

The **SeaKing Towfish Sonar System** is an extremely compact and cost effective high definition sidescan sonar system. It is designed for a wide range of seabed survey and inspection duties.

Units are available with two operating frequencies. The high frequency **675kHz** has the greatest resolution and a useful range out to **75 metres** on either side of the tow track. The mid frequency **325kHz** has a useful range in excess of **200 metres** either side.

The sonar 'fish' is designed to tow cleanly and with excellent stability under all towing conditions.

The fish is fitted with durable Polycarbonate stabiliser fins. In the event of ground contact, the fins will break away and are retained for recovery by a shock cord line.

The fish has a weak link and safety recovery line. If it hits an obstruction the weak link will part but the 'fish' will not be lost. The towfish is small and light and may be manually deployed and operated by a single person from very small boats thus making it ideal for inshore and coastal applications.

In common with all Tritech sonar systems, SeaKing sidescans may be connected to a **SeaKing SCU** surface control and display unit or most PC's. In addition to the display of sidescan data, the system will take position input from DGPS. 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 on the same screen as the sonar data.

All data produced by the subsea towfish is processed **within** the fish and transmitted to the surface in **digital** format. All data may be stored on the **built-in hard disk drive**, in the surface control unit.



Features

- Extremely cost effective
- Easy to deploy and recover
- Low power and data rates
- Compatible with SeaKing product family

Applications

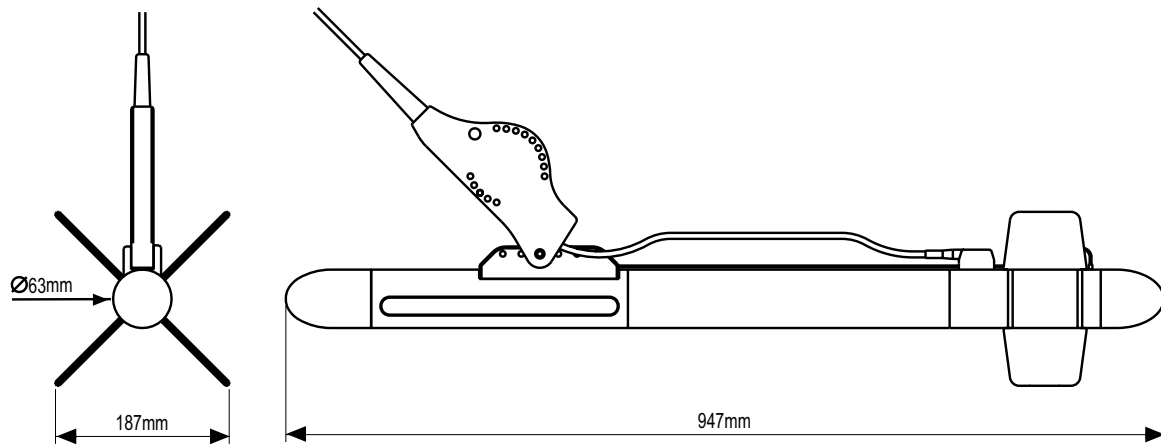
- Coastal surveys
- Military mine counter measures
- Salvage operations & treasure hunting
- Pipeline and route surveys
- River, harbour and canal surveys



WW2 vessel which sank around 1943 in 38 metres of water

Tritech SeaKing Towfish SKTF325 or SKTF675

Specification



Frequency of Operation	325kHz	675kHz
Horizontal Beamwidth (-3dB)	2°	1°
Vertical Beamwidth (-3dB)	50°	50°
Weight in air	7.0 kg	
Weight in water	4.1 kg	
Depth Rating (Standard)	200 metres	
Power Requirements	24 VDC @ 12VA	
Cable connector	Standard Kevlar reinforced cable for manual deployment to depths of 50m (6.7mm diameter)	
Transmitter Source Level	200 dB re 1 uPascal at 1 metre	
Transmitter Pulse Length	50 - 200 microseconds.	
Receiver Sensitivity	Better than 2 microvolts R.M.S.	
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)	
Communication Protocols	Arcnet, RS-232	
Communication data rates	RS232 up to 115.2 kbaud, Arcnet 156 kbaud	
Printer	Thermal Printer Interface	

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

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