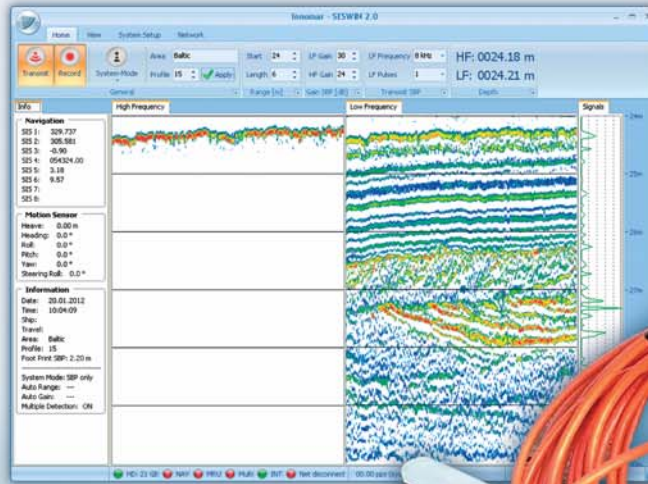


Top-side unit



Screenshot of the operating software (left side 100 kHz, right side 6 kHz)

Transducer



► **Performance**

- water depth range: 0 – 400 m
- penetration: up to 40 m depending on sediments and frequency
- range resolution: up to 5 cm, depending on pulse settings
- HRP compensation: heave, depending on sensor data
- beam width @ 3dB:  $\pm 2^\circ$  / footprint < 7% of water depth for all frequencies

► **Transmitter**

- primary high frequencies: 94–110 kHz
- secondary low frequencies: 5, 6, 8, 10, 12, 15 kHz
- primary pulse power: > 12 kW
- primary source level: > 236 dB// $\mu$ Pa re 1 m
- pulse width: 0.07–1 ms
- pulse rate: up to 40/s depending on range, multi-ping mode available
- pulse type: CW, Ricker

► **Receiver**

- primary high frequency (echo sounder, bottom track)
- secondary low frequency (sub-bottom data)
- water column imaging

► **System Components**

- transceiver unit 1/2 19 inch / 6 U (WHD: 0.3 m x 0.3 m x 0.4 m; 19 kg)
- transducer incl. 20 m cable (WHD: 0.34 m x 0.08 m x 0.26 m; 22 kg)
- system control: external PC/Notebook via Ethernet

# SES-2000 compact Parametric Sub-bottom Profiler

► **Software**

- SESWIN data acquisition software
- SES Convert SEG-Y/XTF data export
- SES NetView remote display
- ISE post-processing software (option)

► **Power Supply Requirements**

- 100–240 V AC / 50–60 Hz or 11–30 V DC (option)
- power consumption: < 250 W



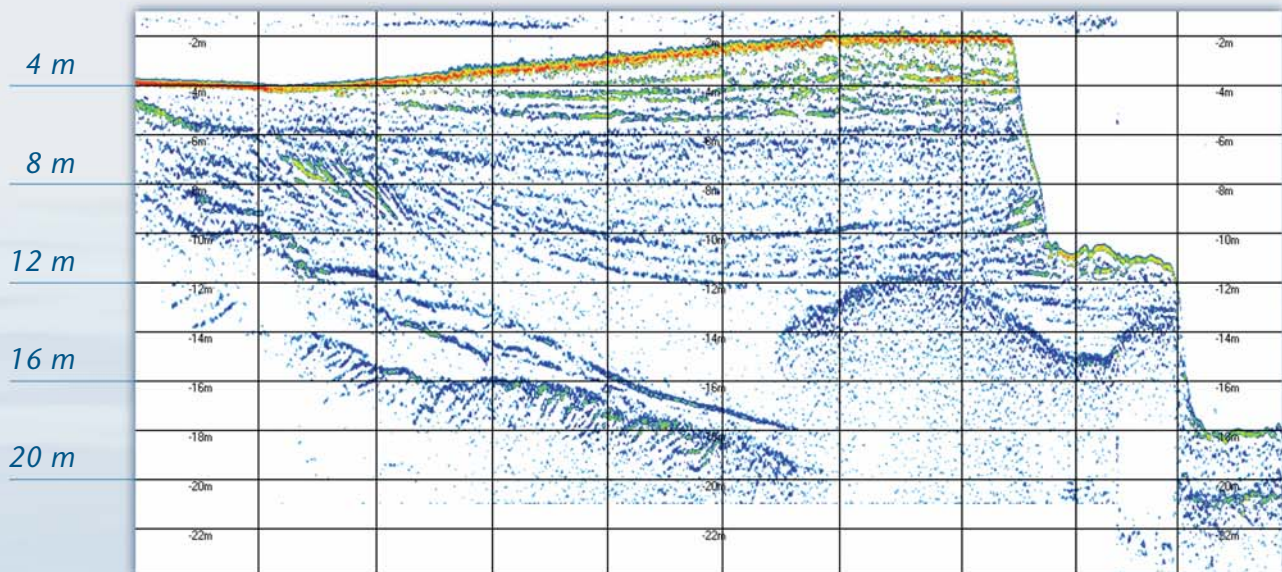
**Innomar**



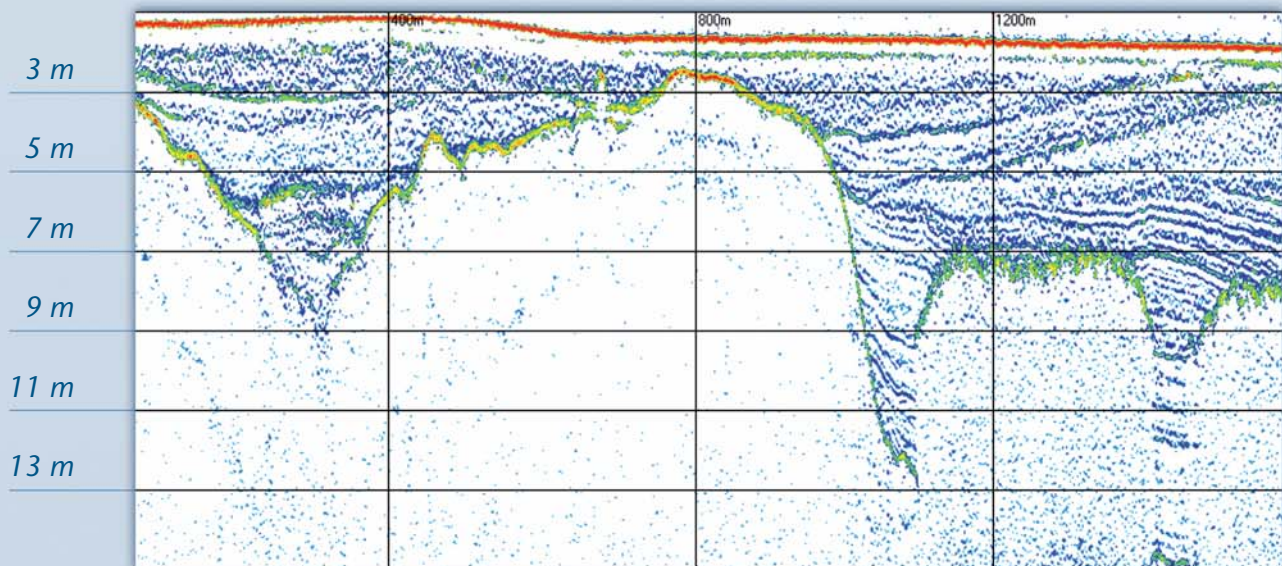
[www.innomar.com](http://www.innomar.com)

Innomar Technologie GmbH, Germany

# Survey examples of SES-2000 compact



*Gulf of Trieste echo plot example – Frequency 8kHz, pulse length 375 $\mu$ s, profile length 1000m*



*Gambia River echo plot example – Frequency 10kHz, pulse length 200 $\mu$ s, profile length 1600m*

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