Innomar compact
Parametric Sub-Bottom Profiler

A **NORBIT** Company





General & Applications
- First / latest product generation: 2002 / 2024
- 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//µPa re 1m
- Acoustic Power: c. 2.3 kW
- Beam width: c. 4° (±2°) for all frequencies
- Pulse type: CW, Ricker
- Pulse width: 0.07–1 ms
- Pulse rate: up to 40 Hz, multi-ping mode

Data Acquisition
- Digital, 2 channels (LF and HF, "SES3" format)
- Sample rate c. 100 kHz @ 24 bit; resolution <1 cm
- LF sub-bottom data: raw (full-waveform)
- HF data: processed (envelope)

System Components
- Deck unit (transceiver electronics, IP 20): Housing ½ 19 inch / 4 U, desktop housing W 30 cm × D 40 cm × H 20 cm / c. 15 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 PC (not included): MS Windows® based

Optional Features
- Transducer mounting frame with shock absorbers
- External DC power adapter (24V or 12V)
- SESWIN extended remote-control

Power Supply Requirements
- 100–240 V AC
- Power consumption: typ. 60 W / max. 150 W
- Power-on inrush current: max. 15 A

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