



Innomar medium-100

Parametric Sub-Bottom Profiler

A **NORBIT** Company



► General & Applications

- First / latest product generation: 2004 / 2024
- Offshore route and site surveys

► Performance

- Water depth range: 2–2,000 m
- Seabed penetration: up to 70 m (depending on seabed type and noise)
- Range resolution: up to 5 cm (depending on pulse settings)
- Depth accuracy: 2.5 cm + 0.02% water depth
- Motion compensation: Heave, Roll or Pitch (beam forming at transmit and receive; external sensor data required)

► Transmitter

- Principle: parametric (nonlinear) acoustics
- Frequencies: 100 kHz (HF) / 4–15 kHz (LF)
- Primary Source Level: >247 dB/μPa re 1m
- Acoustic Power: c. 5.5 kW
- Beam width: c. 2° (±1°) for all frequencies
- Pulse type: CW, Ricker, FM Chirp
- Pulse width: 0.07–1 ms (CW), 3.5 ms (chirp)
- 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 / 9 U, desktop
W 52 cm × D 40 cm × H 44 cm / c. 44 kg
- Transducer (no depth rating):
W 50 cm × D 50 cm × H 12 cm / c. 60 kg (w/ cable)
cable length 30 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 (20–50 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. 250 W / max. 400 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)