

SeaKing Sub-Bottom Profiler

Parametric Split-Head Sub-Bottom Profiler



Applications

- Site survey
- Route survey
- Pipeline crossing
- Wreck search
- Object detection

The specially designed transducer enables the echosounder to emit very low frequencies whilst minimising the size of the overall unit. Producing a 20kHz pulse, the system is capable of penetrating the seabed and highlighting structural differences that are hidden from view to conventional echosounders.

Benefits

- Robust, proven, reliable design
- Easy integration with SeaKing sensors
- Penetrate sea-floor and silt

Features

- Dual frequency operation
- Compact design
- Energy efficient
- ARCNET or RS232
- 1000 m depth rating

If you need to obtain a clear picture of what lies below the seabed, look no further than the SeaKing Parametric Sub-Bottom Profiler from Tritech. Sub-bottom profiling is now possible from this compact, low power, unit. Ideal for ROV and AUV use.

Part of the SeaKing range of sensors the Parametric Sub-bottom Profiler is easy to integrate into a sensor network using ARCNET or serial communication protocols. This allows all of the data from the suite of sensors to be displayed on one Surface Control Unit (SCU).

The display allows the operator to view the raw 200 kHz seabed profile or choose to view the 20 kHz sub-bottom layers produced by the parametric pulse or view both at the same time.

Key Specification	
Frequency	20 kHz & 200 kHz
Beamwidth	4.5° & 4°
Pulse length	100 µs
Weight in water	2.70 kg / 6.00 lbs

Acoustic	Low Frequency	High Frequency
Frequency	20 kHz	200 kHz
Beamwidth	4.5°	4°
Pulse length	100 µs	

Electrical and Communication

Power requirement	20 to 72 VDC at 8 W*
Communication protocols	ARCNET, RS232, RS485
Rate	ARCNET: 156 kbps (maximum) RS232 & RS485: 115.2 kbps (maximum)
ARCNET line driver	1500 m at 156 kbps 2500 m at 78 kbps
Connector type	Tritech 6-pin (standard)

Software

Software provided	Tritech Seagnet Pro or low-level direct command control
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Physical specification

Depth rating	1000 m / 3280.84 ft
Weight in air	Transducer: 3.4 kg / 7.50 lbs / Electronics Bottle: 3 kg / 6.61 lbs**
Weight in water	Transducer: 1.9 kg / 4.19 lbs / Electronics Bottle: 0.75 kg / 1.65 lbs**
Temperature rating (operating)	-10 °C to 35 °C / 14 °F to 95 °F
Temperature rating (storage)	-20 °C to 50 °C / 4 °F to 122 °F

Specification subject to change in line with Trittech's policy of continual product development

*The power consumption range quoted is accurate for a standalone unit and ignores cable losses.

** Tolerances: +/- 50 g

