

ROV / AUV Side Scan

SeaKing Side Scan Sonar



Applications

- Deep water surveys
- Military mine counter measures
- Shipwreck location and survey
- Pipeline and route surveys
- River, harbour and canal surveying
- Simple integration into subsea vehicles

The unit is supplied as two separate transducers and a subsea electronics module suitable for integration into most vehicles. The system communicates and is controlled over an RS232, RS485 or Tritech ARCNET connection. Using an ARCNET connection the system can be integrated with other Tritech SeaKing underwater sensors such as scanning sonars, profilers or bathymetric systems and connected to the surface over a single communications link.

Benefits

- Robust, compact, reliable design
- Easy system integration
- Export to XTF, TIFF, GeoTIFF
- Export to Google Earth KMZ

Features

- 4000m depth rating
- Cost effective design
- Low power usage
- High data rate
- Compatible with SeaKing range
- High and low frequency options

The SeaKing ROV mounted side scan sonar is an extremely compact and cost effective high definition sidescan sonar designed for a wide range of seabed survey and inspection duties. Combining the very latest in digital sonar technology with industry leading transducer design and digital CHIRP signal processing techniques dramatically improves range resolution and generates sonar images of unprecedented clarity.

The ROV side scan can be connected to a Surface Control Unit (SCU) or a normal PC/ laptop through a SeaHub or serial connection.

In addition to displaying the sidescan data the system can record and combine the data with positional information from an external GPS sensor. This allows accurate fixing of features on the sonar scan. The logged sonar data can be exported to a variety of standard formats include XTF, CSV, GeoTIFF or Google Earth KMZ format.

Key Specification	
Operating frequency	325kHz & 675kHz
Maximum range	200m / 656.20ft
Depth rating	4000m / 13,123.36
Weight in water	1.60kgs & 0.54kgs / 3.53lbs & 1.20lbs

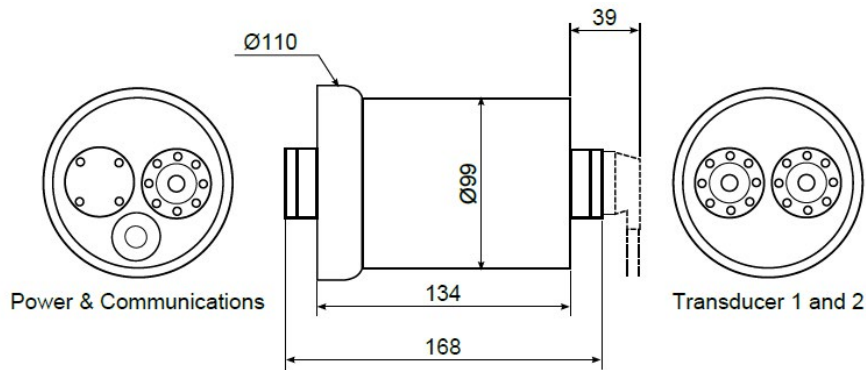
Acoustic specifications	Low Frequency	High Frequency
Operating frequency	325kHz	675kHz
Beamwidth	30° vertical, 1° horizontal	30° vertical, 0.5° horizontal
Maximum range	200m	100m
Pulse length	400µs	200µs

Electrical and Communications specifications	
Power requirements	20 to 72V DC at 12W
Communication protocols	ARCNET, RS232, RS485

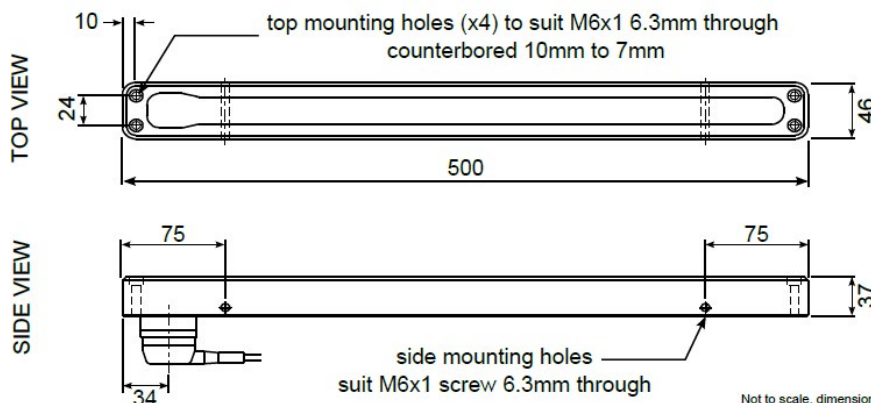
Software	
Software	Tritech Seanet Pro or low level direct command control
Data log format	Tritech V4Log as standard Export to XTF, TIFF, GeoTIFF and Google Earth KMZ via converter

Physical specifications	Electronics pod	Transducers
Connector type	Tritech 6-pin waterblock	
Weight in air	2.50kg / 5.52lbs	1.40kg / 3.09lbs*2
Weight in water	1.60kgs / 3.53lbs	0.54kgs / 1.20lbs
Depth rating	4000m / 13,123.36	
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, dimensions in mm.



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