Super SeaKing Profiler
Dual Frequency Profiling Sonar

Applications
- Pipeline and trench profiling
- Precision positioning of mattresses
- Storage tank survey
- Underwater surveying of bridge supports

The Super SeaKing dual frequency profiler uses the latest technological advances available in transducer design. A composite transducer technology has been used to ensure that this sonar offers substantially increased range and image resolution.

Benefits
- Dual frequency transducer
- Hard boot for protection
- Connector options available
- 4000m depth rating
- ARCNET, RS485 or RS232

Features
- Simultaneous use with SeaKing sensors
- Robust, reliable, proven design
- High quality profile data
- Easy system integration

Using side lobe suppression techniques, improved signal to noise reduction and a reduced beamwidth the Super SeaKing dual frequency profiler provides high quality profiling in a compact mechanical scanning sonar.

The Super SeaKing profiler uses a 1100kHz operating mode for high accuracy work at short ranges or in clear water. Additionally the Super SeaKing profiler is a dual frequency device, and when required a 600kHz operating mode can be used in water containing suspended particles. The lower frequency can also be used if longer ranges are required.

As part of the SeaKing suite of survey sensors the Super SeaKing dual frequency profiler can run simultaneously with a number of SeaKing sensors on one network.

Key Specification	
Operating frequency	1100kHz & 600kHz
Pulse length	20 - 200µs
Scanning resolution	0.45˚, 0.9˚, 1.35˚ 1.8˚
Minimum range	0.3m
Dimensions	300mm x 99mm / 11.82in x 3.90in
Weight in water	1.70kg /3.75lbs

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Acoustic specification	High frequency	Low frequency
Operating frequency	1.1MHz	600kHz
Beamwidth	1˚ conical	2˚ conical
Maximum range	40m	80m
Pulse length	20 - 200µs	
Minimum range	0.3m	
Scan resolutions	0.45˚, 0.9˚, 1.35˚ 1.8˚	
Source level	210dB re 1µPa at 1m	
Scanned sector	Up to 360˚	
Continuous 360˚ scan?	Yes	
Sector offset mode?	Yes	

Electrical and Communication

Power requirement	20 to 72V DC at 8W AUX port voltage equal to Main portsupply
Communication protocols	ARCNET, RS485, RS232 (single head only)
Communication rate	ARCNET: 156kbit·s-1, 78kbps RS232 & RS485 : 115.2kbps
ARCNET line driver	1500m at 156kbps 2500m at 78kbps

Physical specification

Depth rating	4000m / 13,124ft
Weight in air	3.50kg / 7.72lbs
Weight in water	1.70kg / 3.75lbs
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
Materials	Boot: Acetal copolymer Body tube: Anodised aluminium alloy (6Al4V Titanium optional)

Specification subject to change in line with Tritech's policy of continual product development
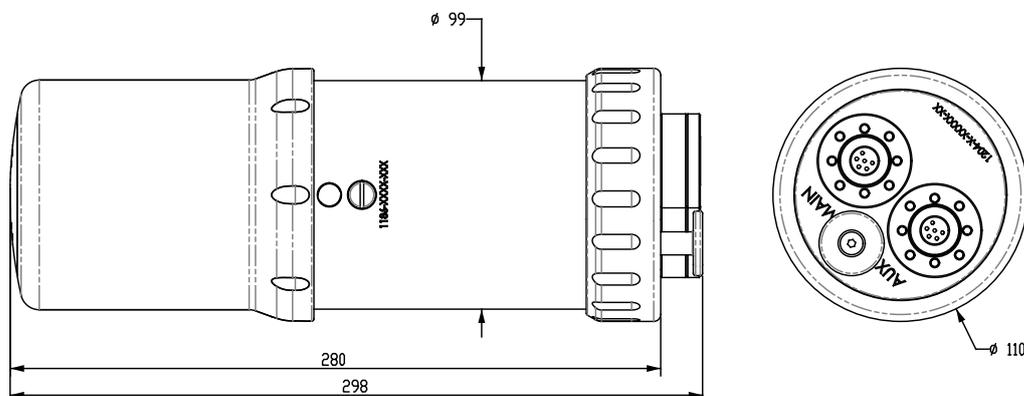
Not to scale. Measurements in mm.