



#### ► Performance

- water depth range: 0.5 – 500 m
- penetration: up to 50 m, depending on sediments
- layer resolution: up to 5 cm
- motion compensation: heave, roll
- beam width @ 3 dB:  $\pm 2^\circ$ ; footprint < 7 % of water depth for all frequencies

#### ► Transmitter

- primary frequencies: approx. 100 kHz (band 85 – 115 kHz)
- secondary low frequencies: 4, 5, 6, 8, 10, 12, 15 kHz (band 2 – 22 kHz)
- primary source level: > 240 dB// $\mu$ Pa re 1 m
- pulse width: 0.07 – 1.5 ms
- pulse rate: up to 50/s
- multi-ping mode
- pulse type: CW, Ricker, LFM (chirp)

#### ► Acquisition

- primary frequency (echo sounder, bottom track)
- secondary low frequency (sub-bottom data, multi-frequency mode)
- record data sample rate 96 kHz @ 16 (24) bit

#### ► System Components

- transceiver unit 19 inch / 7U (WHD: 0.52 m x 0.34 m x 0.40 m; 35 kg)
- transducer incl. 30 m cable (WHD: 0.34 m x 0.08 m x 0.26 m; 30 kg)
- system control: internal PC

## INNOMAR standard Parametric Sub-bottom Profiler

#### ► Software

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

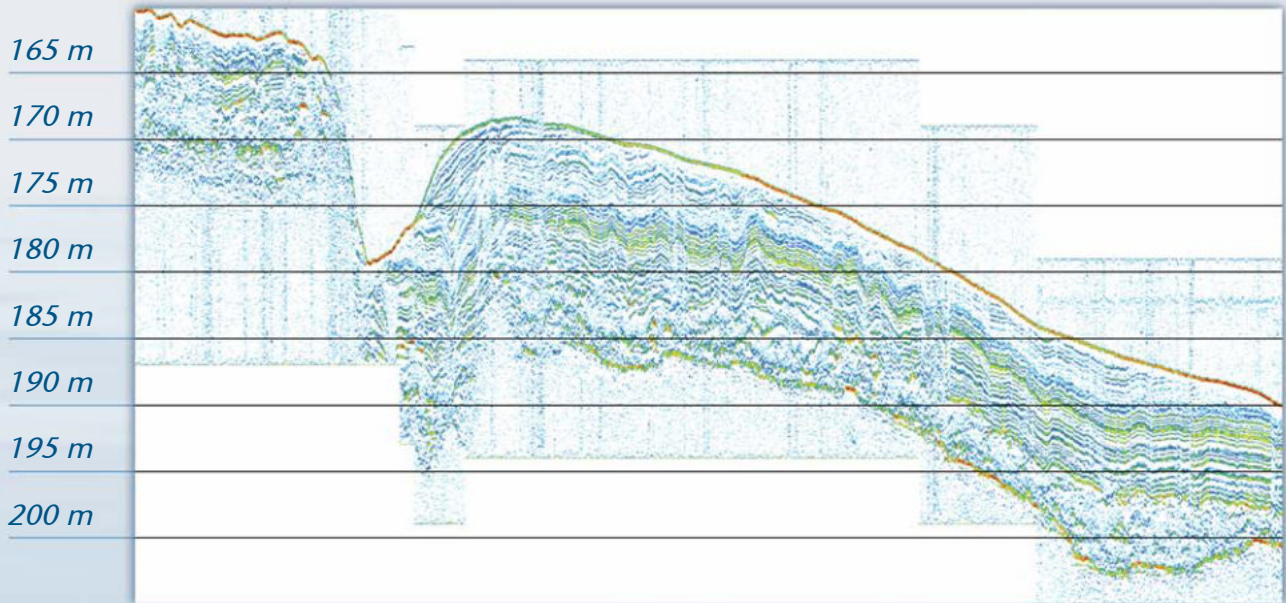
#### ► Power Supply Requirements

- 100 – 240 V AC / 50 – 60 Hz
- power consumption < 300 W

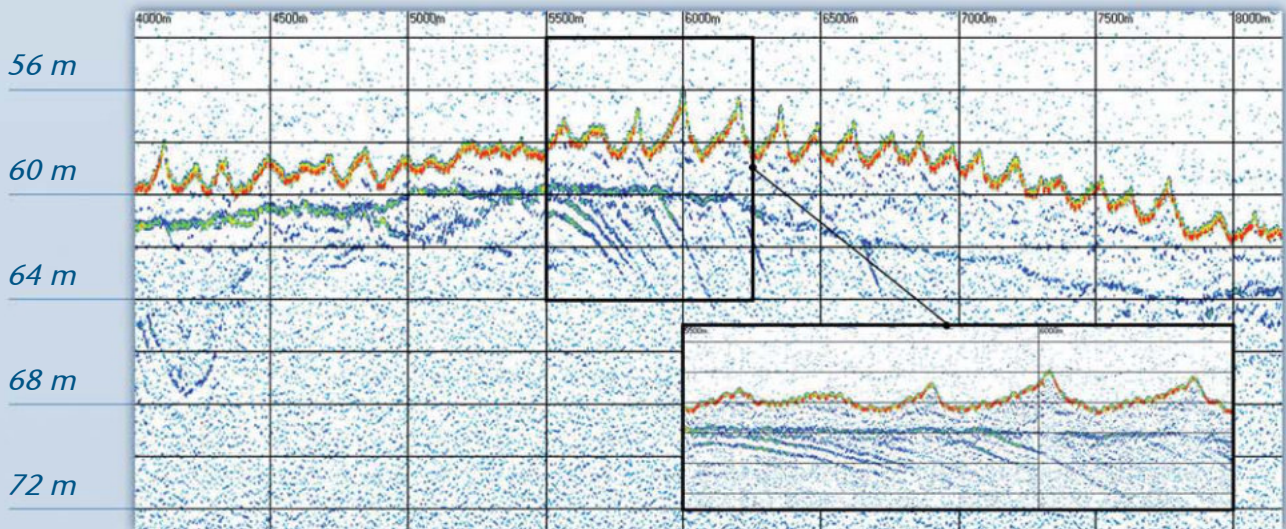


[www.innomar.com](http://www.innomar.com)

# Survey examples of Innomar SES standard SBP



*Baltic Sea echo plot example – Frequency 8 kHz, pulse length 0.375 ms, profile length 6200 m*



*Northern Sea echo plot example – Frequency 8, pulse length 0.375 ms, profile length 4200 m*

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