Super SeaPrince DST

Benefits

- Small form, simplifying installation
- Hard Boot for extra protection against impact
- Wide bandwidth sonar
  - resulting in high resolution imagery

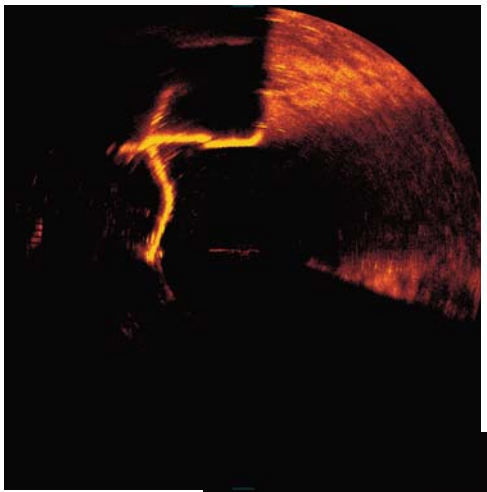
Features

- Depth rated to 4000m
- Digital CHIRP sonar system tuned to 675kHz
- True acoustic zoom
- Instant scan reversal
- Forward looking sonar, 360° sonar and sector scan sonar modes
- Inverted sonar head operation
- Flexible comms: ArcNet RS485 and RS232
- Available in single or dual port housing

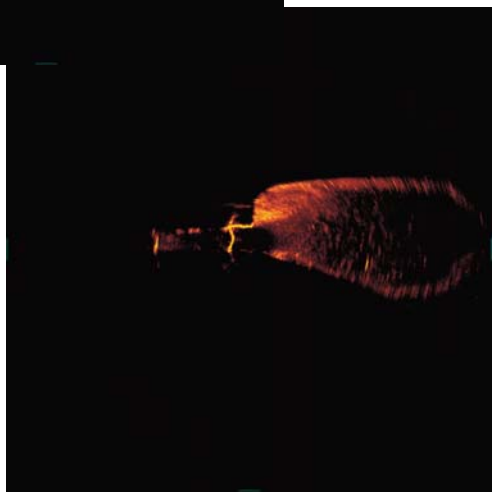
Applications

- Survey, observation and light work-class ROV
- AUV / ROV obstacle avoidance and target recognition sonar
- Port and harbour surveillance

Super SeaPrince DST, dual port housing configuration



Dock gates at Ulverston Canal, Cumbria, UK as visible at 30m



Dock gates at Ulverston Canal, Cumbria, UK as visible at 100m

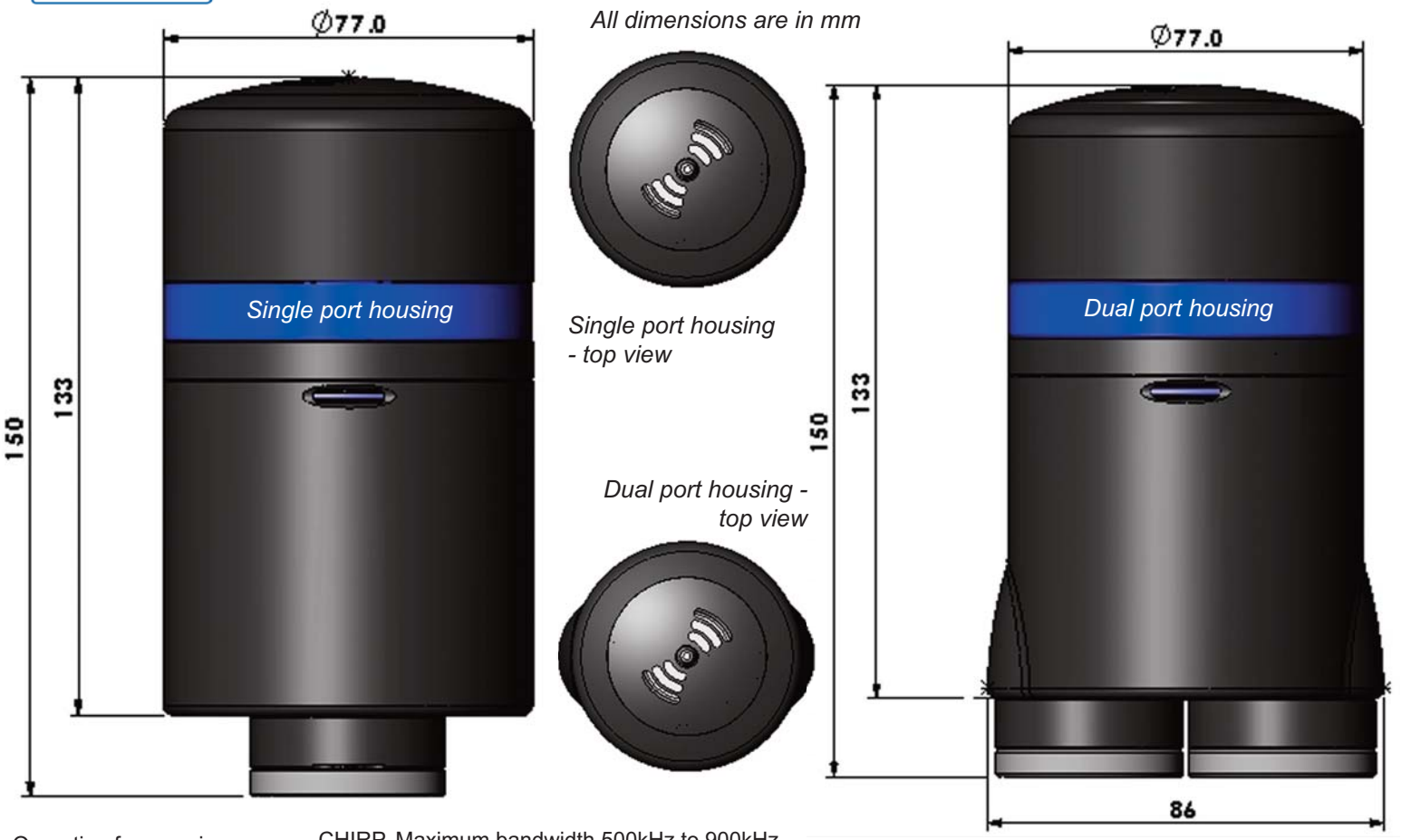
The Super SeaPrince DST (Digital Sonar Technology) sets new standards in sonar technology; its advanced composite transducer and CHIRP signal processing generates images of unprecedented clarity and resolution. The Super SeaPrince DST has been developed from Tritech's original range of SeaPrince Sonars and the industry standard SeaKing and Micron DST sonars.

Built to the highest quality standards and with a hard boot to protect the transducer, the Super SeaPrince DST is specifically designed for deployment in survey, observation and light work class ROV applications.

The Super SeaPrince DST is available in two configurations; single or dual port pressure housings. The Super SeaPrince can run simultaneously with the SeaKing range and other Tritech or third-party products within the ArcNet communications link, using the same processor and display.

The Super SeaPrince DST can be operated by Tritech's Surface Control Unit (SCU) or a customer supplied PC or laptop.

SPECIFICATION



Operating frequencies	CHIRP. Maximum bandwidth 500kHz to 900kHz	
Beamwidth	*Vertical* 38° at 675kHz	*Horizontal* 2.3° at 675kHz
Range settings	From 1m [3.2ft] to 100m [320ft]	
Scan sectors	User selectable up to 360° continuous	
Step size	0.45°, 0.9°, 1.8° & 3.6° presets	
True acoustic zoom	Yes	
Instant reversal	Yes	
Image measurement	Yes	
Inverted head operation	Yes	

INTERFACE

Power requirements	9V - 36VDC @ 10VA, (18-56 VDC option available)	
Data communication	RS485 [twisted pair or modem] ArcNet [twisted pair up to 156kb/s]	RS232 [via modem up to 115kb/s]
Comm. requirements topside	Max. cable length 2500m [using ArcNet] SCU/ customer	PC/Laptop using std. serial comms, Win 2000/ XP/ 7
Software	Tritech Seanet Pro advanced control and logging/ low level direct command protocol	

MECHANICAL

	Single Port Option	*Dual Port Option*
Maximum diameter	77mm	77mm on body tube and 86mm at base
Maximum height	150mm	150mm
Weight in air	1.0kg [2.2lb]	1.05kg [2.3lb]
Weight in water	0.39kg [0.8lb]	0.44kg [0.9lb]
Maximum operational depth	4000m [13123ft]	4000m [13123ft]
Temperature	*Operating*	*Storage*
	-10°C to +35°C	-20°C to +50°C

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

Ref: EDS-SON-006.8

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