

Specification

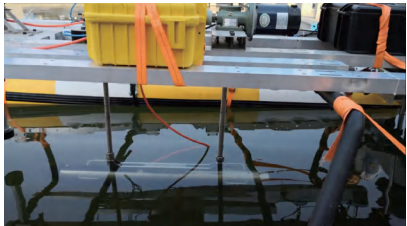
Sonar Specification	
Operating Frequency	300KHz/600kH2(SS3060)400kHz/900kHz(SS4090)
Max Slant Range	230m @300kHz/120m @600kHz(SS3060)
	150m @400kHz/75m @900kHz(SS4090)
Horizontal Beam Width	0.28°@300kHz/0.26@600kHz(SS3060)
	0.21°@400kHz /0.2°@900kHz(SS4090)
Vertical Beam Width	50°
Along Track Resolution	400kHz:
	0.18m @50m; 0.27m @75m;
	0.37m @100m
	900kHz:
	0.07m @20m; 0.17m @50m;
	0.26m @75m;
Across Track Resolution	2.5cm @300kHz/1.25cm @600kHz
	1.25cm @400kHz1cm @900kHz
Signal Type	CW/Chirp
Depth Rating	300m
Hardware Options	Pressure sensor, roll, pitch & heading (Standard)

*All spec. above is subject to change without notice

Mechanical Specifications	
Towfish Size	φ100mm x 1200mm
Towfish Weight	25Kg
Topside Dimension	214mm × 150mm × 64mm
Topside Weight	1.3kg
Power supply	DC 20 ~ 30V AC 110 ~ 240V
Consumption	20W ~ 60W

Software Options	
Sonar Control	HydroSonar
Post-processing	Compatible with Hypack or SonarWiz

Key features	
GNSS data import	Supported
Adaptive signal regulation	Supported
Water column imaging	Supported
Variable aperture	Supported
4K HD display	Supported
Hardware and software image equalization	Supported



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◀ Learn More



Suitable for various water depths to secure survey efficiency.

SS3060/SS4090

Dual-frequency High-resolution Wideband Side Scan Sonar

Beijing Hydro-Tech Marine Technology Co.,Ltd.

SS3060/SS4090

Dual-frequency High-resolution Wideband Side Scan Sonar

SS3060/4090 offers synchronous dual-frequency operation, combining low-frequency wide-swath scanning with high-frequency high-resolution imaging. Its towfish integrates real-time attitude and pressure sensors, and features a detachable tail fin to prevent net entanglement.



Features



Dual-Frequency Independent & Sync Operation

Features simultaneous transmission and reception of both frequencies which can realize independent or synchronized operation.



Wide Swath & HD Imaging

Innovative Variable Aperture Dynamic Focusing technology enables clear, large-area imaging while maintaining high near-field resolution, ensuring consistent clarity either in near or far range.



Wide-area scanning & high-resolution imaging

Innovative image equalization technology combine with dual frequencies ensure image quality from far and near distance for both general and refined scanning. Integrate wide-area scanning and high-resolution imaging for complete and delicate seabed mapping.

Applications



Shallow/Inland Water
Areas Search & Detection



Cable & Pipeline Scan
Hydrological &
Archaeological Detection

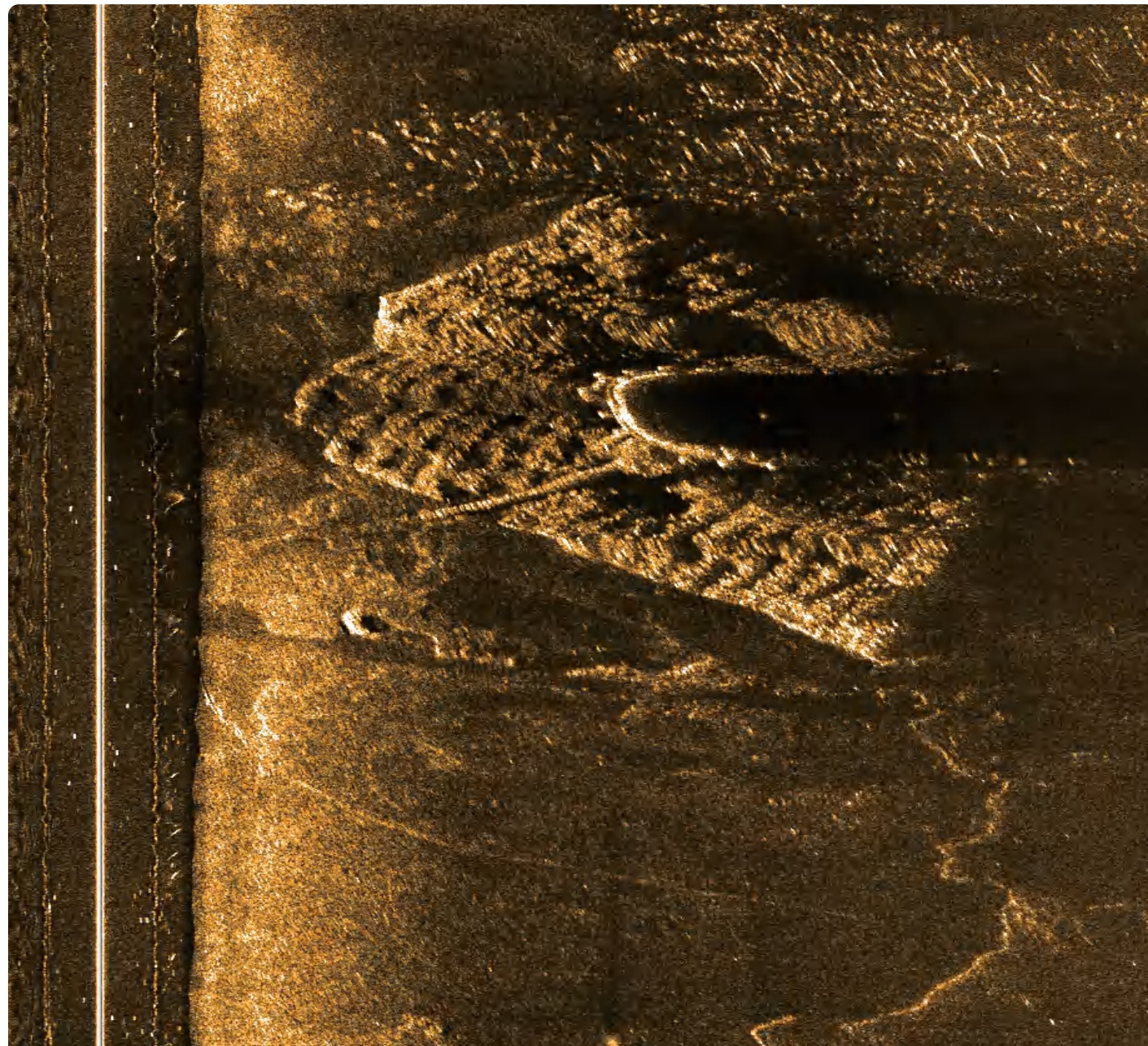


Marine Energy & Mineral
Resource Detection



Environmental
Monitoring &
Port Security

Case Studies

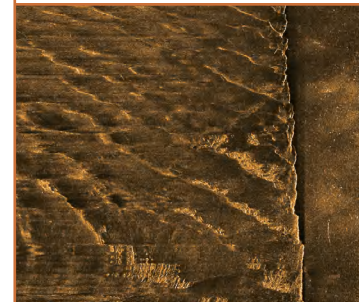


Marine Windmill Foundation Check

Case Studies



Anchor detection



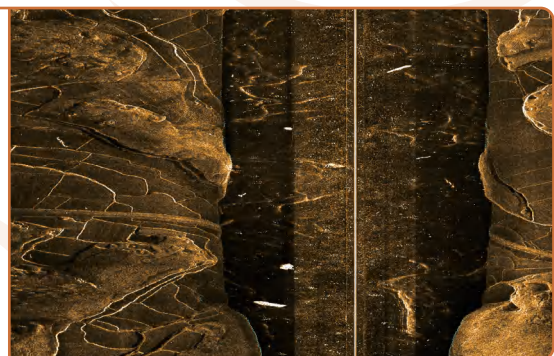
Sand slope scanning



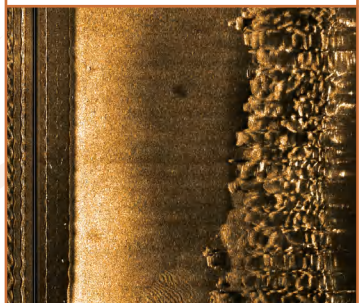
Seabed terrain scan



Seabed object detection



Seabed topography
rapid scanning



Waterway riprap detection