



**essential**



**compact-usv**



**standard-usv**



**medium-usv**

<b>Depth Below Transducer</b>	0.5 – 200 m	0.5 – 400 m	0.5 – 500 m	2 – 2,000 m	
<b>Seabed Penetration</b>	up to 30 m	up to 40 m	up to 50 m	up to 70 m	
<b>Transmit Beam Width</b>	c. 4° (across) × 8° (along)	c. 4° × 4°	c. 4° × 4°	c. 2° × 2.5°	
<b>Motion Compensation</b>	heave & roll (±10°)	heave	heave & roll (±16°)	heave & roll (±16°)	
<b>Mean Primary Frequency   Band</b>	c. 100 kHz   85 – 115 kHz	c. 100 kHz   85 – 115 kHz	c. 100 kHz   85 – 115 kHz	c. 100 kHz   85 – 115 kHz	
<b>SBP Centre Frequencies   Band</b>	6 – 15 kHz   3 – 22 kHz	4 – 15 kHz   2 – 22 kHz	4 – 15 kHz   2 – 22 kHz	4 – 15 kHz   2 – 22 kHz	
<b>Primary Source Level Peak   RMS</b>	c. 236 dB   230 dB	c. 239 dB   233 dB	c. 241 dB   235 dB	c. 247 dB   241 dB	
<b>Data Acquisition</b>	24 bit @ 100 kHz	24 bit @ 100 kHz	24 bit @ 100 kHz	24 bit @ 100 kHz	
<b>Range Resolution</b>	max. 5 cm	max. 5 cm	max. 5 cm	max. 5 cm	
<b>Power</b>	Supply Voltage	24 (20 – 30) V DC	24 (20 – 30) V DC	24 (20 – 30) V DC	
	Consumption	typ. 20 W / max. 35 W	typ. 50 W / max. 100 W	typ. 80 W / max. 200 W	typ. 100 W / max. 300 W
<b>Transceiver (Topside)</b>	Dimensions	SIU: 17 cm × 13 cm × 5.5 cm	24 cm × 36 cm × 14 cm	45 cm × 36 cm × 18 cm	45 cm × 36 cm × 18 cm
	Weight   Protection	electronics within transducer	c. 6.5 kg   IP20	c. 16 kg   IP20	c. 18 kg   IP20
<b>Transducer (Sonar Head)</b>	Dimensions	26 cm × 15(22)* cm × 10 cm	27(34)* cm × 26 cm × 8 cm	27(34)* cm × 26 cm × 8 cm	39(49)* cm × 49 cm × 11 cm
	Weight in Air   Water	c. 8 (9.5)* kg   4 (4.5)* kg	c. 11 (13)* kg   7 (7.5)* kg	c. 11 (13)* kg   7 (7.5)* kg	c. 35 (40)* kg   20 (22)* kg
	Depth Rating	60 m	surface	surface	surface
<b>Cable</b>	Length**   Weight	8 (2 – 25) m   c. 1.5 kg	10 (7 – 15) m   c. 5 kg	10 (7 – 15) m   c. 8 kg	10 (7 – 15) m   c. 8 kg
	Connector	D 25 mm × L 60 mm (18 pins)	D 40 mm × L 85 mm (14 pins)	D 55 mm × L 95 mm (35 pins)	D 55 mm × L 95 mm (35 pins)
<b>First / Latest Generation</b>	2026	2024	2020 / 2024	2020 / 2024	
<b>Optional Items</b>	<ul style="list-style-type: none"> <li>Included in standard delivery:</li> <li>• Topside cable breakout box (SIU) with AC power supply</li> <li>• Transducer fairings</li> <li>• Transducer shock mounts</li> </ul>	<ul style="list-style-type: none"> <li>• Transceiver housing</li> <li>• Transducer connector</li> <li>• Transducer fairings</li> <li>• Transducer shock mounts</li> <li>• Transducer hull mounting frame</li> </ul>	<ul style="list-style-type: none"> <li>• Underwater connector</li> <li>• Transducer fairings</li> <li>• Transducer shock mounts</li> <li>• Transducer hull mounting frame</li> </ul>	<ul style="list-style-type: none"> <li>• Underwater connector</li> <li>• Transducer fairings</li> <li>• Transducer shock mounts</li> <li>• Transducer hull mounting frame</li> </ul>	

\* dimensions and weight without (with) fairings

\*\* cable length to be specified at time of order

# 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



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

## 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



- Innomar **medium-100** (100 / 4 – 15 kHz)
- Innomar **deep-36** (36 / 2 – 7 kHz)
- Innomar **deep-15** (15 / 1 – 5 kHz)

## Remotely Operated

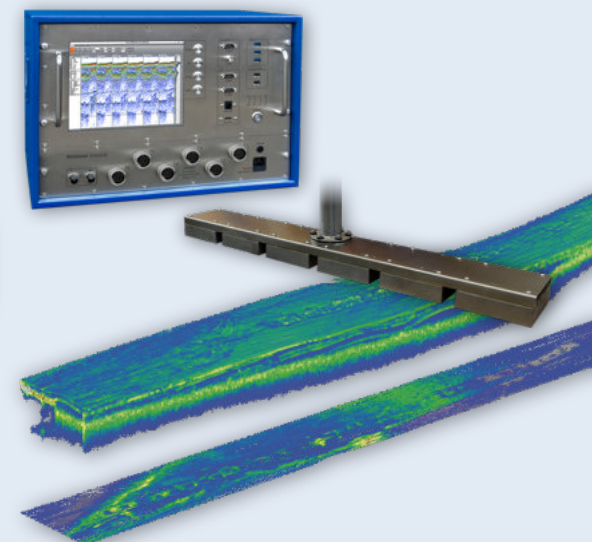
- remotely controlled and autonomous operation
- integration into all scales of USV and ASV
- rack-mounted and size optimised transceivers



- 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)

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