星天海洋
STARTEST MARINE

GeoBeam 4070 series

High performance double-frequency multibeam bathymetric system

Single-headed flexible deployment of two-headed broad-band scans

[Product Overview]

The GeoBeam 4070 series, a high-performance double-frequency multibeam bathymetric system introduced by StarTest Marine, supports 400 kHz/7000 kHz double-frequency operations, balancing coverage with high-resolution measurements to meet the diversified operational needs of fine underwater mapping and large-scale efficient measurements.

GeoBeam4070

Single-pronouncer, flexible deployment, high-precision guidance,

Supporting 3D imaging and side-sweep imaging for fine

Measurement and multiplatform integration applications.



0.5°×0.5°	0.02°	0.5-300m
Beamwidth	Attitude precision	Depth Range

GeoBeam4070D

Dual heads, wide swath and fast surveys

Extensive application to ports, shipping lanes and shallow sea areas

Large area mapping operations in the domain.



210°	1024	60Hz
Maximum beam opening angle	Maximum beams	Maximum Ping Rate

[System Features]

Double-frequency operations

400kHz/700kHz double-frequency switch,

Take care of coverage and details.

High Resolution Measurement

Up to 1024 beams, centimetre-level bathymetric.

Resolution.

Multifunctional Integration

Support for 3D imaging, side-scanning imaging and

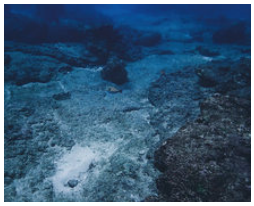
Real time stability.

High-impact operation extension

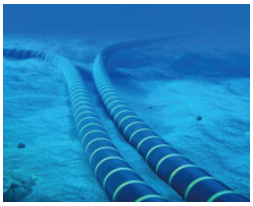
Support single-headed flexible deployment and double-heading

Bandwidth sweep.

[Applications]



Marine geological survey



Submarine pipelines and cable laying



Port and sea lane management

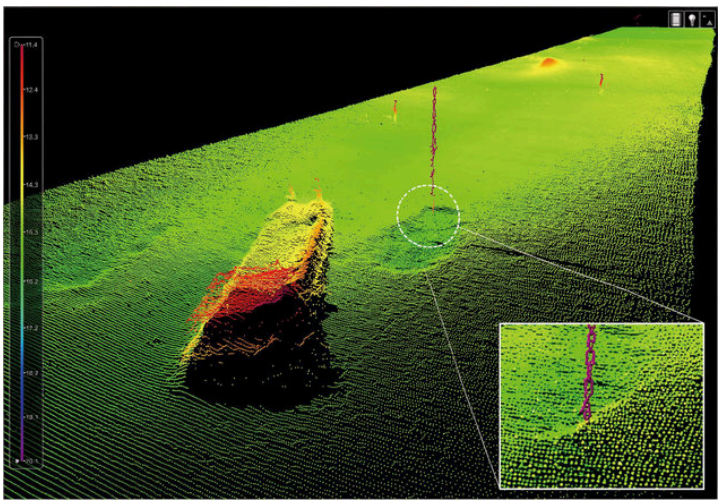


Marine ecological research

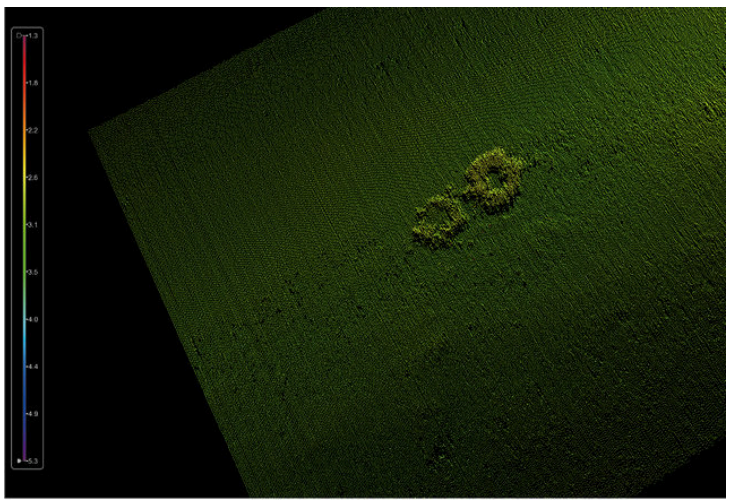


Fisheries resource management

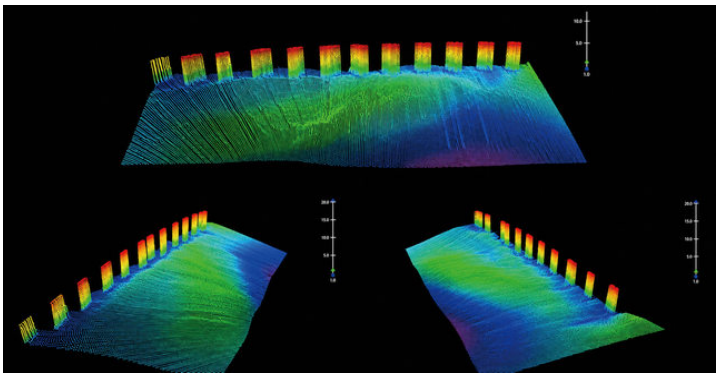
[Survey Results]



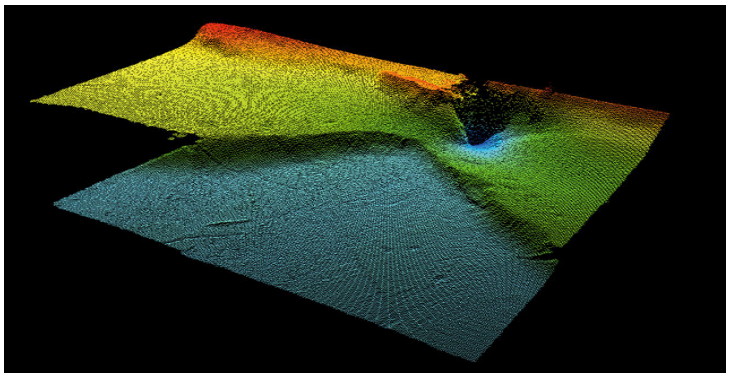
Shipwreck and anchor chain



Tyres



Bridge



Leakholes in front of the dam

[Technical Specifications]	GeoBeam4070	GeoBeam4070D
Operating Frequency	400kHz/700kHz	400kHz/700kHz
Maximum beam opening angle	145°@400kHz;90°@700kHz	210°
Tilt angle	10°/20°/30°	10°/20°/30°
Beamwidth	1°×1°@400kHz;0.5°×0.5°@700kHz	1°×1°@400kHz;0.5°×0.5°@700kHz
Number of beams	512/1024	512/1024
Detective range	Max. 300m	Max. 300m
Maximum frequency	60Hz	60Hz
Depth Resolution	⩽1cm	⩽1cm
Real-Time Roll Stabilization	Supported	Supported
Wet end dimensions	420×320×154mm	710×444×208mm
Weight	⩽13kg (air) ; ≈0kg (water)	⩽25kg (air) ; ≈0kg (water)
Max. Usage	＜70W	⩽150W
Pulse Width	25us-15ms	25us-15ms

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