星天海洋
STARTEST MARINE

GeoPass100

Portable sub-bottom profiler

[Product Overview]

GeoPass100, a small portable parametric shallow surface profile system, uses single-beam parametric techniques for shallow surface profiling and accurate bathymetric measurements. GeoPass 100 original frequency 100KHz with differential coverage wide, with bathymetric results and penetrating data. Small, compact, easy to use, suitable for small operational vessels,

USV pick-up.



[Technical Specifications]

Original frequency	85—115Khz	Original Audio Source Level	> 237 dB/uPa@1m 100Khz
Different frequency	5—25Khz	Discrepancies Source Level	> 194 dB/uPa@1m 10Khz
Pulse length	0.05—1ms	Dynamic Scope	> 110 dB
Pulse Type	CW, CHIRP option	Distance Resolution	< 4cm
Launch rate	Maximum 20 pings/s	Permeability	< 40m (depending on bottom type and noise)
Original frequency horns	5 deg	Effect distance	< 200m
Zoom in.	5—6 deg	Posture compensation	Provide Heave with redress and compensation
Harmonic bathymetric resolution (optional)	2.5cm		

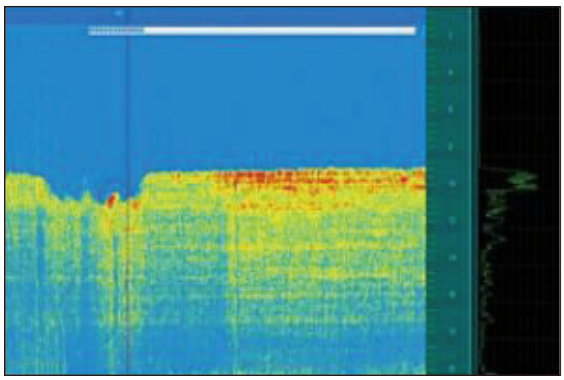
[Physical Specifications]

Work	Less than 150 W
Power supply	24VDC/220VAC to 24VDC
Communications	Extranet interface, RS485 to USB, PC end control
External interface	GNSS, Posture Sensor
Energy retrofit size/weight	362mm*240mm*50mm / < 10kg
Size/weight of deck unit	500mm*400mm*190mm / < 11.2kg
Operating Temperature	0°C-40°C (Falk deck unit)
Protection level	IP67

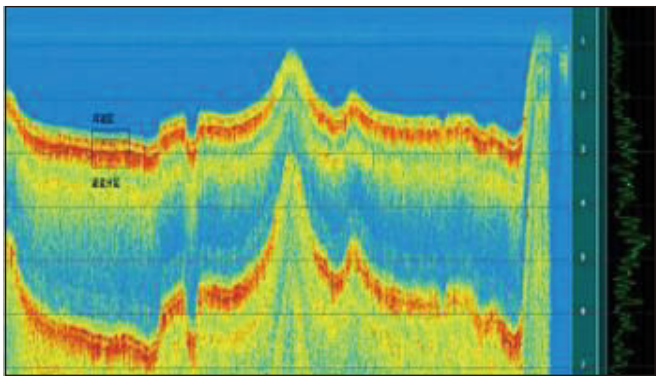
[System Features]

- > Superbroadband converter
- > Installation Easy
- > A little handheld
- > Fragmented Design, Easy to Work
- > mature parametric array technology
- > Strong penetrator capability, high impact distance
- > Multi-frequency Customization Options
- > High-accuracy bathymetry for harmonization HF

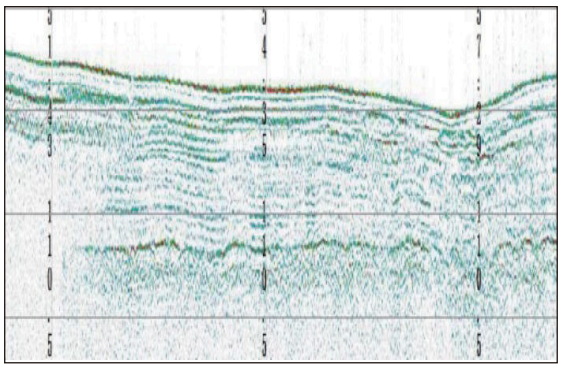
[Survey Results]



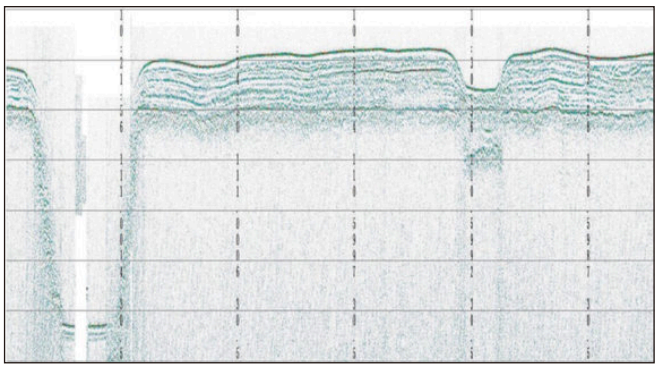
Replaying raw data from a pipeline detection



Zhejiang, two to three metres deep.



It's a bottom layer of the sea.



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