星天海洋
STARTEST MARINE



GeoBeam400U

Deepwater Multibeam Sonar

Product Overview

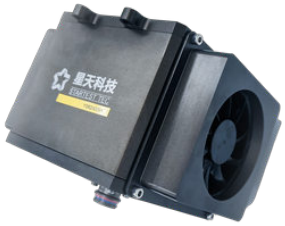
GeoBeam 400U deep water resistant multibeam bathymetric sound is a small size, weight.

Light, low-utility hardware platforms. It's based on a wealth of acoustic testing data performance.

SOC system-scale chip-driven with high performance processing capability. Quantified integrated design.

It's super small. (c) Modularized integrated encapsulation, with a high level of resistance to interference. Open source acoustic hardware platform,

Supporting third parties to further develop and expand their application functions.

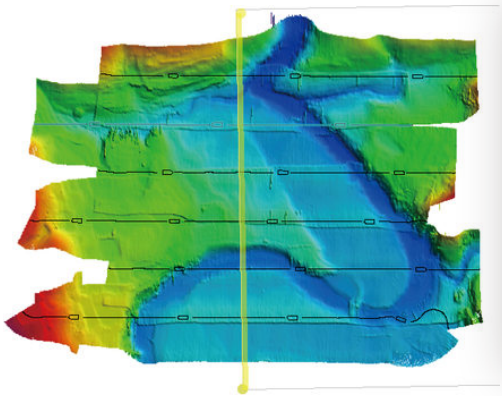


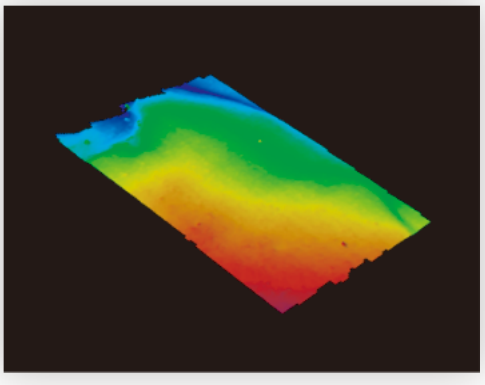


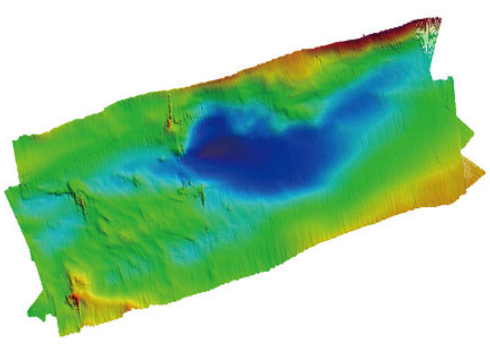
[Applications]

- Supersane water measurement
- Habitat mapping
- Inshore underwater mapping
- Investigations and rehabilitation
- River & Lake Surveys
- Port mapping
- Coastguard Survey
- Site clean-up measurements
- Environmental research
- Hydrological measurements
- No submersible measurement

[Survey Results]







[System Features]

Integrated Design

Small size, light weight, low utility,

Depth integration with unmanned measurement platforms

Easy Deployment

Inline attitude, positioning, sound speed.

No calibration, no debugging, no work.

Multiple Survey Modes

Battery measurement,

Belt measurements, full-cover measurements

Simple Operation

All Chinese interfaces, different

Measure environment first-key parameter settings

[Technical Specifications]

Model	GeoBeam400U
Operating Frequency	400KHz±20KHz
Number of beams	256/512/1024
Beamwidth	1.8°× 1.8°
Swath Coverage	130°
Depth Range	0.2-150m
Depth Resolution	1.0cm
Depth Sounding Mode	Equiangular / Equidistant
Maximum Ping Rate	50Hz
Waveform	CW/LFM
Pulse Width	25us -2ms

Transducer Depth Rating	2000m
No Calibration Required	Yes
Side-Scan Imaging	Yes
Real-Time Roll Stabilization	Yes
Near-Field Focusing	Yes
Water Column Imaging	Yes
Heading Accuracy (GNSS Available)	Aligns to AUV customary guidance precision
Attitude Accuracy (GNSS Available)	Aligns to AUV customary guidance precision
Horizontal Position Accuracy	Aligns to AUV customary guidance precision
Heave Accuracy	Aligns to AUV customary guidance precision

[Physical Specifications]

Supply Voltage	DC18-36V (Type：24V)
	Real-time processing module DC12V-19V (type:12V)
Maximum Power	< 25W (no real time processing module)
Data Interface	Gigabit Ethernet
Cable Length	To be determined based on installation requirements
Sound size (energy switch)	182mm*129mm*68mm (subject)
The sound weight.	4.3kg (air)

Size of electronic module (dry end)	125mm*125mm*142mm
Weight of electronic module (dry end)	1.8kg
Real-time processing and storage module dimensions	135mm*127mm*38.7mm
Weight of real-time processing and storage modules	0.6kg
Operating Temperature	-10°C~60°C
Storage Temperature	-20°C~70°C

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