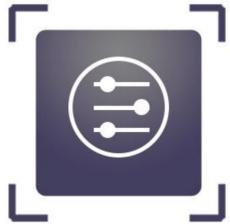
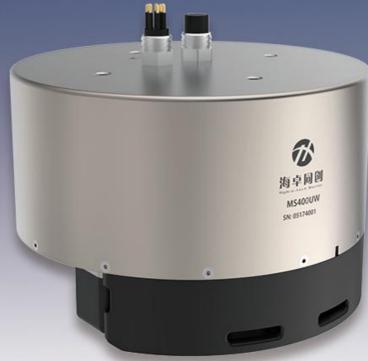


MS400UW

Integrated Multibeam Echo Sounder



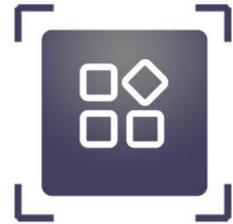
Real-time Adjustment

Continuously adjustable at a step of 10Hz, perfectly balance the relationship of measurement accuracy and operating distance.



Anti-interference Capability

Adopting frequency modulation technology which has strong anti-interference ability and can work stably in complex underwater environments.



Multi-function

With a variety of measurement functions such as water depth measurement, seabed terrain rendering, object detection, etc. to meet the needs of different application scenarios.

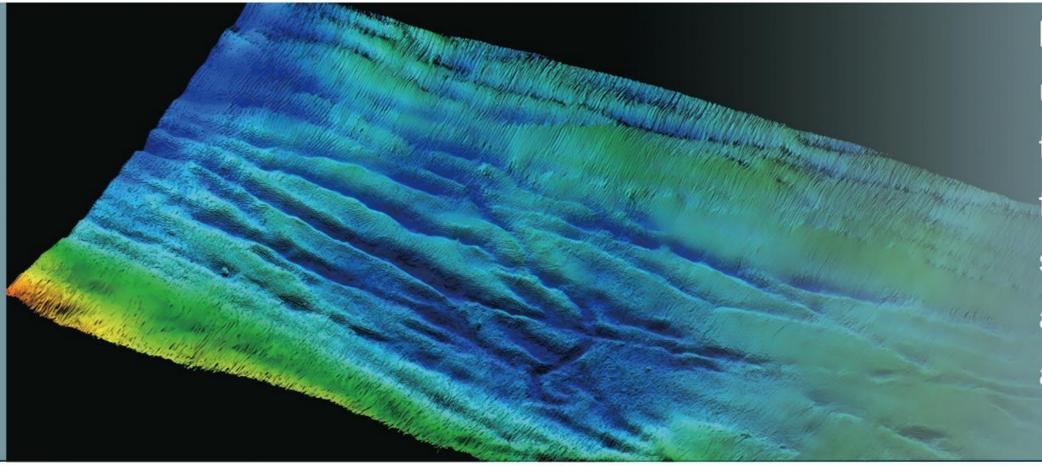


Beijing Hydro-Tech Marine Technology Co.,Ltd.

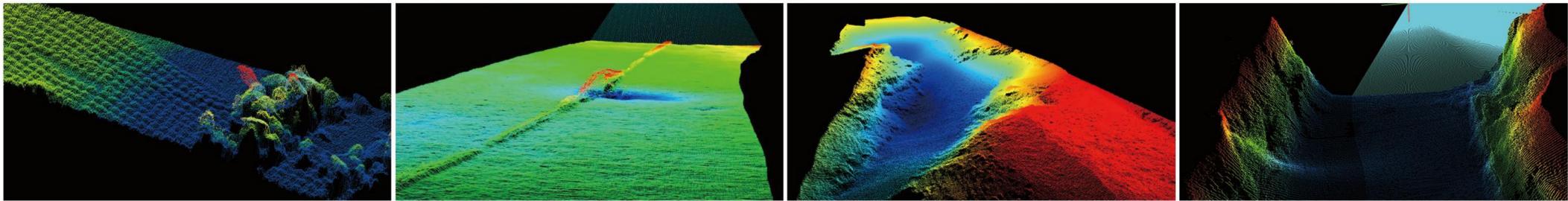


◀ Learn More

MS400UW Integrated Multibeam Echo Sounder



MS400UW is an advanced multibeam systems capable of continuous frequency adjustment between 150kHz and 450kHz operation. Built in SVS, IMU & GNSS, the system combines diversified functions, high resolution depth accuracy with user-friendly software. Engineered to optimize performance in complex water and seabed environments, it delivers sub-centimeter bathymetric accuracy.

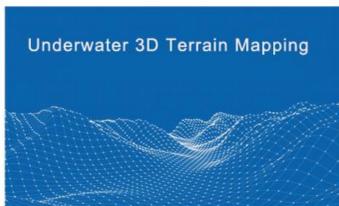


Recommendations

- Multiple INS Integration Option
- In-Built SVS IMU & GNSS
- Simple port setup
- Super compact and configurable



Applications



Technical Specifications

Working Frequency	150 ~ 450kHz, support 500k, 600k and 700kHz
Number of Beams	1024
ACross Track Beam Width	1°@400kHz 2°@200kHz/0.6°@700kHz
Along Track Beam Width	2°@400kHz 4°@200kHz/1.2° @700kHz
Swath Coverage	143°
Sounding Depth	0.2-350m+*
Depth Resolution	0.75cm
Max Ping Rate	60Hz
Sounding Mode	Equiangular / Equidistant
Signal Type	CW/Chirp
Pulse Width	30μs – 8ms
Max Working Depth	50m

* Depending on environmental conditions.



Features

Near Field Focusing	Yes
Bottom Tracking	Yes
Water Column	Yes
Real-time Roll Stabilization	Yes
Muddy Water Survey	Yes
Auto Survey	Yes



Physical Specifications

Transducer Size	φ220 × 184mm
Transducer Weight	7.6kg
Deck Unit Size	200 × 145 × 91mm
Deck Unit Weight	2.15kg
Working Temperature	-2°C~40°C
Storage Temperature	-20°C~55°C
Power Supply	DC 10-32V / AC 110~240V
Power Consumption	60W-80W



Software

Display & Control Software	HydroQuest
Navigation & Data Collection Software	HydroNavi
Compatible with	Hypack, Qinsy, BeamworX EIVA



Auxiliary Sensors

Sound Velocity Sensor	SVS1500M (Built-in)
Sound Velocity Profiler	SVP1500 (Optional)
IMU Sensor	POS25(Built-in)
GNSS Module	POS25(Built-in)



Adaptable Positioning & Attitude Specifications

Optional positioning and attitude equipment model	POS08	POS15	POS25
Heading Accuracy(GNSS Effective)	0.01°, 4mBase Line 0.02°, 2mBase Line	0.015°, 4mBase Line 0.03°, 2mBase Line	0.06°, 4mBase Line 0.08°, 2mBase Line
Attitude Accuracy(GNSS Effective)	0.01°, Real-Time RTK 0.008°, processed	0.02°, Real-Time RTK 0.015°, processed	0.03°, Real-Time RTK 0.025°, processed
Heave Accuracy	5cm or5%h,2cm or2%h		
Horizontal Positioning Accuracy	±8mm+1ppm(RTK. PPK), 10cm(PPP. Satellite station difference), 2-5m(DGPS)		
Auxiliary Positioning Data	1. Support Qianxun RTK CORS 2. PPK PP-RTK supported		