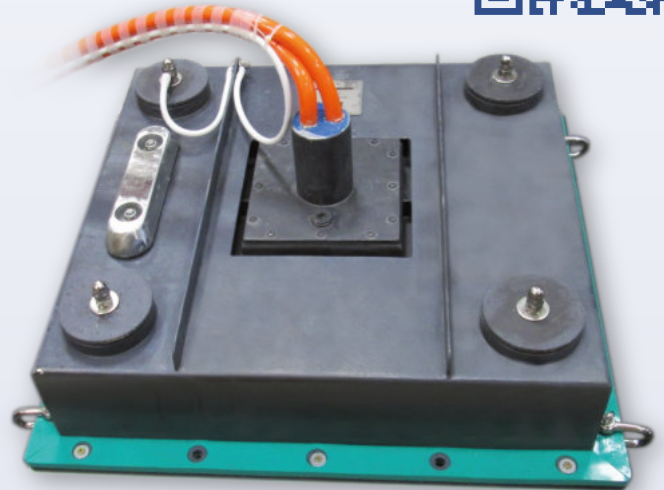


A **NORBIT** Company



► General & Applications

- First / latest product generation: 2012 / 2021
- Offshore route and site surveys

► Performance

- Water depth range: 5–2,500 m
- Seabed penetration: up to 100 m (depending on seabed type and noise)
- Range resolution: up to 7 cm (depending on pulse settings)
- Depth accuracy: 2.5 cm + 0.04% water depth
- Motion compensation: Heave, Roll or Pitch (beam forming at transmit and receive; external sensor data required)

► Transmitter

- Principle: parametric (nonlinear) acoustics
- Frequencies: 70 kHz (HF) / 3–12 kHz (LF)
- Primary Source Level: >246 dB// μ Pa re 1m
- Acoustic Power: c. 7.5 kW
- Beam width: c. 3° ($\pm 1.5^\circ$) for all frequencies
- Pulse type: CW, Ricker, FM Chirp
- Pulse width: 0.1–1 ms (CW), 5 ms (chirp)
- Pulse rate: up to 50 Hz (pings/s)

► 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 / 9 U, desktop W 52 cm × D 40 cm × H 44 cm / c. 52 kg
- Transducer (with frame, no depth rating): W 60 cm × D 60 cm × H 25 cm / c. 140 kg (w/o cable), cable length 30 m (moulded)
- System control & data acquisition PC: MS Windows® based, 10" TFT display

► Optional Features

- Roll **AND** Pitch compensation
- Water-proof transducer cable inline connection
- Different cable length (20–50 m)
- SESWIN extended remote control

► Power Supply Requirements

- 100–240 V AC (fuse 16 A slow)
- Power consumption: typ. 250 W / max. 450 W
- Power-on inrush current: c. 25 A

► Software

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

