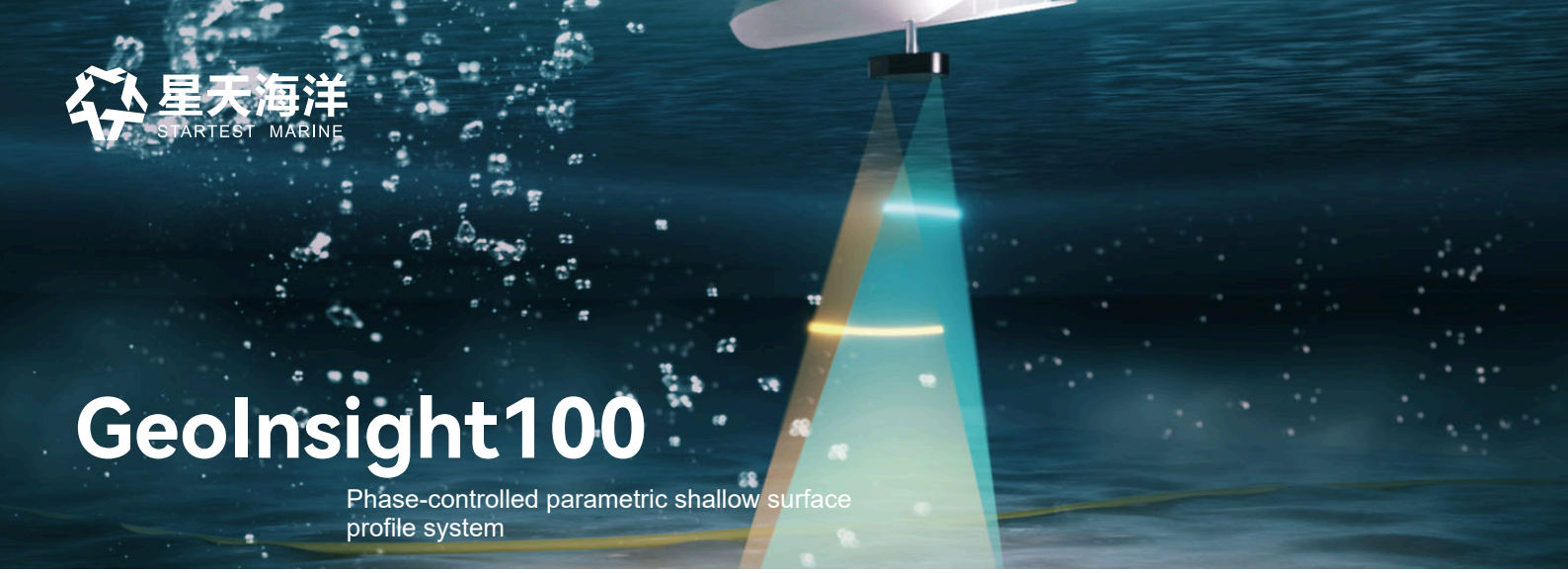


星天海洋
STARTEST MARINE

GeoInsight100

Phase-controlled parametric shallow surface profile system

Product Overview

The GeoInsight 100-comparison-controlled shallow-surface profiling system is based on the development of non-linear acoustic principles, receiving and distributing, and the launch array uses phase-control techniques, which, while achieving a high rate of stimulation and stability, can form a horizontal scanning profile detection system with a certain width below the trajectory line. The equipment is capable of submersible submersible submersible small target detection, such as antiquated vessel detection, search for marine construction relics, mine detection, geological and geophysical investigation, etc.

It plays a huge role.



[System Features]

- Send and distribute to achieve high stimulation rate
- Three-dimensional imaging to achieve cutting line measurements along the line
- Accelerator launch. Make sure you have some wide coverage.
- It's very clear. We can assign a small size to the target.

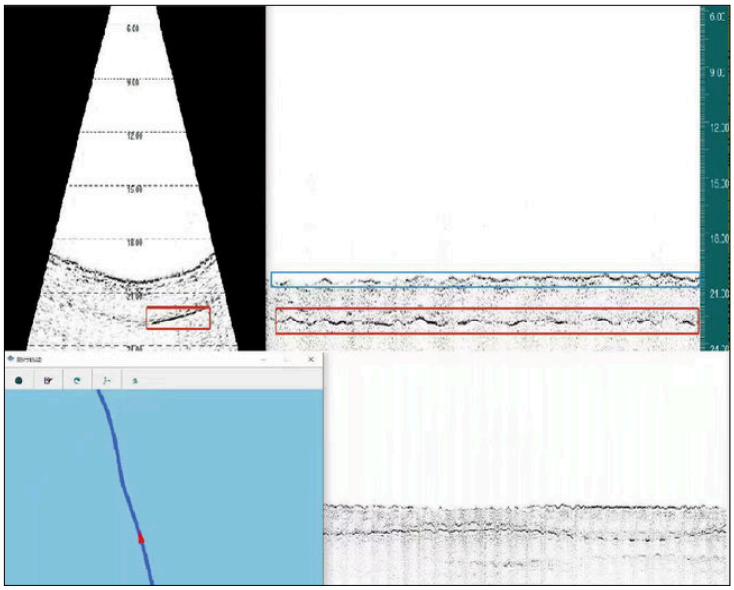
[Technical Specifications]

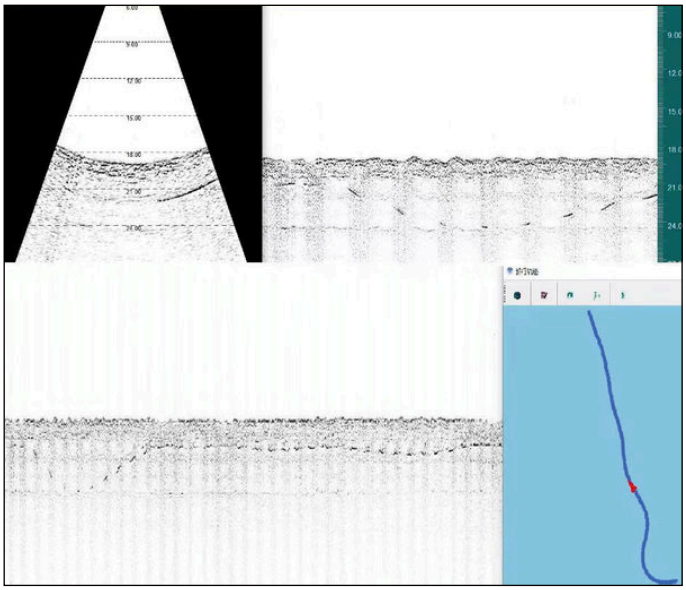
Original frequency	85 ~ 115 kHz	Dynamic Scope	>110 dB
Different frequency	5 ~ 20 kHz	Frequency of launch	Up to 40 times/sec
Pulse length	0.05 ~1 ms	Distance Resolution	<0.05 m
Original frequency horns	Better than 2.5*8 deg	Permeability	< 40 m (affected by ocean noise and bottom conditions)
Zoom in.	Better than 3*10eg	Effect distance	< 500 m (maximum bathymetric range)
Original Audio Source Level	>238 dB/uPa @ 1m@(100 kHz)	Camera launch.	Optional phased transmit steering, coverage <±25°
Discrepancies Source Level	> 194 dB/uPa @ 1m@(10KHz)	Posture compensation	Provision of redress and compensation for Roll and Heave
Receiver bandwidth	Routine/Purpose/Harmonic acceptance mix	Number of reception channels	Not less than two channels (original, differential)
Collections	128Ksps@24bit	Summary by Chart	Provides routine 2D profiles, fan profiles and 3D subsea imagery

[Physical Specifications]

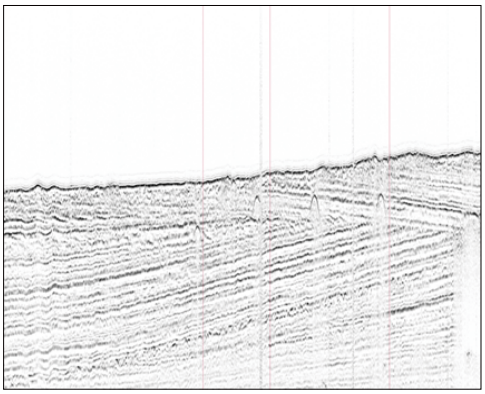
Equipment utilisation	< 300 W	Communications	Extranet communication for PC-end interaction
Power supply	220 VAC	External interface	GNSS, attitude sensors, internal and external synchronous triggers.
Energy retrofit size and weight	370*370*100 mm, 55kg (20 m cable)		
Size and weight of deck unit	<550*550*550 mm, <50kg (in stainless steel protection box)		

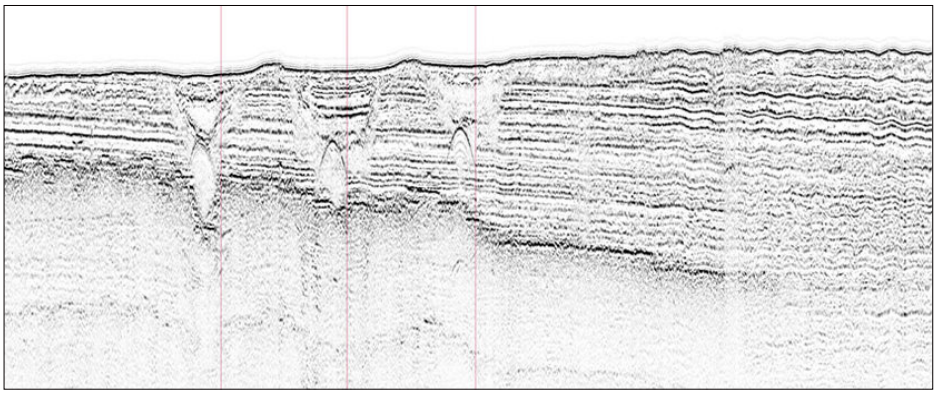
[Survey Results]

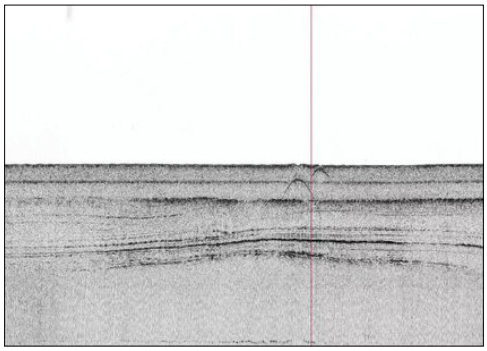


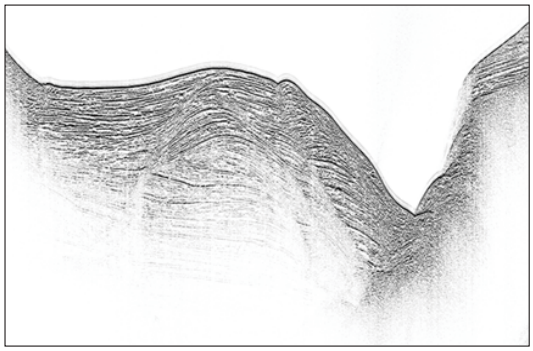


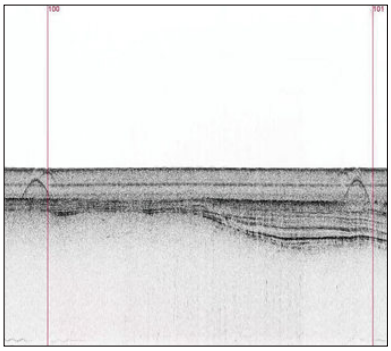
Three-dimensional imaging measurement.











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