



# SeaSprite DST Sonar

## Ultra Compact CHIRP Digital Sonar

VideoRay is an excellent example of the new generation of small and cost effective ROVs. For VideoRay to develop its full potential it must be 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 all new VideoRay SeaSprite DST (Digital Sonar Technology) sets new standards in compact subsea acoustic products. It is the smallest digital CHIRP sonar in the world. SeaSprite's CHIRP technology dramatically improves range resolution compared with conventional sonars - it is a feature normally associated with much larger and more expensive systems.

Based on experience gained from Tritech's world class range of Super SeaKing and SeaPrince sonars, the SeaSprite DST 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. SeaSprite DST has an auxiliary port to allow it to interface with other Tritech sensors such as altimeters and tracking systems.

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



ACTUAL SIZE!

### Features

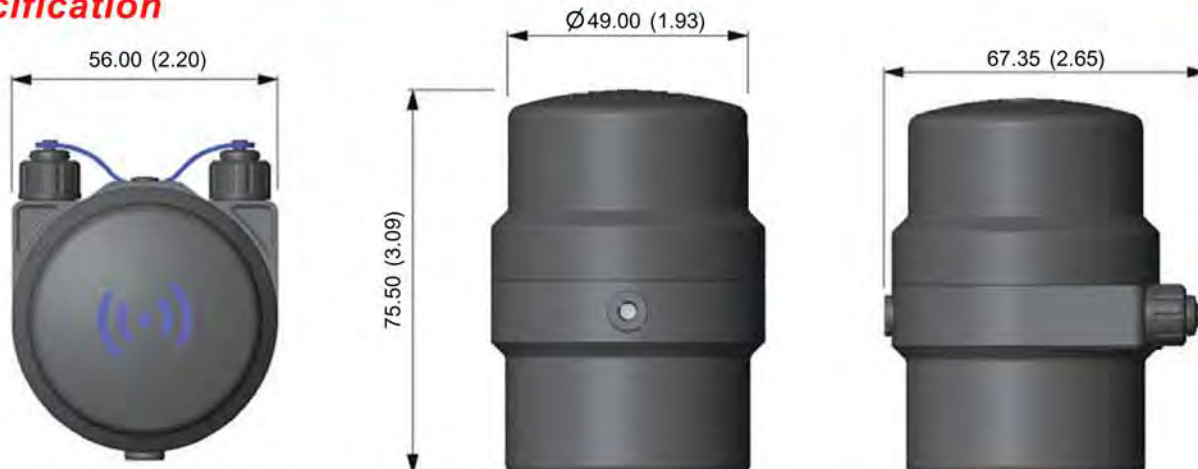
- Extremely compact
- Digital CHIRP system
- Full software functionality
- True acoustic zoom
- Instant scan reversal and sector scan options
- Inverted mode operation
- Hard boot protection for transducer
- Cost effective and reliable
- Target size measurement
- 500m depth rating
- Simple to operate

### Applications

- VideoRay obstacle avoidance and target recognition system

# ***Tritech SeaSprite DST***

## ***Specification***



All measurements in millimetres (inches)

<b>Operating frequency</b>	Chirped 650kHz to 750kHz Other frequency bands available on request
<b>Beamwidth, vertical</b>	35°
<b>Beamwidth, horizontal</b>	3°
<b>Range settings</b>	From 6ft (2 metres) to 250ft (75 metres)
<b>Scan sectors</b>	User selectable up to 360° continuous
<b>Step speed</b>	Normal, Fast or Super Fast
<b>True acoustic zoom</b>	Yes
<b>Instant reversal</b>	Yes
<b>Image measurement</b>	Yes
<b>Inverted head operation</b>	Yes
<b>Power requirements</b>	12V - 50V @ 2.5 VA
<b>Data communication</b>	RS 485 (twisted pair), RS 232 (via modem up to 115kb/s)
<b>Communication requirements</b>	Maximum cable length 1000 metres (using RS 485)
<b>Surface control</b>	Customer supplied PC or laptop using standard serial communications port. Windows 2000 or XP Operating System.
<b>Software</b>	Tritech SeaNet(OEM) display and control or low level direct command protocol
<b>Maximum diameter</b>	56mm (2.20 inches)
<b>Maximum height</b>	75.5mm (3.0 inches)
<b>Weight in air</b>	290g (10.25 ounces)
<b>Weight in water</b>	145g (5.15 ounces)
<b>Maximum operational depth</b>	500m (1,650ft) standard (3000m optional)
<b>Operating temperature</b>	-10°C to +35°C
<b>Storage temperature</b>	-20°C to +50°C



**\*NB The Tritech SeaSprite DST is only for use on vehicles with voltage spike protected power supplies and communication lines.**

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

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