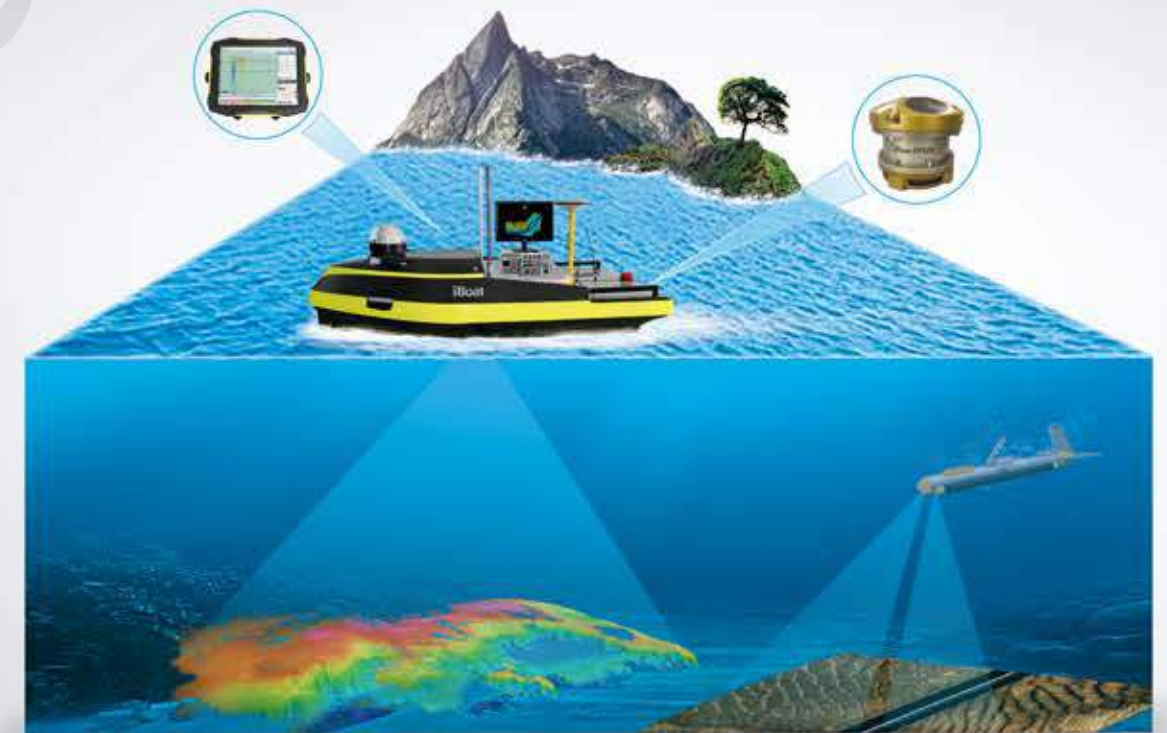


Hydrographic Solution

Product Series



Hi-Target AUTHORIZED DISTRIBUTION PARTNER

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Hi-Target Surveying Instrument Co., Ltd.

Address: Building 13, Tian'An Technology Zone, No. 555, Panyu North Rd., Panyu District, Guangzhou, China (511400)
TEL: +86-20-2288 3944 E-mail: info@hi-target.com.cn www.hi-target.com.cn



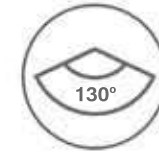
Optimized sounding technology



High-speed industrial computer platform



User-friendly surveying and navigation software



Wide-angle coverage up to 140°



Real-time roll stabilization maximizing usable swath



Compact integral structure and easy assembly



User-friendly display software



HD-Lite

Compact Singlebeam Echosounder



iBeam8120

Multibeam Echosounder



Specifications



Frequency	200KHz
Power	800W
Depth Range	0.15~200m
Resolution	±10mm+0.1%h, 1cm
Draft	0.0m ~ 15m
Velocity Range	1370~1700m/s,resolution 1m/s
CPU	1.92GHz,dual core
Memory	2G
Sampling Rate	30Hz
Storage	16G SSD
Display	38.1cm,resolution 1280×1024@60Hz
Interface	3*RS232,3*USB
VGA	Available
Temperature	-20°C ~ 70°C
Weight	5.8kg

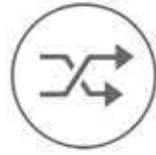
Specifications



Frequency	200KHz
Swath coverage	30°~140°(agile)
Resolution	1cm
Angle	Across-track beam angle 2° Along-track beam angle 1.5°
Number of beams	256
Range	0.5m~300m
Depth rating	50m
Ping rate	Up to 30Hz
Work mode	Equiangular mode Equidistant mode
Roll stablization	±10°
Input voltage	220VAC/50Hz
Power	200W
"Temperature (Work/Storage)"	Sonar system: -2°C~40°C/-30°C~55°C Transducer: -2°C~30°C/-30°C~55°C
Transducer cable length	Standard 15m (Optional)
Transducer weight	12.5Kg(in air)
Transducer size	Emitting unit : 240x120x130mm Receiving unit : 320x110x140mm



Portable Double-M design with brushless DC



Manual or autopilot switchable at any time



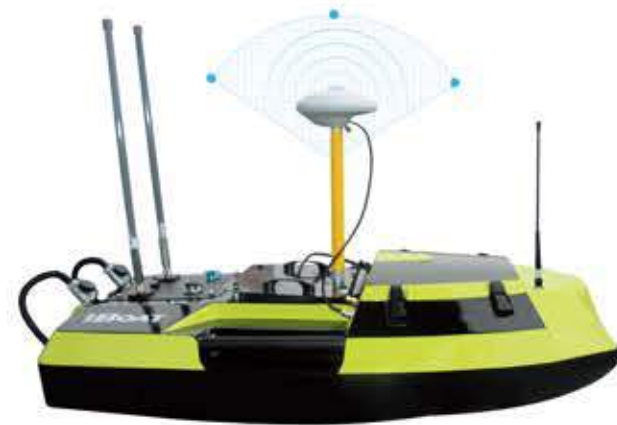
Professional sounding module



Auto-return while low battery or signal interruption

iBoat BS2

Unmanned Surface Vehicle



Specifications



Hull Parameters	Dimensions	1050mm*550mm*270mm
	Weight of base boat	14KG
	Hull material	High-strength Kevlar and carbon fibre composite
	Hull design	Double M shape, low barycenter, small resistance, stable sailing
Power and Electrical Parameters	Anti-wave&wind	3rd wind level and 2nd wave level
	Battery endurance	4h@2m/s (The battery pack can be added to improve the battery life)
	Top speed	4.5m/s
	Propulsion	Detachable modular ducted propeller
	Propeller type	Brushless DC
Safety Guarantee	Direction control	Veering without steering engine and sailing reversely
	Auto-return	Auto-return while low battery or signal interruption
Shore Base	OS	Windows
	Communicating mode	RF point to point in real-time
	Transmission distance	1,000m
	Navigation mode	Manual or autopilot, switchable at any time
Intelligent Controller	Communicating mode	RF point to point in real-time
	Transmission Range	1,000m
	Water Proof	IP65
Sounding Performance	Function	Real-time switching operation mode, control ship speed, steering and other functions, display the basic information of unmanned ship in real time
	Work frequency	200KHz
	Beam angle	5°±0.5°
	Sounding range	0.15m-300m
Positioning Accuracy	Sounding Accuracy	1cm±0.1%h (h=Depth) , 1cm depth resolution
	RTK	Horizontal: ±8mm+1ppm RMS Vertical : ±15mm+1ppm RMS
	Beacon(optional)	0.5m(1δ)
System Software	SBAS	1.0mCEP
	Hull control system	Autopilot, hull parameter control, coordinate conversion and etc
	HiMAX sounding software	Support parameter configuration, coordinate conversion, depth location collecting, post-processing(simulative depth and digital depth combining for conveniently judging false depth), sampling feature point randomly, RTK and tide document for tide sampling, multiple data formats for result output and etc



Professional wide-band signal processing technology



Long range profiling coverage



Multiple internal sensors

iFlow RP600

Acoustic Doppler Current Profiler



Specifications



Frequency	600kHz
Transducer Type	Piston
Beam	4 Beams Janus, 20°
Profiling Range(Velocity)	±5m/s(Standard), ±20m/s(Optional)
Profiling Range(Distance)	1~75m
Velocity Resolution	1mm/s
Number of Cells	1-256
Cell Size	0.1~4m
Update Frequency	1~2Hz
Velocity Accuracy	0.25%±0.25cm / s
Operating Mode	Wide-band
Bottom Detection Range	0.8~90m
Internal Sensors	
Temperature: Range / Accuracy / Resolution	-10°C~+60°C/±0.1°C/0.001°C
Heading: Range / Accuracy / Resolution	0°~360°/±0.5°/0.001°
Roll/Pitch: Range / Accuracy / Resolution	±30° / ±0.2° / 0.001°
Pressure: Range / Accuracy / Resolution	0~200m / 0.5% FS / 0.01m
Input Voltage	9~18VDC(Standard 12V)
Power	3.5W(Average), 0.5W(Sleep), 30W(Peak)
Interface	RS-232&RS-422
Baud Rate	1200-115200
Software	iFlow Flow Measurement Software
Internal Storage	4G
Rating Depth	200m



Simultaneous independent dual-frequency operation



Supports both CW and wide-band CHIRP pulses



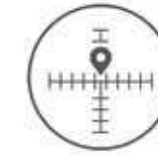
User friendly software compatible with standard formats



Meets IHO & NOAA Survey Standards



Split design on GNSS antenna and mainframe



High accuracy heading and positioning



Supports GPRS and UHF



USB raw data storage enables full-day data collection

iSide 1400

Side Scan Sonar System



Specifications

Towfish Specification	Frequency	100KHz&400KHz,simultaneous dual frequency
	Pulse type	CW/FM
	Pulse width	20 ~ 1000µs(CW) 1 ~ 4ms(FM Chirp)
	Horizontal angle	0.7°@100KHz 0.2°@400KHz
	Vertical angle	45°
	Depression angle	10°, 15°, 20° optional
	Resolution	2.5cm@100KHz 1.25cm@400KHz
	Range	600m@100KHz 200m@400KHz
	Depth rating	450m
	Towfish dimension	105mm*1300mm(diameter*length)
	Structure	316 Iron
	Weight	30kg
	Optional	Internal sensor
Cable		Kevlar strengthened cable, standard 50m
Deck Unit	Power	40W
	Optional	250m kevlar strengthened cable
	Winch	Electronic/manual Dimension: 370mm*300mm*310mm Weight: 13Kg
Software	Input power	220VAC/24VDC
	Output	100M Ethernet
	Dimension	172mm*122mm*72mm
	Weight	0.85KG
	Waterproof	IP65
Software	Operating system	Windows
	Collecting system	HiMAX SSS
	Data format	OTSS/XTF
	Navigation data input	NMEA-0183

K9

Heading and positioning RTK receiver



Specifications

Channel	220 channels BDS B1, B2 GPS L1 C/A, L2E, L2C, L5 GLONASS L1 C/A, L1 P, L2 C/A L2 P SBAS WAAS, MSAS, EGNOS GALILEO (reserved for upgrade)
Positioning accuracy	Static: Horizontal ±2.5mm+1ppm Vertical ±5mm+1ppm RTK: Horizontal ±8mm+1ppm Vertical 15mm+1ppm DGPS(SBAS) 1.0m CEP
Heading accuracy	2m baseline 0.09° 10m baseline 0.05°
Initial time	< 30s
Position output rate	1HZ, 2HZ, 5HZ, 10HZ, 20HZ
Differential format	CMR, CMR+, RTCM 2.1, 2.2, 2.3, 3.0, 3.1
Navigation output format	ASCII NMEA-0183 GSV, AVR, RMC, HDT, VGK, VHD, ROT, GGA, GSA, ZDA, VTG, GSTPJT, PJK, BPQ, GLL, GRS, GBS and Trimble GSOFF
Power input	7~36V DC
Working temperature	-30°C~60°C
Storage temperature	-30°C~65°C
Weight	1.0 KG
Dimension	225mm*138mm*70mm
Waterproof level	IP67

