



### ► General & Applications

- First / latest product generation: 2000 / 2021
- Small boats, inshore and near-shore surveys

### ► Performance

- Water depth range: 0.5–400 m
- Seabed penetration: up to 40 m (depending on seabed type and noise)
- Range resolution: up to 5 cm (depending on pulse settings)
- Depth accuracy: 2.5 cm + 0.06% water depth
- Motion compensation: Heave (external sensor data required)

### ► Transmitter

- Principle: parametric (nonlinear) acoustics
- Frequencies: 100 kHz (HF) / 4–15 kHz (LF)
- Primary Source Level: >238 dB// $\mu$ Pa re 1m
- Acoustic Power: c. 2.3 kW
- Beam width: c. 4° ( $\pm 2^\circ$ ) for all frequencies
- Pulse type: CW, Ricker
- Pulse width: 0.07–1 ms
- Pulse rate: up to 50 Hz, multi-ping mode

### ► Data Acquisition

- Digital, 2 channels (LF and HF, "SES3" format)
- Sample rate 96 kHz @ 24 bit; resolution <1 cm
- LF sub-bottom data: raw (full-waveform)
- HF data: processed (envelope)

### ► System Components

- Deck unit (transceiver electronics, IP20):  
Housing 19 inch / 5 U, desktop  
W 52 cm × D 40 cm × H 26 cm / c. 25 kg
- Transducer (no depth rating):  
W 34 cm × D 26 cm × H 8 cm / c. 22 kg (w/ cable)  
cable length 20 m, moulded to transducer
- System control & data acquisition PC:  
MS Windows® based, 10" TFT display

### ► Optional Features

- Water-proof transducer cable inline connection
- Different cable length (15–30 m)
- Transducer mounting frame with shock absorbers
- SESWIN extended remote-control

### ► Power Supply Requirements

- 100–240 V AC (fuse 16 A slow)
- Power consumption: typ. 150 W / max. 250 W
- Power-on inrush current: max. 25 A

### ► Software

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

