HI-TARGET
Surveying the World, Mapping the Future.

Hydrographic Solution

Product Series

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Hi-Target Surveying Instrument Co., Ltd.
Addess: 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

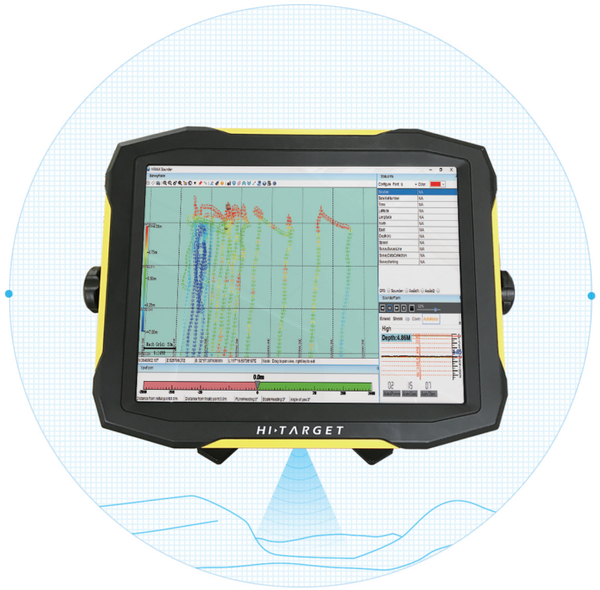
Optimized sounding technology

High-speed industrial computer platform

User-friendly surveying and navigation software

HD-Lite

Compact Singlebeam 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	2*RS-232,3*USB
VGA	Available
Temperature	-20℃~70℃
Weight	5.8kg

Wide-angle coverage up to 130°

Real-time roll stabilization maximizing usable swath

Compact integral structure and easy assembly

User-friendly display software

iBeam8120

Multibeam Echosounder

Specifications

Frequency	200KHz
Swath coverage	30°~130°(agile)
Resolution	1cm
Angle	Across-track beam angle 2°
	Along-track beam angle 1.5°
Number of beams	512
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℃~40℃/-30℃~55℃
	Transducer：-2℃~30℃/-30℃~55℃
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

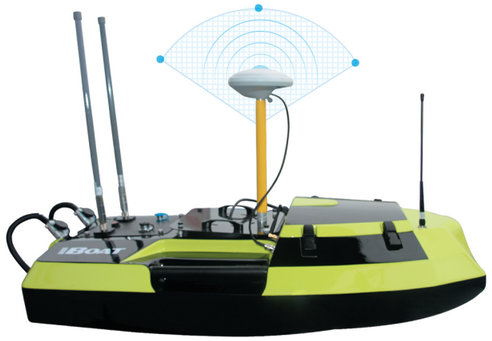
Manual or autopilot switchable at any time

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
	Anti-wave&wind	3rd wind level and 2nd wave level
Power and Eletrical Parameters	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
	Direction control	Veering without steering engine and sailing reversely
Safety Guarantee	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	2km
	Navigation mode	Manual or autopilot, switchable at any time
Intelligent Controller	Communicating mode	RF point to point in real-time
	Transmission Distance	2Km
	Water Proof	IP65
	Function	Real-time switching operation mode, control ship speed, steering and other functions, display the basic information of unmanned ship in real time
Sounding Performance	Work frequency	200KHz
	Beam angle	5°±0.5°
	Sounding range	0.15m-300m
	Sounding Accuracy	1cm±0.1%h（h=Depth），1cm depth resolution
Positioning Accuracy	RTK	Horizontal：±8mm+1ppm RMS Vertical　：±15mm+1ppm RMS
	Beacon(optional)	0.5m(1δ)
	SBAS	1.0mCEP
System Software	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℃~+60℃/±0.1℃/0.001℃
	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

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
	Internal sensor	Attitude/pressure/depth sensors
	Cable	Kevlar strenghened cable , standard 50m
	Power	40W
Optional	Optional	250m kevlar strenghened cable
	Winch	Electronic/manual Dimension : 370mm*300mm*310mm Weight : 13Kg
Deck Unit	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

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

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、GGK、GGA、GSA、ZDA、VTG、GSTPJT、 PJK、BPQ、GLL、GRS、GBS and Trimble GSOF
Power input	7~36V DC
Working temperature	-30℃~60℃
Storage temperature	-30℃~65℃
Weight	1.0 KG
Dimension	225mm*138mm*70mm
Waterproof level	IP67

IP67