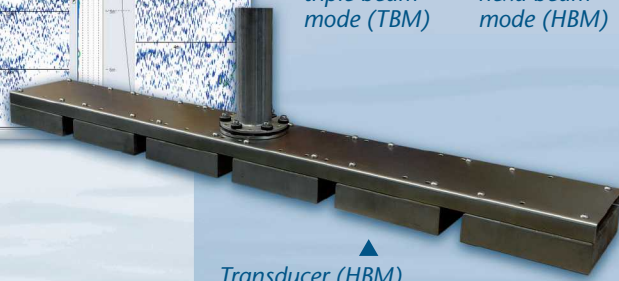


Top-side unit



Screenshot of the operating software



Transducer (HBM)



single beam mode (SBM)



dual beam mode (DBM)



triple beam mode (TBM)



hexa beam mode (HBM)

► Performance

- water depth range:
SBM: 2 – 1,000 m
HBM: 0.5 – 30 m
(depends on array geometry)
- sediment penetration:
SBM: up to 60 m
HBM: up to 20 m
- layer resolution: up to 5 cm
- motion compensation: heave
- beam width @ 3 dB for all frequencies:
SBM: $\pm 1.5^\circ$ / footprint < 5.5 % of water depth
HBM: $\pm 2.5^\circ$ / footprint < 9.0 % of water depth

► 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:
SBM: > 247 dB// μ Pa re 1 m
HBM: > 235 dB// μ Pa re 1 m
- pulse width: 0.07 – 1 ms
- pulse rate:
SBM: up to 60/s
HBM: up to 13/s per transducer
- multi-ping mode (SBM)
- pulse type: CW, Ricker

► Acquisition

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

SES-2000 sixpack Parametric Sub-bottom Profiler

► System Components

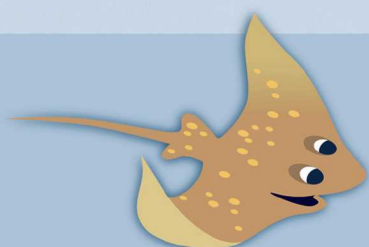
- transceiver unit 19 inch / 9 U
(WHD: 52 cm x 44 cm x 40 cm; 39 kg)
- transducer excl. 15 m cable each
(WHD: 6 x [0.21 m x 0.06 m x 0.21 m];
6 x 5 kg)
- system control: internal PC

► Software

- SESWIN data acquisition software
- SES Convert SEG-Y/XTF data export
- SES NetView remote display
- ISE post-processing software
- 3D volume renderer

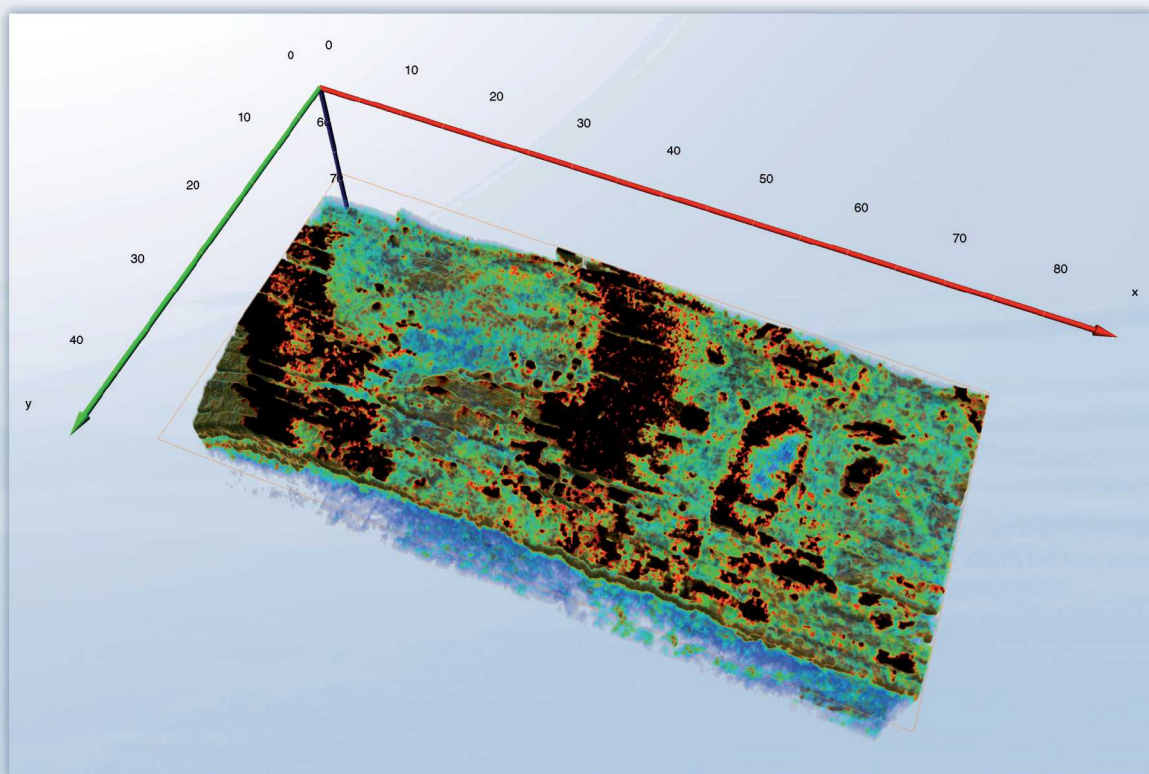
► Power Supply Requirements

- 100 – 240 V AC / 50 – 60 Hz
- power consumption: < 350 W

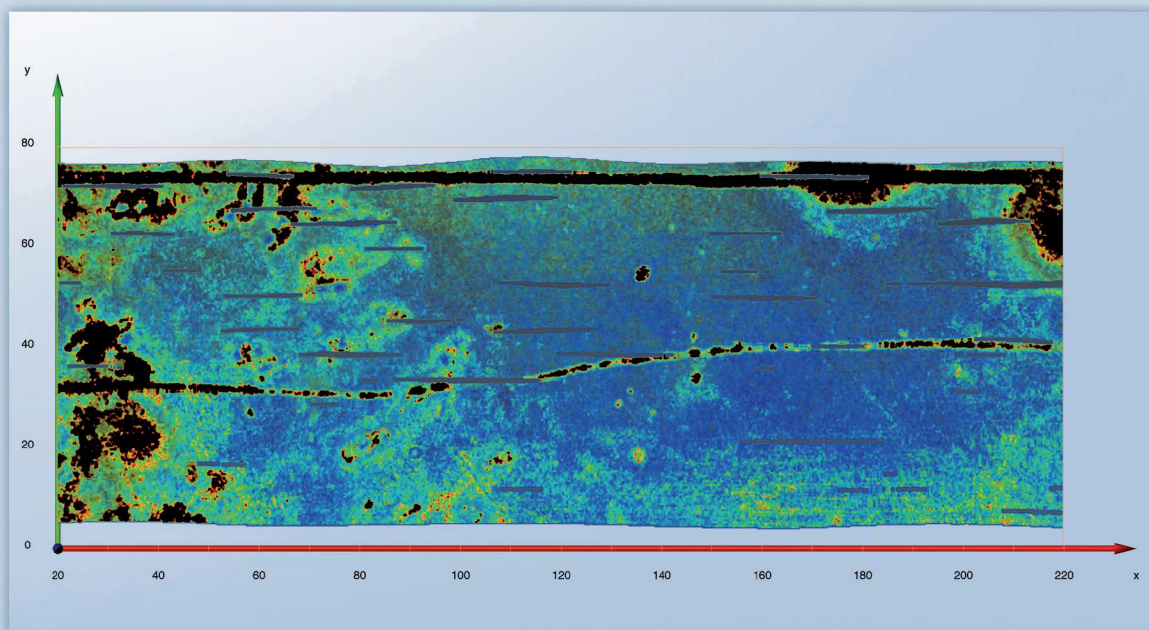


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Survey example of SES-2000 sixpack



Clipped 3D volume with shallow buried wooden shipwreck (0.50 m bsf, length c. 13 m, width c. 5 m) from the coast of the Baltic Sea near Rostock, Germany



Time slice of sub-bottom volume with a shallow buried pipeline (upper section) and power cable (central section) from a river crossing (depth of burial is about one metre)

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