



High Efficient For Large Area Bathymetric Survey

MS8240-IDH

Wideband Multi-frequency Multibeam Echo Sounder with Dual Sonar Head

Beijing Hydro-Tech Marine Technology Co.,Ltd.

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Wideband Multi-frequency Multibeam Echo Sounder with Dual Sonar Head

MS8240-IDH multibeam system is a high-accurate bathymetry solution for various applications such as waterway transportation, dredging, island and reef survey and shoreline maintenance. The wide swath coverage and high operating efficiency can complete underwater 3D topographic survey task in short period of time, improving operational efficiency and significantly reducing navigational safety hazards for vessels within survey operation area.



Features



Efficiency Upgrade

Dual sonar head doubles swath coverage twice than single unit, significantly reducing operation time.



Adaptivity

Depending on the different survey environments and requirements, both beamwidth and frequency are adjustable to obtain better survey results.



Automated Parameters

Simplify field operation procedures to truly make underwater exploration work better.

Applications



Large Area Shallow Sea Water
Investigation and Research



Offshore Operation,
Waterway Survey



Water Resource, Hydrology,
Port Maintenance ,
Wind Power Station Maintenance



Oil & Mineral Exploration

Specifications

Sonar Specifications

Operating Frequency	150 ~ 450kHz 500k,600k,700kHz
Number of Beam	1024(Combined)
Cross Track Beamwidth	0.3°@700kHz(Optional) 0.5°@400kHz/1°@200kHz
Along Track Beamwidth	0.6°@700kHz(Optional) 1°@400kHz/2°@200kHz
Swath Coverage	215°
Depth Range	0.2 ~ 500m+*
Depth Resolution	0.75cm
Max Ping Rate	60Hz
Sounding Mode	Equiangular / Equidistant
Signal Type	CW/Chirp
Pulse Width	30us ~ 8ms
Depth Rating	50m

Key Features

Near-Field Focus	Supported
Bottom Tracking	Supported
Water Column Imaging	Supported
Real-time Roll Stabilization	Supported
Muddy Water Bathymetry	Supported

INS/GNSS Specifications

Model	POS-15	POS-08
Heading Accuracy	0.015°,4 mBaseline	0.01°,4 mBaseline
	0.03°,2 mBaseline	0.02°,2 mBaseline
Pitch/Roll Accuracy	0.02°(RTK)	0.01°(RTK)
	0.015°(PPK)	0.008°(PPK)
Heave Accuracy	5cm,5%Real time,2cm,2%(TrueHeave)	
Horizontal Position	±8mm+1ppm(RTK,PPK),10cm(Satellite station differential,PPP),0 . 5~2m(DGPS)	
Auxiliary Position Data	1. Qianxun RTK,CORS Support 2. PPK PP-RTX Supported	

Mechanical Specifications

Sonar Dimension	490 × 455 × 145mm(Single unit)
Sonar Weight	25KG (Single unit in air)
Topside Dimension	200 × 145 × 76.5mm
Topside Weight	1.9kg(Single unit)
Operating Tempature	-2 ~ 40 ℃
Storage Temperature	-20 ℃ ~ 55 ℃
Power Supply	DC 10 ~ 32V/AC 110 ~ 240V
Consumption	90W~140W
Cable Length	15m(Optional8m/30m)

Software Options

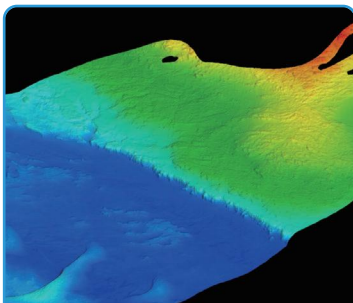
Acquisition	HydroSurvey2024
Third Party Post Processing	Hypack, Qimera, EIVA, BeamworX
Third Party Acquisition	Hypack, Qinsy EIVA, BeamworX Caris

Hardware Options

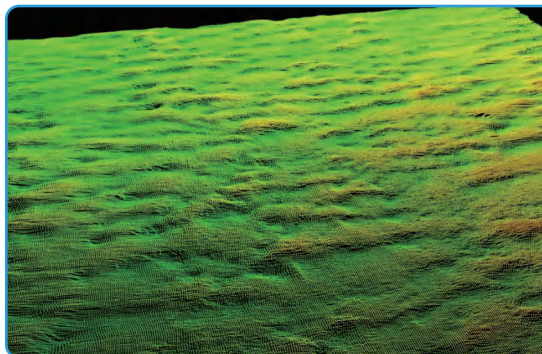
SVS	Built-in SVS1500M
SVP	Optional SVP1500
INS	OptionalPOS15, POS08
GNSS	Built-in POS INSTrimble GNSS

*Above Specifications are related to Survey Environment

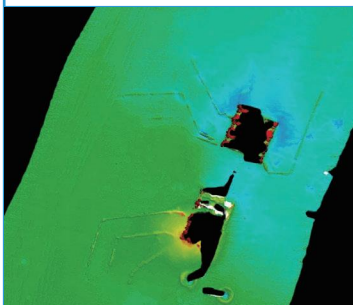
Case Studies



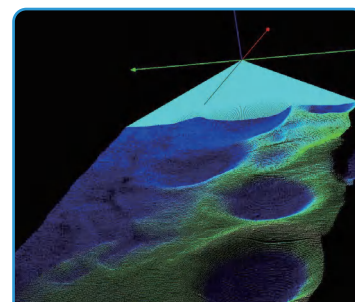
Shoal Detection



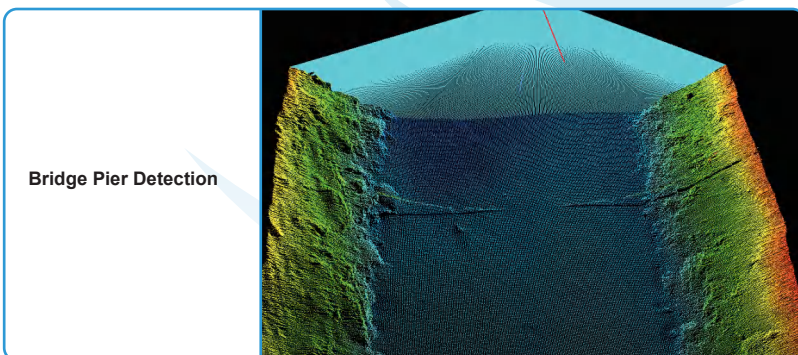
**Large area
waterway survey**



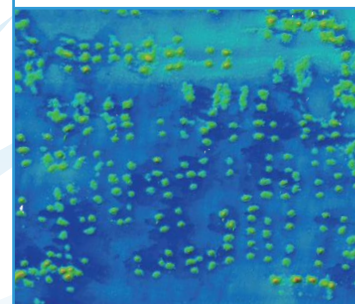
**Offshore Construction
Platform Monitor and
Investigation**



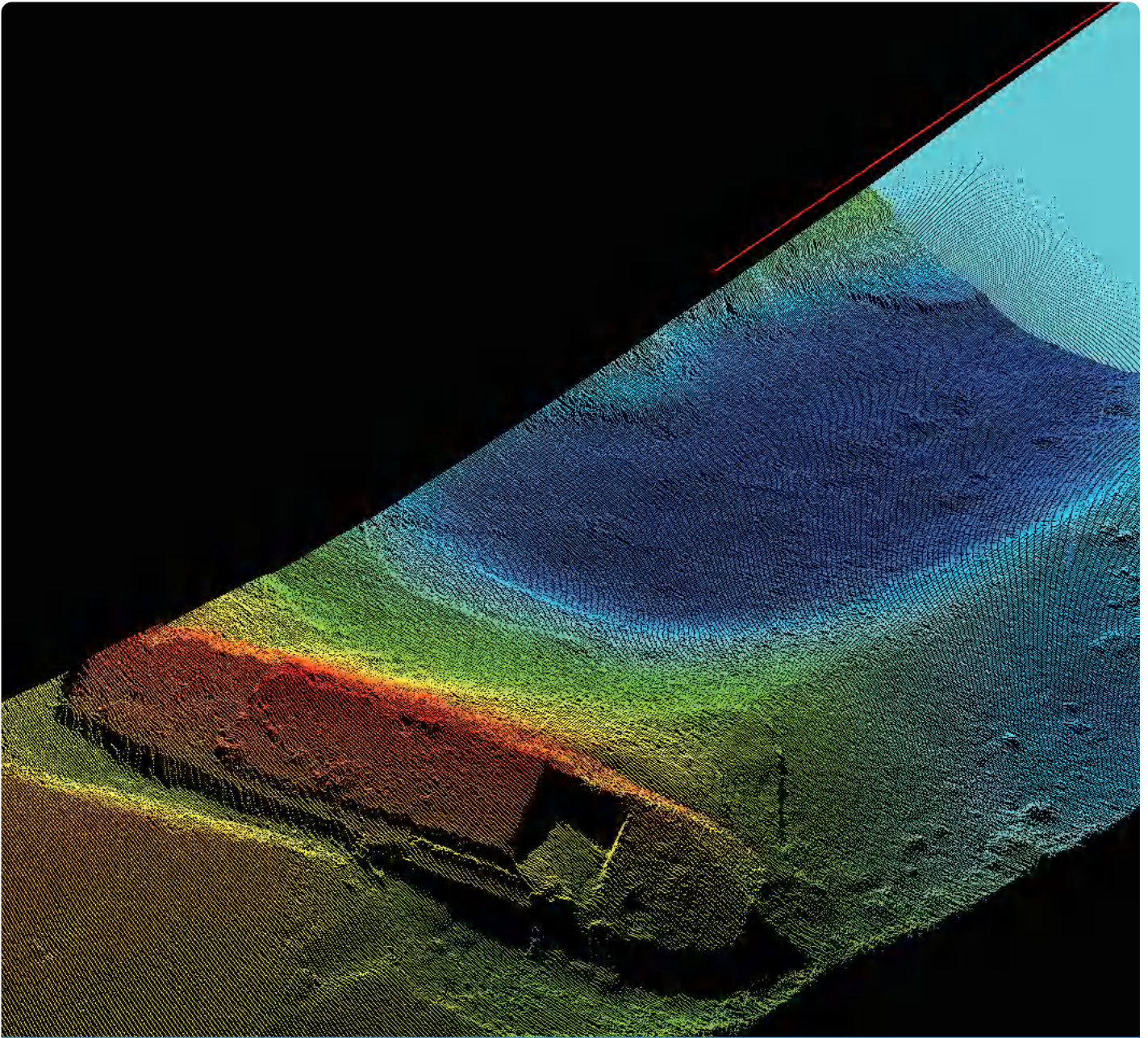
Shallow Pit Detection



Bridge Pier Detection



Aquafarm Detection



Shipwreck Survey



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