



SeaKing Hammerhead DST SONAR

The SeaKing Hammerhead utilises a wide transducer aperture, very fine mechanical step size and proven Digital Sonar Technology (DST) to create high resolution imagery.

The latest addition to the SeaKing family of imaging scanning sonars, the Hammerhead can be easily networked with other SeaKing equipment.



Benefits

- Smaller targets easier to identify
- Built in compass for absolute bearing reference
- 4000m depth rating
- Attitude sensors to allow accurate positioning
- Unique dual seal arrangement for increased reliability
- Reduced downtime
 - transducer assembly easy to replace

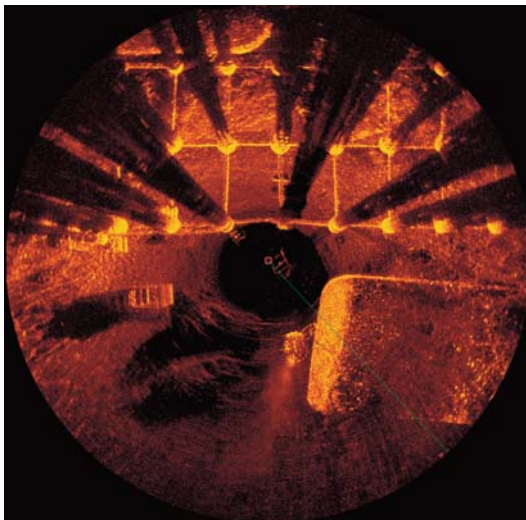
Features

- Twice the resolution than other mechanical sonars
- DST (Digital Sonar Technology)
- Ultra-narrow horizontal beam angles for maximum resolution
- Dual channel, dual frequency operation
- 675kHz for large area survey up to 100m
- 935kHz for high definition target examination at up to 40m
- Integral Attitude Sensor for static and dynamic deployment information
- Geo-referenced plotter display
- Motor-driven shaft uses a unique dual seal arrangement for maximum reliability in adverse conditions

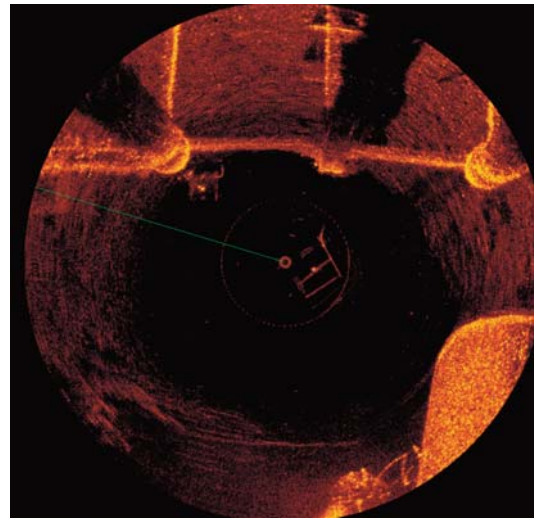
Applications

- Static seabed deployment for tasks including: area survey, object location, diver monitoring
- Civil engineering projects such as bridge pier inspection
- ROV deployed for tasks including mattress lay, debris clearance

Pier structure at The Underwater Centre, Fort William: 30m



Pier structure at The Underwater Centre, Fort William: 10m





SPECIFICATION

ENVIRONMENTAL CHARACTERISTICS AND MATERIALS

ACOUSTIC CHARACTERISTICS

	Low frequency channel	High frequency channel
Operating frequency (CHIRP centre freq.)	675kHz	935kHz
Beamwidth, vertical	30°	20°
Beamwidth, horizontal	0.9°	0.6°
Maximum range	100 m	40 m
Minimum range	0.4m	
Acoustic range resolution	15 mm	

(Above range resolution may be limited by the available display resolution)

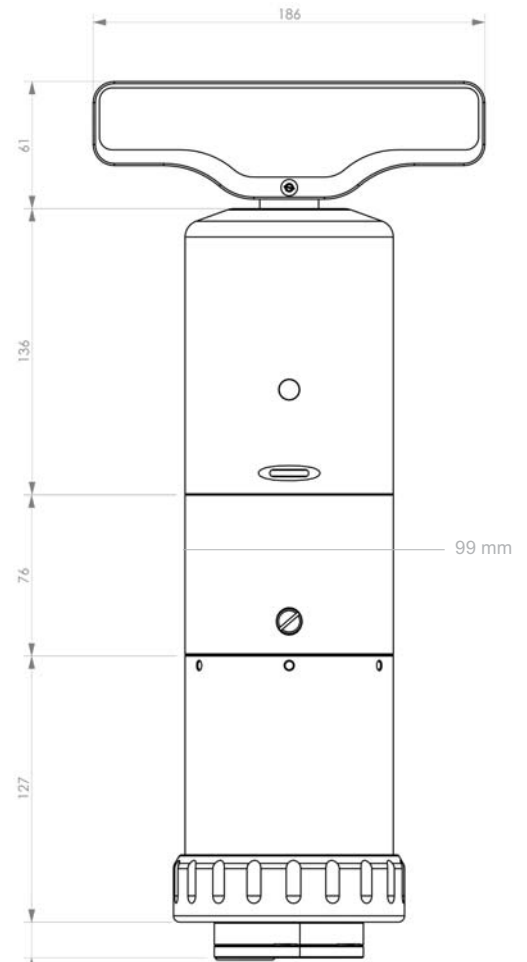
Operating temperature range	-10° C to 35° C
Storage temperature	-20° C to 50° C
Maximum operational depth	4000m
Weight in air	6.75 kg
Weight in water	3.76 kg
Body materials:	aluminium alloy, 6082/ HE30

SONAR DISPLAY CHARACTERISTICS

Range selections	2m to 100m
Scan resolutions	0.225°, 0.45°, 0.9°, 1.8°
Scanned sector	Variable to 360° and bidirectional
Continuous 360° scan	Yes
Offset sector scan	Yes
Attitude information	Angle sonar body to vertical (2 axes)
Heading information	Sonar heading with transducer in straight head position

ELECTRICAL AND COMMUNICATIONS CHARACTERISTICS

Operating voltage	18 to 36VDC
Power requirement	30W
Communication protocols	RS232 RS485 ArcNet
Connector options	<ul style="list-style-type: none"> Standard MAIN & AUX connector: Tritech 6 pin with waterblock Other options available on request



MAX CONNECTOR PROFILE 17mm

All dimensions in mm

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

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