

Super SeaPrince DST

Compact Imaging Sonar



Applications

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

The Super SeaPrince DST is a compact sonar with many of the features and capabilities of the industry leading Super SeaKing DST. The broadband transducer within the Super SeaPrince DST allows it to be tuned between 500kHz up to 900kHz, for maximum range and higher resolution in this single frequency sonar.

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

Utilising the latest electronics and composite transducer technology the Super SeaPrince DST provides increased target definition at all ranges. Compressed High Intensity Radar Pulse (CHIRP) technology dramatically improves the range resolution, providing greater definition at long range, compared with conventional sonars.

Supplied as standard with two connectors, the Super SeaPrince DST can accommodate auxiliary inputs on this second connector. This allows the user to input data from third-party sensors without the need for additional channels on the communication interface. Using ARCNET communication the Super SeaPrince DST can run alongside other Trittech products from the SeaKing range, with all data displayed on the industry recognised Seonet Pro logging and control software. The latest Genesis software package can also now accommodate the Super SeaPrince DST, as well as a range of other Trittech sensors.

Key Specification	
Operating frequency	Maximum bandwidth 500kHz to 900kHz (default of 675kHz)
Range	1m - 100m / 3.28ft - 328ft
Power requirement	20V to 72V DC at 10VA (12V to 24V DC optional)
Depth rating	4000m / 22,310ft
Weight in water	0.44kg / 0.98lbs

Acoustic Specifications

Operating frequency	Maximum bandwidth 500kHz to 900kHz (default of 675kHz)
Beamwidth	38° vertical, 2.3° horizontal
Pulse length	200µs
Range	1m - 100m / 3.28ft - 328ft
Mechanical resolution	0.45°, 0.9°, 1.8°, 3.6°

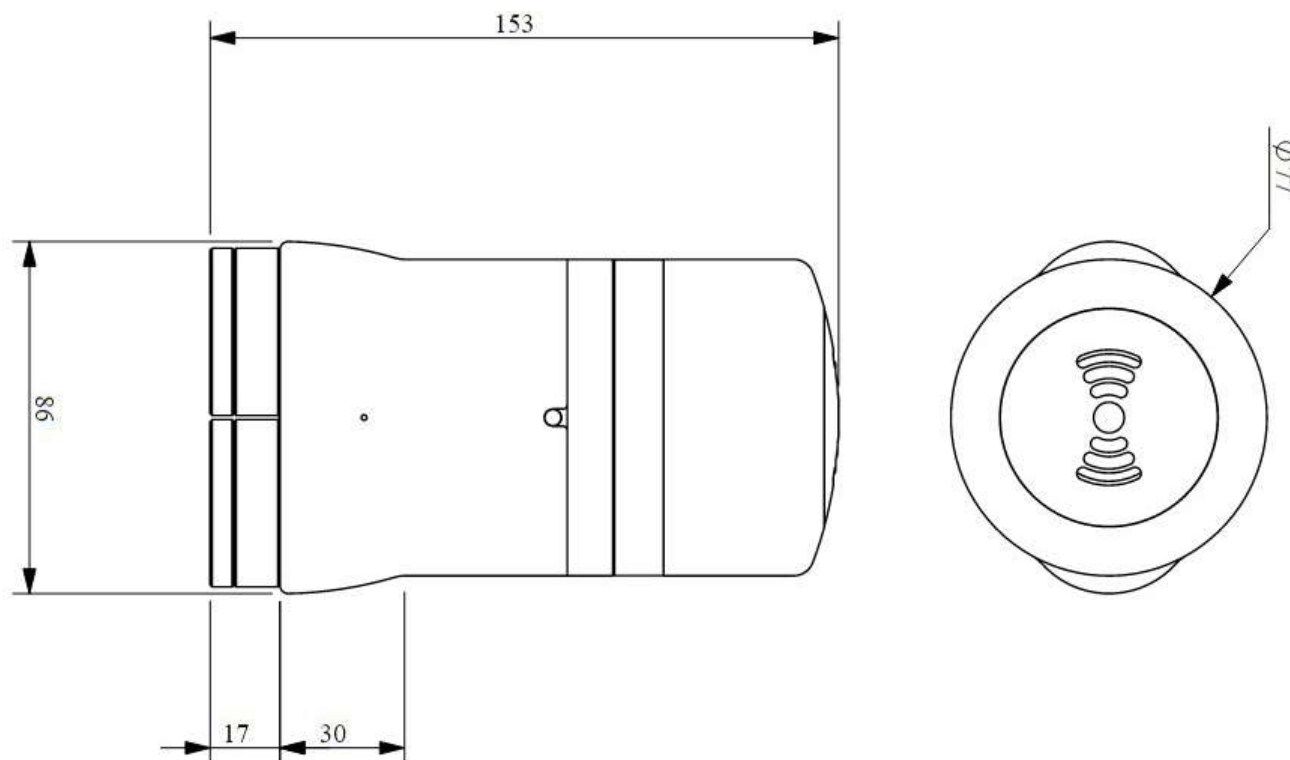
Electrical and Communications

Power requirement	20V to 72V DC at 10W (12V to 24V DC optional)
Supported protocols	ARCNET, RS232, RS485
Communication rate	ARCNET: 156kbps (maximum) RS232/RS485: 115.2kbps (maximum)

Physical specification

Depth rating	4000m / 13,124ft
Weight in air	1.05kg / 2.32lbs
Weight in water	0.44kg / 0.98lbs
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 Tritech's policy of continual product development



Not to scale. Measurements in mm.

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