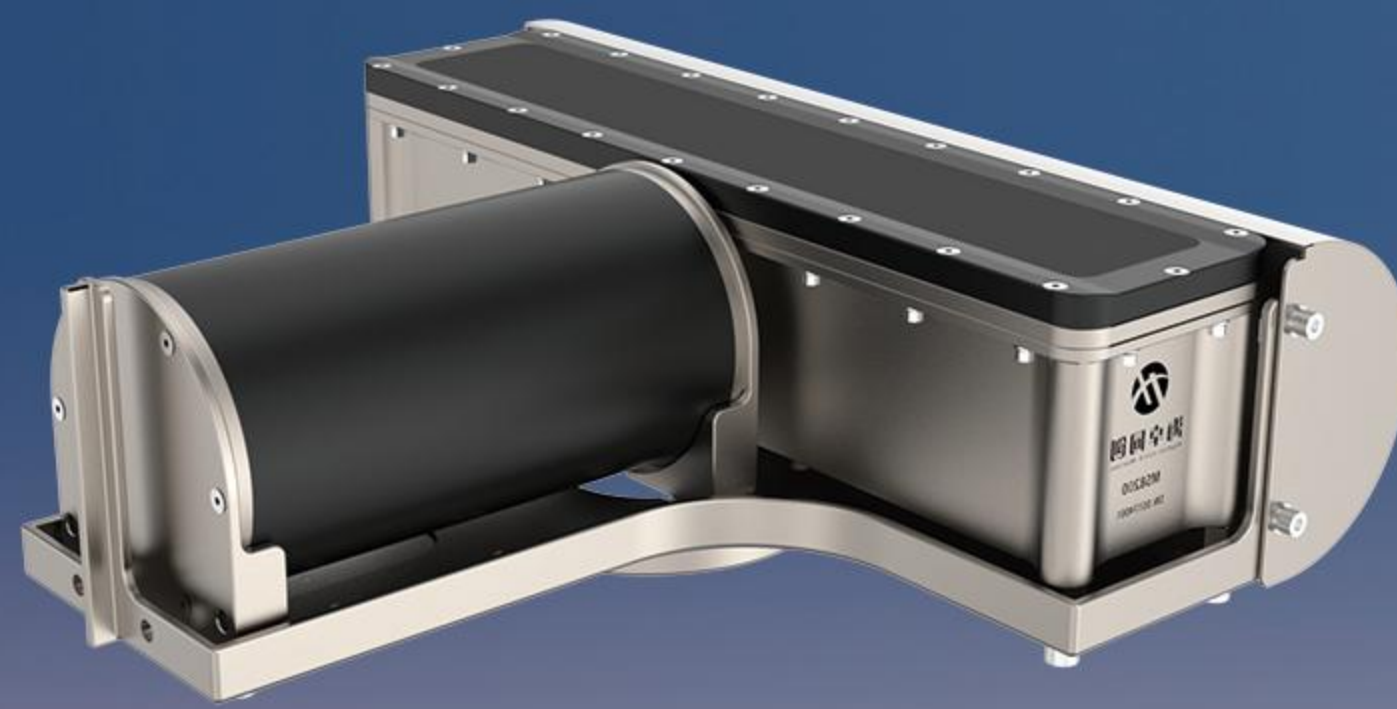# Hydro-Tech MS8240

Multibeam Echosounder

Multifunction All in One Multibeam Sonar
Transcendent Algorithm for Various
Hydrological Condition.

Reliable Surveying

- 160° ultra wide swath sector
- 8 times depth coverage
- Up to 60Hz ping rate
- 500+ sounding depth

Multi-applications

- 3D Underwater Survey
- Side Scan Imaging
- Water Column Imaging
- Multi-target Monitoring
- Built in IMU (optional)

Muddy Water Optimization

Applicable for offshore
coasta area,waterway,
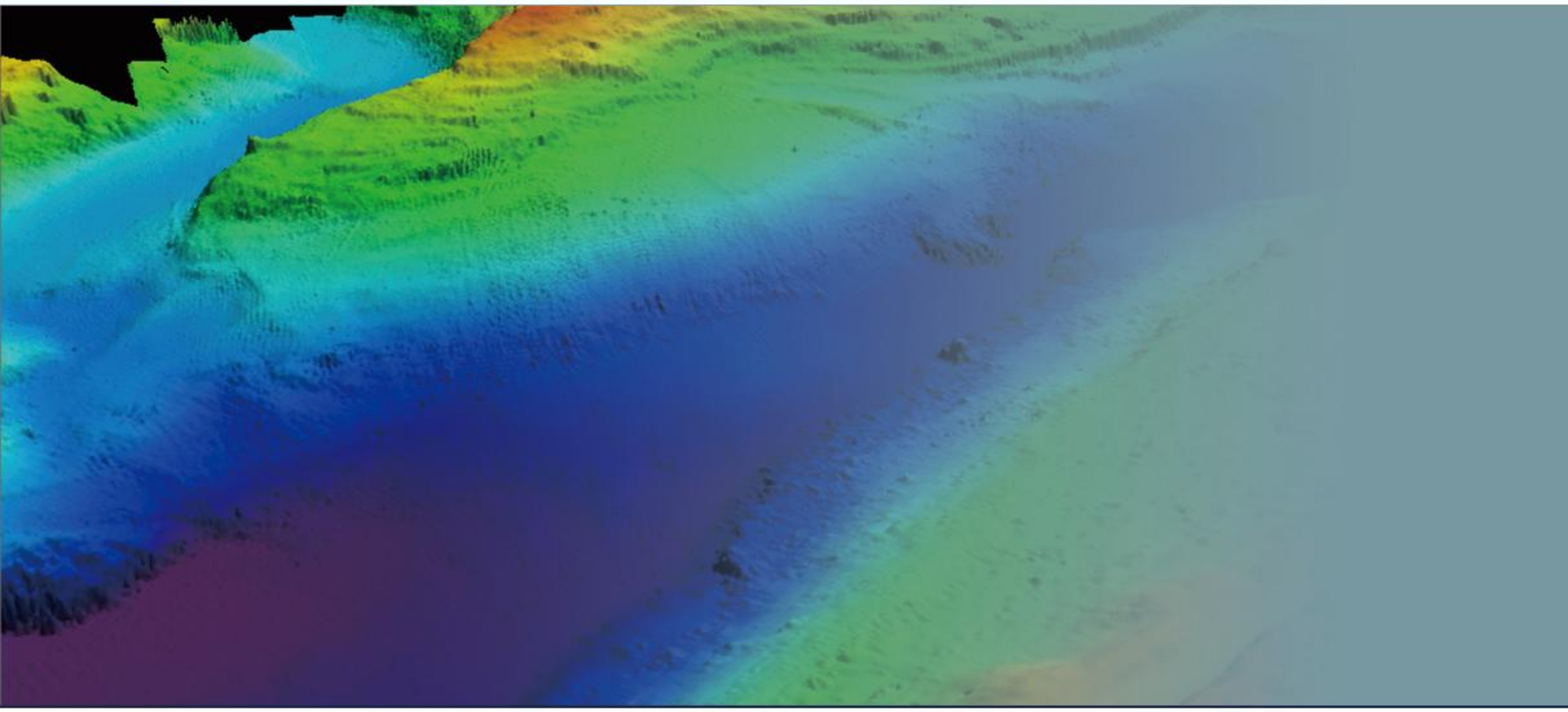high sediment water
survey area .

Hydro-Tech
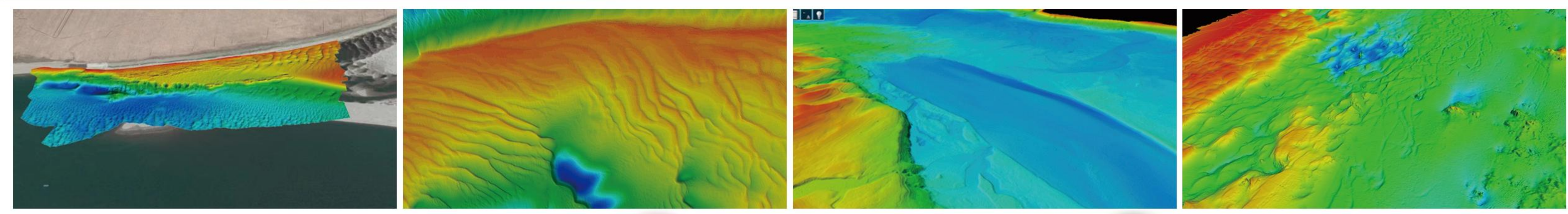**Beijing Hydro-Tech Marine Technology Co.,Ltd**

Hydro-Tech MS8240 Multibeam Echosounder

MS8240 is born to cater complex underwater terrain changes and can obtain clean and high-resolution data quality. This multibeam sonar can output 150~450khz continuous frequency conversion and also supports 700khz ultra-high frequency signal output, which can capture ultra-high resolution 3D topographic data and present excellent details for your survey work.

Applications

- Large scope shallow water research and investigation.
- Offshore and waterway survey.
- Water conservation, harbor or windmill operation and maintenance.
- Oil mining exploration and other large industrial applications.

Offshore Survey

Navigation Check

Resource Exploration

Engineering Project

Vehicle

Small and medium size vessel

Specialized survey vessel

Technical Specification

Selectable frequencies	150 ~ 450kHz,700kHz(Optional)
Number of soundings	512
Cross track beamwidth	0.3°@700kHz 0.5°@400kHz 1°@200kHz
Along track beamwidth	0.6°@700kHz 1°@400kHz 2°@200kHz
Swath coverage	160°
Sounding depth	0.2-500m
Sounding resolution	0.75cm
Max ping rate	60Hz
Sounding pattern	CW/Chirp
Type of signal	CW/Chirp
Pulse width	30us-8ms
Max operating depth	50m

Special Feature

Near field focusing	Yes
Bottom tracking	Yes
Water column imaging	Yes
Real-time roll stabilization	Yes
Muddy water survey	Yes

Physical Specification

Sonar dimension	499 × 456.5 × 147mm
Sonar weight	23.35kg
Topside dimension	200 × 145 × 75.5mm
Topside weight	1.9kg
Operating temperature	-2℃ ~ 40℃
Storage temperature	-20℃ ~ 55℃
Power supply	DC 10 ~ 32V AC 110 ~ 240V
Power consumption	70W ~ 90W
Sonar cable length	15m

Software configuration

Navigation and data logging	HydroNavi
Compatible with	Qinsy,Hypack, EIVA
Data processing	Qimera, Hypack, EIVA

Auxiliary Equipment

Sound velocity sensor	Built-in SVS1500M
Sound velocity profiler	Optional SVP1500
Inertial navigation system	Optional POS15 or POS25
Positioning	POS Built inTrimble GNSS

Optional positioning and attitude instrument specs

Model	POS-S08	POS-S15
Heading accuracy (GNSS enabled)	0.01°,4 mmBase Line	0.015°,4 mBase Line
	0.02°, 2 mmBase Line	0.03°, 2 mBase Line
Attitude accuracy (GNSS enabled)	0.01°,Real-Time RTK	0.02°,Real-Time RTK
	0.008°,processed	0.015°,processed
Heave accuracy	5cm or5%h,2cm or2%h(TrueHeave)	
Horizontal positioning accuracy	±8mm+1ppm(RTK/PPK),10cm(PPP Satellite station difference), 2-5m(DGPS)	
Auxiliary positioning accuracy	1.Support Qianxun RTK CORS 2.PPK PP-RTK supported	

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