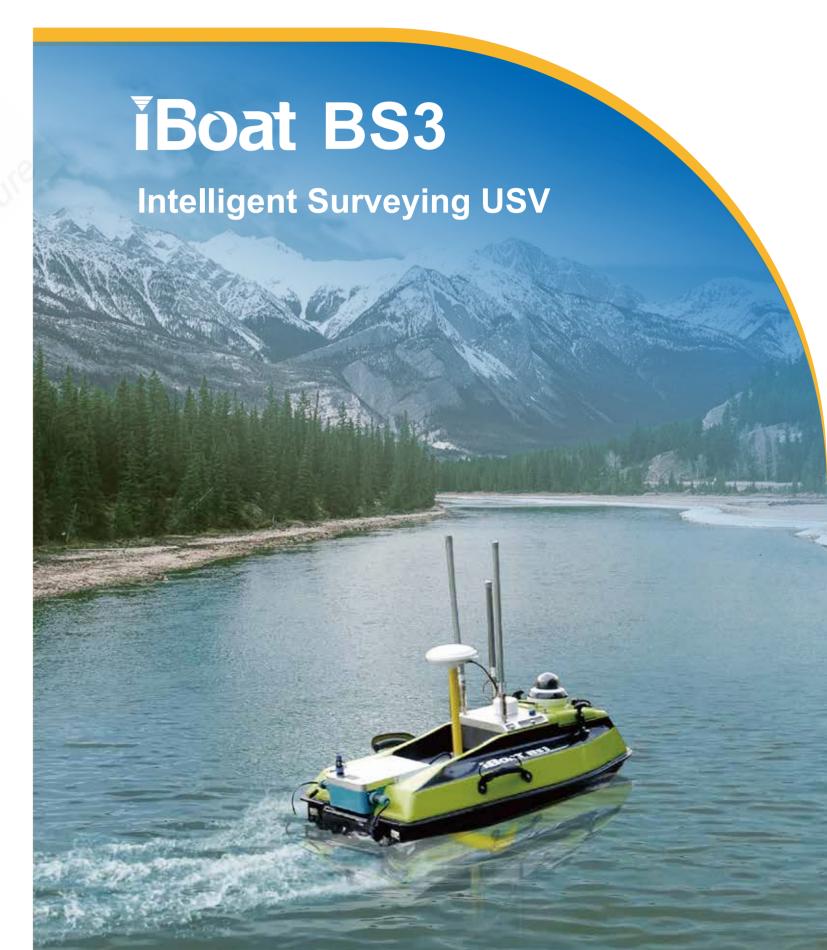


AUTHORIZED DISTRIBUTION PARTNER

Hi-Target Surveying Instrument Co. Ltd

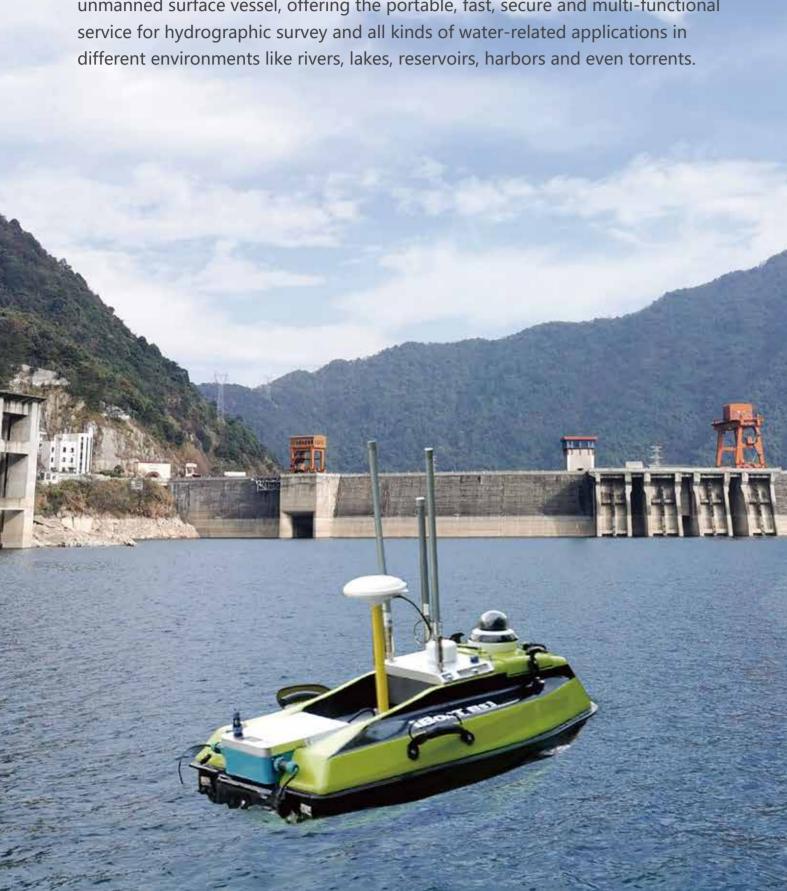
ADD: Building 13, Tian'An Technology Zone HQ Center, No. 555, North of Panyu RD, Panyu District, 511400 Guangzhou, China. www.hi-target.com.cn www.bd.hi-target.com.cn +86-20-28688296 info@hi-target.com.cn





SYSTEM INTRODUCTION

Hi-Target latest intelligent USV — iBoat BS3 is a swift, efficient and robust unmanned surface vessel, offering the portable, fast, secure and multi-functional



SYSTEM COMPOSITION AND FEATURES

Hull Structure

- Streamlined trimaran and low barycenter design to ensure low resistance and sailing stably
- Only 7kg weight Small and portable hull convenient for transmission Available placement in the car trunk
- Made of Kevlar & carbon fiber high-strength composite with strong resistance to impact



Power System



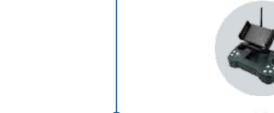
 Propellers are applied with culvert-design and protective shield outside to prevent aquatic plants and fishing net from twining.



 Innovate highly integrated modular design making the propellers easy to remove and change. Paralleled level with the boat and convenient for transmission and placement.



Auto-return while low battery or signal loss.

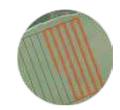


• The industrial controller with a large-capacity battery has more than 20 hours of battery life, and it is of easy use with one key to switch between manual and automatic mode while control distance reaches

Base System



• The base station adopts a new omnidirectional high gain antenna and built-in Wi-Fi to guarantee the communication distance not less than 2km.



• iBoat BS3 supports automatic operation, automatic navigation, auto-return to fixed point and users can switch between manual and automatic mode at any

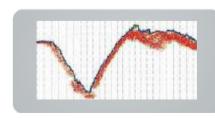
Hi-Target Sensors



• The Hi-Target HD-510 single beam echo sounder shows fantastic performance with its high-accuracy professional sounding module. The 0.15~300m sounding range adapts to all kinds of complex topographic surveying.



• With Hi-Target high-accuracy GNSS RTK module or DGPS beacon module, the location device support GPS/GLONASS/Galileo/BDS location. Besides, iBoat BS3 is equipped with multiple communication modes, such as UHF radio, beacon and SBAS.



• HiMAX surveying software is available for collecting, guiding and post-processing. The simulative depth and digital depth are combined for conveniently judging true water depth.