Super SeaPrince DST

Compact Imaging Sonar

Advanced CHIRP signal processing for clear and high resolution imagery

The Super SeaPrince DST sets new standards in sonar technology, offering the same industry standard features as the Super SeaKing sonar, in a compact design. Broad band frequency response from 500kHz up to 900kHz, for maximum range and higher resolution in a single channel sonar.

The Super SeaPrince DST is available in two configurations; single or dual port pressure housings. Using ARCNET communication the sonar can run alongside other Tritech products from the SeaKing range, as well as accepting inputs from third-party sensors and displaying all the data on one display.

Built to the highest quality standards and with a hard boot to protect the transducer, the Super SeaPrince is specifically designed for deployment in survey, observation and light work class ROV applications.

Operation can be achieved using the Tritech Surface Control Unit (SCU) or SeaHub connected to a computer via USB. For full ARCNET communication capability the sonar can be operated with the Tritech Surface Control Unit (SCU), or a PC with a Tritech SeaHub. When used in a stand-alone configuration the sonar can be run using RS232 or RS485 protocols.

Benefits

- Compact and robust design
- Hard boot provides extra protection
- Wide bandwidth
- High resolution

Features

- 4000m depth rating
- CHIRP sonar tuned to 675kHz
- True acoustic zoom
- Instant scan reversal
- ARCNET, RS232 and RS485
- Single or dual port option

Applications

- Survey and observation
- Light work-class ROV
- Obstacle avoidance
- Port and harbour surveillance

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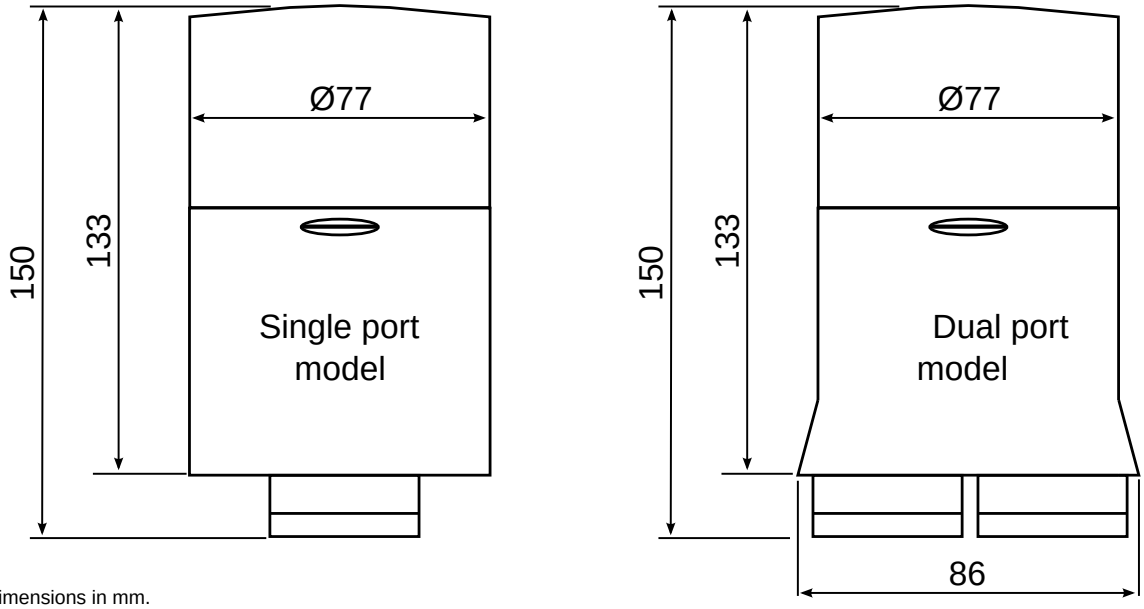
Specification



Not to scale, dimensions in mm.

Acoustic	
Operating frequency	Maximum bandwidth 500kHz to 900kHz (default of 675kHz)
Beamwidth	38° vertical, 2.3° horizontal
Maximum range	100m
Minimum range	1m
Resolution (step size)	0.45°, 0.9°, 1.8°, 3.6°
Pulse length	200µs

Electrical and Communications	
Power requirement	12 to 36V DC at 10VA (18 to 56V DC optional)
Supported protocols	ARCNET, RS232, RS485
Communication rate	ARCNET: 156kbit·s^{-1} (maximum) RS232/RS485: 115.2kBd (maximum)

Physical	
Weight in air (single port model)	1kg
Weight in air (dual port model)	1.05kg
Weight in water (single port model)	0.39kg
Weight in water (dual port model)	0.44kg
Depth rating	4000m
Temperatures	-10 to 35°C operating (-20 to 50°C storage)

Specifications subject to change according to a policy of continual development.

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