



SeaKing ROV/AUV DST Sidescan Sonar

Features

- 4,000 metre standard depth rating
- Extremely cost effective
- Low power and data rates - ideally suited for AUV survey
- Compatible with SeaKing product family

Applications

- Deep survey where towfish sidescan cannot be easily deployed or tracked
- Coastal surveys
- Military mine counter measures
- Shipwreck location
- Pipeline and route surveys
- River, harbour and canal surveys



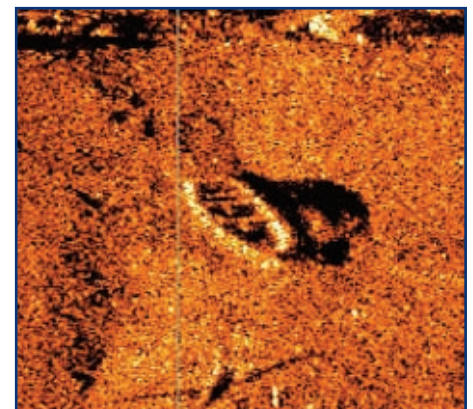
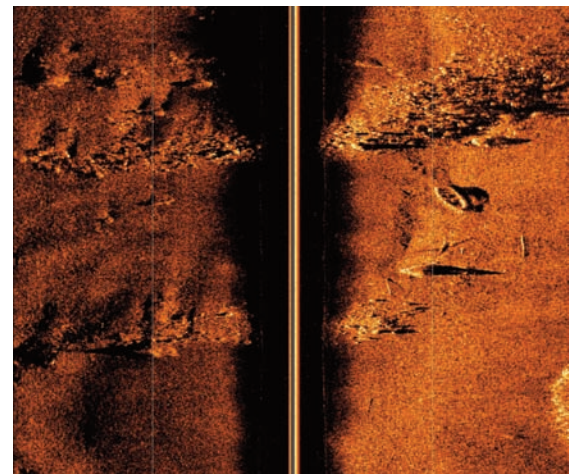
The SeaKing ROV/AUV Mounted Sidescan Sonar System is an extremely compact and cost effective high definition sidescan sonar designed for a wide range of seabed survey and inspection duties.

The SeaKing ROV/AUV combines the very latest Tritech DST (Digital Sonar Technology) electronics with industry leading transducer design and digital CHIRP signal processing techniques to dramatically improve range resolution and generate sonar images of unprecedented clarity.

In common with all Tritech sonars, the SeaKing sidescan may be connected to a SeaKing SCU surface control unit, or most PC's. In addition to the display of sidescan data, the system will take position input from GPS. This information is recorded with the sonar data to allow a "fix" of a target. The customer's own bit map chart may be displayed in a window on the same screen as the sonar data, with an updating sonar position display.

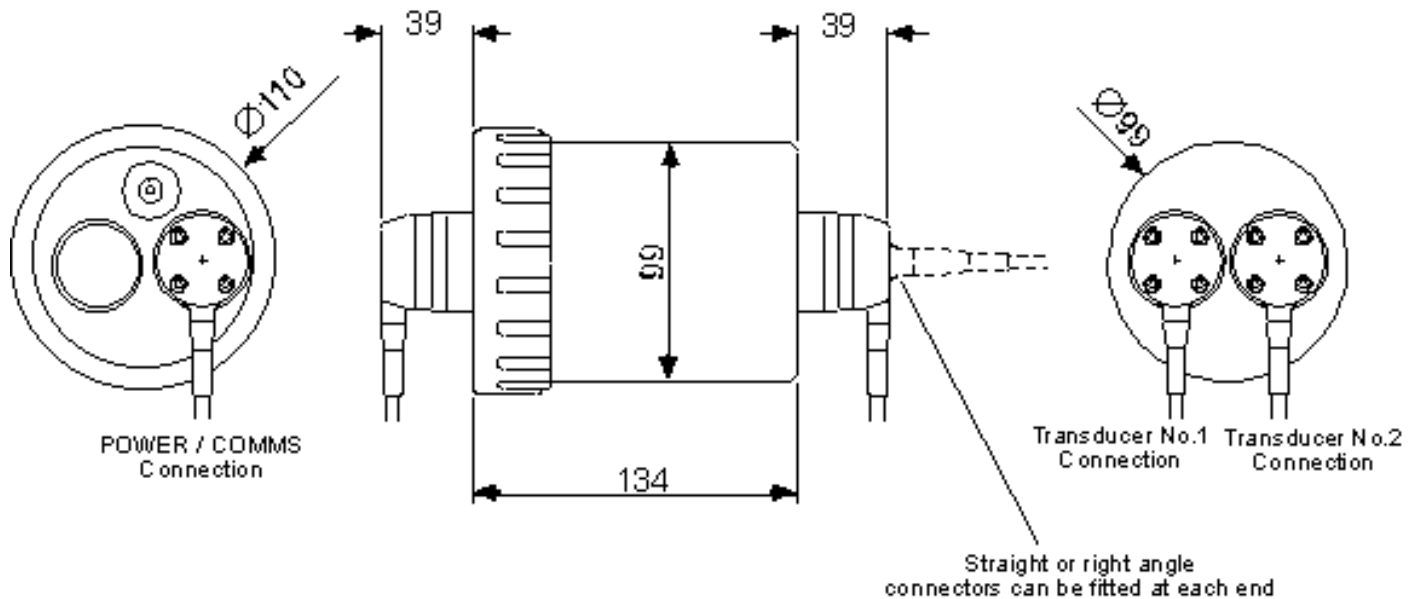
The unit is supplied as two separate transducers and an electronics module suitable for integration into most ROVs and AUVs. The SeaKing communications protocol allows it to be operated with other Tritech SeaKing underwater sensors, such as scanning sonars, profilers and bathymetry systems over a single communications link.

The post processing export facility will convert the logged data to XTF and CSV formats for third party software packages.



Boat found in Estonian harbour using low frequency sonar at 20 metre range.

Specifications



Frequency of Operation	325kHz	675kHz
Horizontal Beamwidth (-3dB)	1°	0.5°
Vertical Beamwidth (-3dB)	50°	50°
Weight in air	5.3kg	
Weight in water	2.7kg	
Depth Rating (Standard)	4000 metres	
Power Requirements	18-36V@12VA	
Cable connector	Tritech Sonar Connector	
Transmitter Source Level	200 dB re 1uP @ 1 metre	
Transmitter Pulse Length	50 - 200 microseconds	
Receiver Sensitivity	Better than 2uVrms	
Gain Control Range	80 dB	
Display Dynamic Range	40 dB (User Configurable)	
Data Sampling Rates	5 - 200 microseconds	
Data Resolution	4 - 8 bits (User Configurable)	
Software	Tritech Seanet display and control or low level direct command protocol	
Data Log Format	Proprietary Tritech "V4Log" Exports to XTF, TIFF, GeoTIFF & Google Earth "kMZ" available via converter	
Communication Protocols	Arcnet, RS-232	
Communication data rates	RS232 up to 115.2 kbaud, Arcnet 156 or 78 kbaud	
Printer (optional)	Thermal Printer Interface	

All specifications are subject to change in line with Tritech's policy of continual product development.

Ref: EDS-SID-001.10