



medium-100



deep-36-R



deep-36-RP



deep-15

Depth Range Below Transducer	2 – 2,000 m	5 – 6,000 m	5 – 6,000 m	10 – 11,000+ m	
Seabed Penetration	up to 70 m	up to 150 m	up to 150 m	up to 200 m	
Transmit Beam Width	c. 2° (across) × 2.5° (along)	c. 3.5° × 3.5°	c. 3.5° × 3.5°	c. 4.6° × 4.6°	
Motion Compensation	heave & roll (±16°)	heave & roll (±16°)	heave & roll & pitch	heave & roll & pitch	
Mean Primary Frequency Band	c. 100 kHz 85 – 115 kHz	c. 36 kHz 30 – 42 kHz	c. 36 kHz 30 – 42 kHz	c. 15 kHz 10 – 20 kHz	
SBP Centre Frequencies Band	4 – 15 kHz 2 – 22 kHz	2 – 7 kHz 1 – 10 kHz	2 – 7 kHz 1 – 10 kHz	0.8 – 3.8 kHz 0.5 – 6 kHz	
Primary Source Level Peak RMS	c. 247 dB 241 dB	c. 248 dB 242 dB	c. 248 dB 242 dB	c. 246 dB 240 dB	
Data Acquisition	24 bit @ 96 kHz	24 bit @ 96 kHz	24 bit @ 96 kHz	24 bit @ 96 kHz	
Range Resolution Depth Accuracy**	max. 5 cm 2 cm + 0.02% WD	max. 15 cm 5 cm + 0.04% WD	max. 15 cm 5 cm + 0.04% WD	max. 15 cm 15 cm + 0.08% WD	
Power	Supply Voltage	100 – 240 V AC	100 – 240 V AC	100 – 240 V AC	
	Consumption	typ. 250 W / max. 400 W	typ. 500 W / max. 900 W	typ. 500 W / max. 900 W	typ. 600 W / max. 1,000 W
Transceiver (Topside)	Dimensions	52 cm × 40 cm × 44 cm (19" / 9 U)	52 cm × 50 cm × 50 cm (19" / 10 U)	52 cm × 50 cm × 63 cm (19" / 13 U)	52 cm × 50 cm × 63 cm (19" / 13 U)
	Weight Protection	c. 44 kg IP20	c. 56 kg IP20	c. 65 kg IP20	c. 65 kg IP20
Transducer (Sonar Head)	Dimensions	39(49)* cm × 49 cm × 11 cm	75 cm × 80 cm × 16 cm	75 cm × 80 cm × 16 cm	123 cm × 135 cm × 34 cm
	Weight in Air Water	c. 35 (40)* kg 20 (22)* kg	c. 165 kg	c. 165 kg	c. 825 kg
	Depth Rating	surface	surface	surface	surface
	Mounting Frame	(50 cm × 60 cm × 20 cm 30 kg)	88 cm × 92 cm × 18 cm 80 kg	88 cm × 92 cm × 18 cm 80 kg	126 cm × 172 cm × 46 cm 100 kg
Cable	Length Weight	30 m c. 20 kg	2 × [30 m c. 22 kg]	6 × [30 m c. 22 kg]	8 × [30 m c. 22 kg]
	Connector	D 55 mm × L 95 mm (35 pins)	D 55 mm × L 95 mm (35 pins)	D 55 mm × L 95 mm (35 pins)	D 55 mm × L 95 mm (35 pins)
First / Latest Generation	2004 / 2024	2007 / 2024	2011 / 2026	2019 / 2026	
Optional Items (Selection)	<ul style="list-style-type: none"> • Underwater connector • KVM extender • Transducer shock mounts or hull mounting frame 	<ul style="list-style-type: none"> • Underwater connectors • TFT display • KVM extender • Transducer acoustic window 	<ul style="list-style-type: none"> • Underwater connectors • TFT display • KVM extender • Transducer acoustic window 	<ul style="list-style-type: none"> • Cables detachable from transducer • KVM extender • Transducer acoustic window 	

* dimensions and weight without (with) fairings

** 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

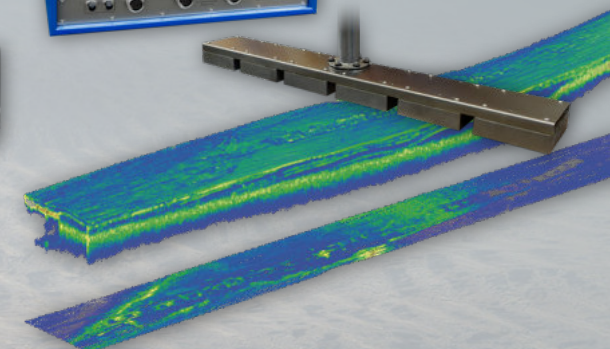
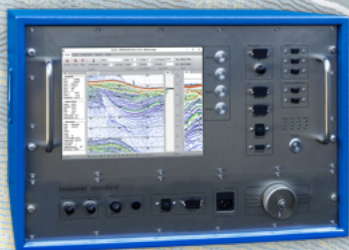
- when penetration matters
- water depths from shallow to full ocean depth (11,000+ m)
- beam width c. 2° – 3° for all frequencies
- all models with stabilised beam
- portable or hull-mounted

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)