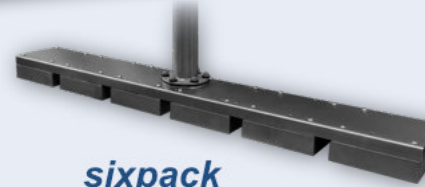


quattro



sixpack



standard dual head

Depth Range Below Transducer	0.5 – 100 m* 2 – 600 m**	0.5 – 100 m* 2 – 1,000 m**	0.5 – 500 m* 2 – 800 m**	
Seabed Penetration	up to 20 m* up to 50 m**	up to 20 m* up to 60 m**	up to 50 m* up to 60 m**	
Transmit Beam Width	c. 5° × 5°* c. 3° × 3°**	c. 5° × 5°* c. 3° × 2.5°**	c. 4° × 4°* c. 4° × 2°**	
Motion Compensation	heave	heave	heave & roll (±16°)	
Mean Primary Frequency Band	c. 100 kHz 85 – 115 kHz	c. 100 kHz 85 – 115 kHz	c. 100 kHz 85 – 115 kHz	
SBP Centre Frequencies Band	4 – 15 kHz 2 – 22 kHz	4 – 15 kHz 2 – 22 kHz	4 – 15 kHz 2 – 22 kHz	
Primary Source Level Peak RMS	c. 235 dB 229 dB* c. 245 dB 239 dB**	c. 235 dB 229 dB* c. 247 dB 241 dB**	c. 241 dB 235 dB* c. 246 dB 240 dB**	
Data Acquisition	24 bit @ 96 kHz	24 bit @ 96 kHz	24 bit @ 96 kHz	
Range Resolution Depth Accuracy***	max. 5 cm 3 cm + 0.1% WD*	max. 5 cm 3 cm + 0.1% WD*	max. 5 cm 2.5 cm + 0.06% WD*	
Power	Supply Voltage	100 – 240 V AC	100 – 240 V AC	
	Consumption	typ. 200 W / max. 300 W	typ. 200 W / max. 350 W	typ. 160 W / max. 350 W
Transceiver (Topside)	Dimensions	52 cm × 40 cm × 34 cm (19" / 7 U)	52 cm × 40 cm × 34 cm (19" / 7 U)	52 cm × 40 cm × 34 cm (19" / 7 U)
	Weight Protection	c. 32 kg IP20	c. 34 kg IP20	c. 36 kg IP20
Transducer (Sonar Head)	Dimensions	4 × [21 cm × 21 cm × 6 cm]	6 × [21 cm × 21 cm × 6 cm]	2 × [27 cm × 26 cm × 8 cm]
	Weight in Air Water	c. 5 kg 4 kg *	c. 5 kg 4 kg *	c. 11 kg 7 kg *
	Depth Rating	surface	surface	surface
Cable	Length Weight	15 m c. 3 kg*	15 m c. 3 kg*	30 m c. 17 kg*
	Connector	D 35 mm × L 80 mm (10 pins)	D 35 mm × L 80 mm (10 pins)	D 55 mm × L 95 mm (35 pins)
First / Latest Generation	2015 / 2021	2017 / 2021	2026	

Optional Items (Selection)

- Transducer mounting frame (line array, square array)

- Transducer mounting frame (line array, square array)

- Underwater connectors
- Transducer fairings (included)
- Transducer shock mounts
- Transducer hull mounting frame

* single transducer (dimensions and weight excl. cable)
 ** 2×2 array (quattro) | 2×3 array (sixpack) | 2×1 array (standard)
 *** depth accuracy depending on water depth (WD)

Innomar Parametric Sub-Bottom Profilers

Shallow Water

- when portability matters
- from less than one metre down to 500 metres
- beam width c. 4° – 8° for all frequencies
- sub-decimetres resolution

High Power

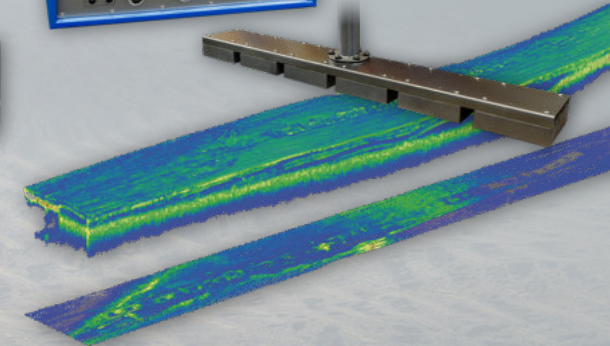
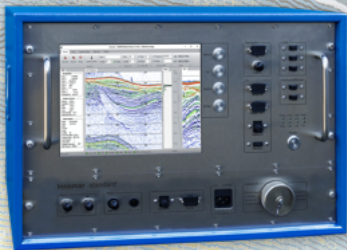
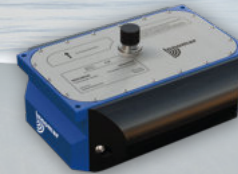
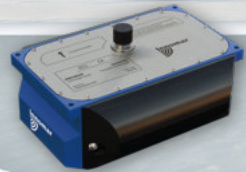
- when penetration matters
- water depths from shallow to full ocean depth (11,000+ m)
- beam width c. 2° – 3° for all frequencies
- all models with stabilised beam
- portable or hull-mounted

Remotely Operated

- remotely controlled and autonomous operation
- integration into all scales of USV and ASV
- rack-mounted and size optimised transceivers

Multi-Transducer

- 3D sub-seabed data
- buried objects, like pipelines, cables and boulders
- four or six transducers with adjustable spacing & grouping
- high-power single-beam mode



- Innomar **essential** (100 / 6 – 15 kHz)
- Innomar **compact** (100 / 4 – 15 kHz)
- Innomar **light** (100 / 4 – 15 kHz)
- Innomar **standard** (100 / 4 – 15 kHz)

- Innomar **medium-100** (100 / 4 – 15 kHz)
- Innomar **deep-36** (36 / 2 – 7 kHz)
- Innomar **deep-15** (15 / 0.75 – 3.7 kHz)

- Innomar **essential** (100 / 6 – 15 kHz)
- Innomar **compact-usv** (100 / 4 – 15 kHz)
- Innomar **standard-usv** (100 / 4 – 15 kHz)
- Innomar **medium-usv** (100 / 4 – 15 kHz)
- Innomar **standard-rov** (100 / 4 – 15 kHz)

- Innomar **quattro** (100 / 4 – 15 kHz)
- Innomar **sixpack** (100 / 4 – 15 kHz)
- Innomar **standard-DH** (100 / 4 – 15 kHz)