

### ► Performance

- water depth range: 0.5 – 100 m
- penetration: up to 20 m, depending on sediments
- layer resolution: up to 7.5 cm
- motion compensation: heave
- beam width @ 3dB:  $\pm 2.5^\circ$  / footprint < 9% of water depth for both frequencies

### ► Transmitter

- primary frequencies: approx. 100 kHz (band 90 – 110 kHz)
- secondary low frequency: 10 kHz (band 5 – 15 kHz)
- primary source level: > 236 dB/ $\mu$ Pa re 1 m
- pulse width: 100–500  $\mu$ s
- pulse rate: up to 40/s
- pulse type: CW, Ricker

### ► Acquisition

- primary frequency: 100 kHz (echo sounder, bottom track)
- secondary low frequency: 10 kHz (full-waveform sub-bottom data)
- sample rate 70 kHz @ 24 bit

### ► System Components

- transceiver unit 1/2 19 inch / 4 U (WHD: 0.30 m x 0.21 m x 0.40 m; 13 kg)
- transducer incl. 15 m cable (WHD: 0.30 m x 0.09 m x 0.22 m; 13 kg)
- system control: external PC / Notebook / Tablet via Ethernet / WiFi

## SES-2000 smart 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)

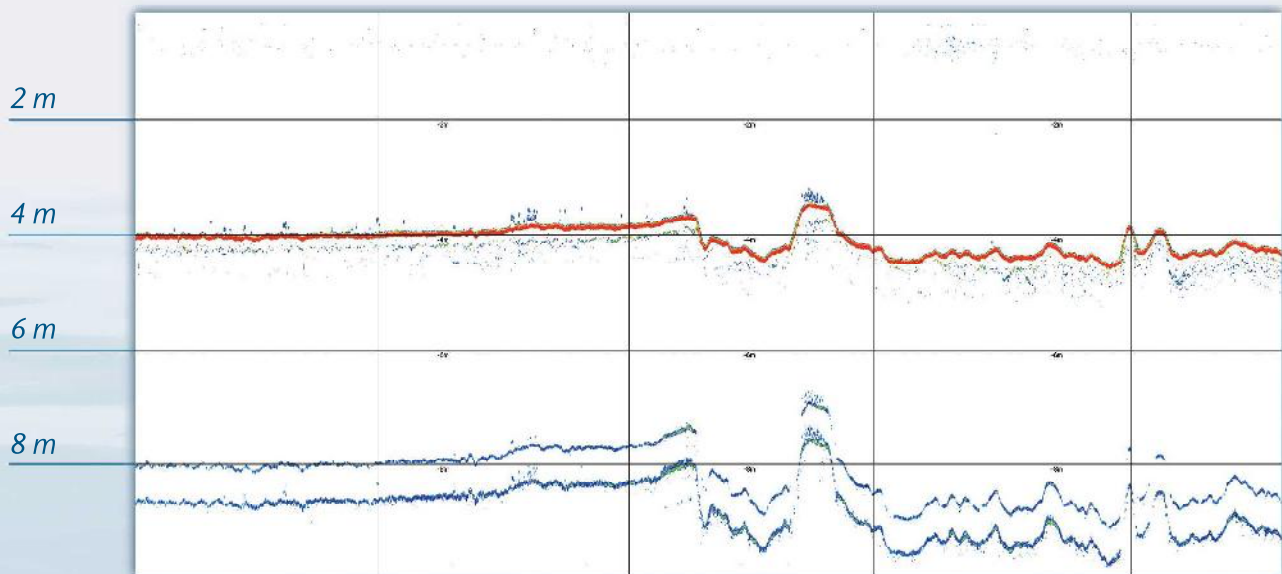
### ► Power Supply Requirements

- 100–240 V AC / 50–60 Hz or 12 V DC or 24 V DC (option)
- power consumption: < 100 W

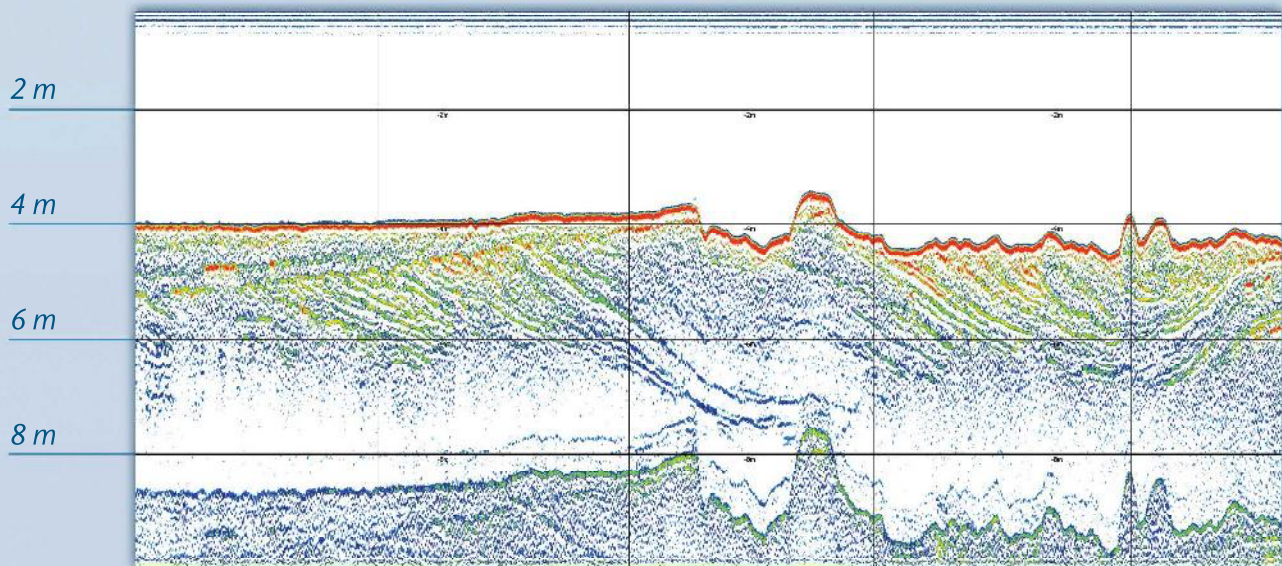


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## Survey examples of SES-2000 smart



*Baltic Sea echo plot example – Frequency 100 kHz, pulse length 100  $\mu$ s, profile length 450 m*



*Baltic Sea echo plot example – Frequency 10 kHz, pulse length 100  $\mu$ s, profile length 450 m*

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