

Ultra Compact / Tuneable Frequency

If the new generation of very small and low cost ROVs are to develop their full potential it is essential they are equipped with the vital tools and sensors expected on larger ROVs. Along with the camera, the most important sensor for any vehicle is its obstacle avoidance sonar.

The **Tritech Micron** sets new standards in compact sonar technology. Based on experience gained from Tritech's world class range of industry standard SeaKing and SeaPrince sonars, the Micron incorporates the most advanced acoustic features and software available today.

The sonar can be controlled by a customer supplied PC or laptop and it can be configured for either RS232 or RS485 protocols. Micron has a standard auxiliary port to allow it to interface with future Tritech sensors.

This sonar incorporates the very latest surface mounted electronics and many software features normally found only on full sized commercial systems. Tritech believe that although the Micron is small in both size and cost it should offer the full range of functionality expected from a professional product.



Actual size!

Features

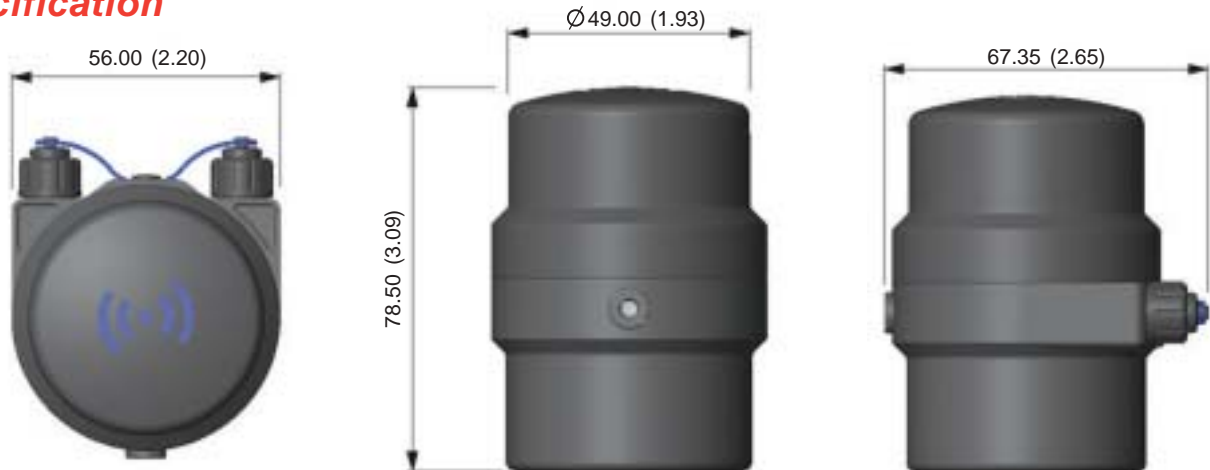
- ❑ Extremely compact - our smallest sonar yet
- ❑ Full software functionality
- ❑ True acoustic zoom
- ❑ Instant scan reversal and sector scan options
- ❑ Inverted mode operation
- ❑ Hard boot protection for transducer
- ❑ Cost effective and reliable
- ❑ Target size measurement
- ❑ Simple to operate

Applications

- ❑ Small ROV obstacle avoidance and target recognition
- ❑ AUV guidance

Tritech Micron

Specification



All measurements in millimetres (inches)

Operating frequency	Tuneable through 650kHz to 950kHz Other frequency bands available on request
Beamwidth, vertical	38° (at 650kHz) 30° (at 800kHz) 26° (at 950kHz)
Beamwidth, horizontal	3.3° (at 650kHz) 2.6° (at 800kHz) 2.2° (at 950kHz)
Range settings	From 2m (6ft) to 75m (250ft)
Scan sectors	User selectable up to 360° continuous
Step speed	Normal, Fast or Super Fast
True acoustic zoom	Yes
Instant reversal	Yes
Image measurement	Yes
Inverted head operation	Yes
Power requirements	12V - 50V @ 4.5 VA
Data communication	RS 485 (twisted pair), RS 232 (via modem up to 115kb/s)
Communication requirements	Maximum cable length 1000 metres (using RS 485)
Topside control	Customer supplied PC or Laptop using standard serial comms port. Windows 98, 2000 or XP Operating System. Also PDA with Pocket PC Operating System.
Software	Tritech SeaNet(OEM) display and control or low level direct command protocol, or SeaNet Pocket PC.
Maximum diameter	56mm (2.20 inches)
Maximum height	78.5mm (3.09 inches)
Weight in air	290g (10.25 ounces)
Weight in water	145g (5.15 ounces)
Maximum operational depth	500m (1,650ft) standard
Operating temperature	-10°C to +35°C
Storage temperature	-20°C to +50°C

***NB The Tritech Micron is intended only for use on vehicles with voltage spike protection on power supplies and comms lines.**

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

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