星天海洋
STARTEST MARINE



GeoBeam2040

Broadband Shallow-Water
Multibeam Echosounder

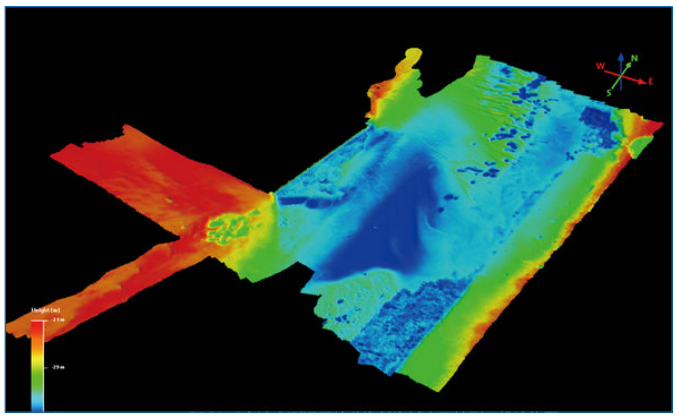
Product Overview

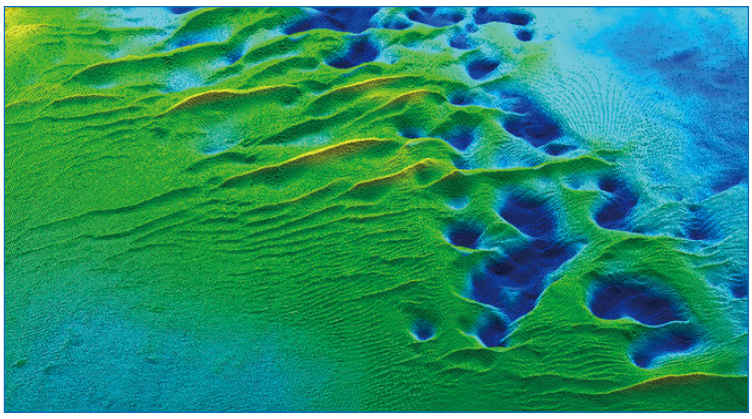
GeoBeam2040 is an efficient, high-precision, high-resolution broadband shallow water multibeam bathymetric system capable of achieving a continuous online modulation of 150 KHz ~450 KHz and compatibility with multiple data formats. It is based on a high-quality hardware and software architecture that is efficient, displaying a wide range of topographical performances and a full demonstration of GeoBeam 2040 ' s suitability. GeoBeam 2040 has been widely used in a variety of shallow sea mapping, especially in large-scale sea-sweeping operations, and can significantly improve the efficiency of mapping.

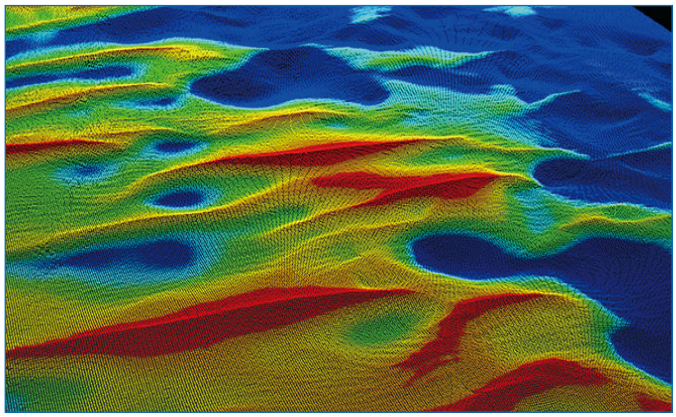


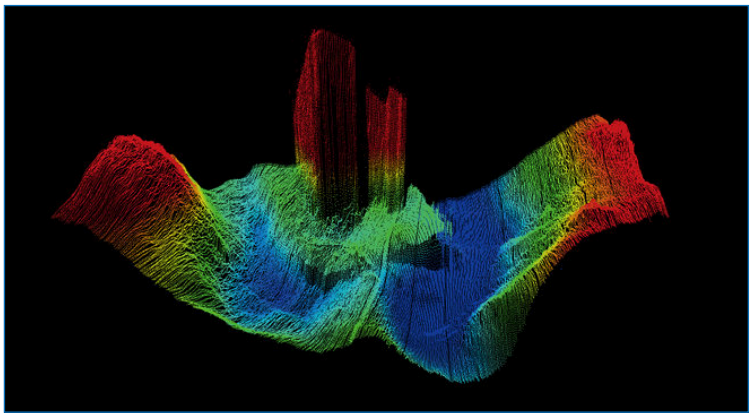
[Survey Results]

GeoBeam 2040 is a specialized level bathymetric system designed for depths within 550 metres of the ocean. Optimized design, particularly for high-wave and bad operating environments at sea, with continuous and adjustable broadband signal systems with a high degree of variability and resistance to interference and resolution. High complexity, high precision and light water areas can be measured for detection scenarios.

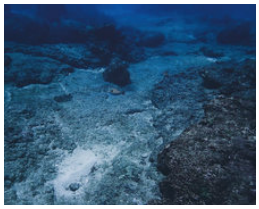


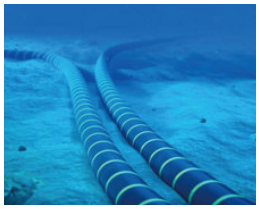






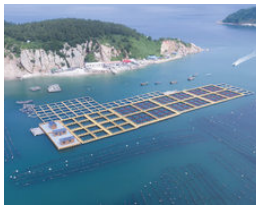
[Applications]


Marine geological survey


Submarine pipelines and cable laying


Port and sea lane management


Marine ecological research


Fisheries resource management

[System Features]

Large range of measurements:
Coverage up to 160 degrees

Real-time horizontal and vertical stability:
Real-time cross-twirl stabilizer, efficient

Measurement accuracy:
It's a resolution of 0.625 cm.

Measurement distance:
The measured depth is over 550 m.

All Chinese Interfaces:
Self-study control, collection, reprocessing software, human interaction

Frequency points can be adjusted in real time:
Precision and Range

[Technical Specifications]

Operating Frequency	150K-450KHz, continuous on-line, moving 10KHz
The beam opens the corner.	160°
Beamwidth	0.75°(TX) * 0.5°(RX)
Number of beams	512/1024
Detective range	550m
Maximum frame rate	60Hz
Roll's stable.	±10°
Pitch's stable.	±7°

Depth Resolution	0.625cm
Heave Accuracy	5cm or 5% range 2cm or 2%.
Directional precision	0.05° (4m baseline)/0.1° (2m baseline)
Attitude precision	0.02° (real time RTK)/0.015 (post-treatment)
Horizontal Position Accuracy	8mm+1ppm（RTK/PPK）
	10cm（PPP）/0.5-2m（DGPS）
Auxiliary location data	Accompanying thousands of tracers, provincial CORS

[Physical Specifications]

Size of launch unit	350mm*125mm*145mm
Receiving unit dimensions	450mm*160mm*145mm
Wet weight	19kg (tangent alloy)
Size of the deck unit	280mmX250mmX62mm
Unit weight on deck	3.4kg
Cable Length	15m

Power supply requirements	AC 220V
Work	Typical 100W.
Pressure-resistant depth	50m
Storage Temperature	- 20℃~65℃
Operating Temperature	- 10℃~55℃

星天海洋
STARTEST MARINE

www.startest.cn
market@startest.net
+86-15711204676

Beijing StarTest Technology Co., Ltd.
Dongsheng Science & Technology Park, Haidian, Beijing
7F, Bldg. 4, Courtyard 6

Zhejiang StarTest Marine Science & Technology Co., Ltd.
Xiuzhou District, Jiaxing, Zhejiang
Room 01-2, 11F, Bldg. 3, Huayu Center, Xincheng

Official WeChat