

Super SeaPrince DST

Compact Mechanical Imaging Sonar

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.

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 Seagnet 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.



Benefits

- Light work-class ROV
- Obstacle avoidance
- Survey and observation
- Target identification
- Harbour and port surveillance
- Hard boot provides extra protection

Features

- Wide bandwidth
- High resolution
- CHIRP sonar tuned to 675kHz
- 4000m depth rating
- True acoustic zoom
- Instant scan reversal
- ARCNET, RS232 and RS485

Key Specification

Operating frequency	Maximum bandwidth 500 kHz to 900 kHz (default of 675 kHz)
Range	1 - 100 m / 3.28 - 328 ft
Depth rating	4000 m / 13123 ft
Power requirements	20 to 72 Vdc at 10 VA (12 to 24 Vdc optional)
Main port protocol	ARCNET / Serial (RS232 / RS485)

Acoustic Specifications

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

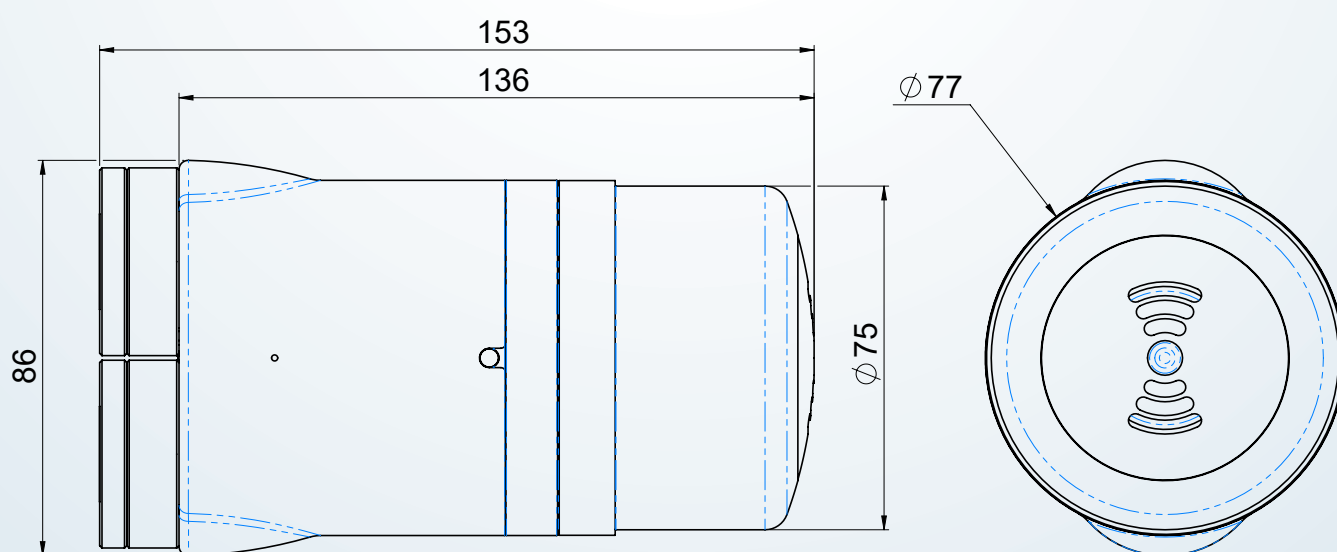
Electrical and Communications

Power requirement	20 to 72 Vdc at 10 W (12 to 24 Vdc optional)
Supported protocols	ARCNET or Serial (RS232 / RS485)
Communication rate	ARCNET: 156 kbps (maximum) RS232/RS485: 115.2 kbps (maximum)
Connectors	2x Trittech 6-pin waterblock

Physical Specification

Depth rating	4000 m / 13123 ft
Weight in air	1.05 kg / 2.32 lbs
Weight in water	0.44 kg / 0.98 lbs
Temperature rating (operating)	-10 to +35 °C / -14 to +95 °F
Temperature rating (storage)	-20 to +50 °C / -4 to +122 °F

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



Not to scale. Measurements in mm.