

SeaKing Hammerhead

High Resolution Survey Sonar



Applications

- Static seabed surveys
- Object location
- Diver Monitoring
- Law Enforcement and recovery
- ROV Deployment

The SeaKing Hammerhead Survey Sonar utilises a wide transducer aperture, very fine mechanical step size and proven digital sonar technology to create high resolution imagery. Using the 675kHz frequency it is possible to obtain an overview of the site at up to 100m range and the 935kHz frequency allows a very high resolution scan at a range up to 40m.

Benefits

- Built in compass for bearing reference
- Attitude sensor for accurate positioning
- Dual seal arrangement for reliability
- Image tiler software for map creation

Features

- 675kHz or 935kHz operation
- Up to 100m range
- 700m or 4000m depth rating
- Auto-sensing communications

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

Combining a resolution twice that of other mechanical sonars, and an ultra-narrow horizontal beam angle, the dual frequency

SeaKing Hammerhead is a truly versatile survey sonar. To complete the package a fully integrated attitude sensor and compass are included to enable accurate logging of survey data.

Key Specification	
Operating frequency	935kHz & 675kHz
Range	0.4m to 100m / 1.32ft to 328.1ft
Depth rating	700m or 4000m / 2296.59ft or 13,124ft
Weight in air	6.8kg / 15lbs
Weight in water	3.8kg / 8.38lbs

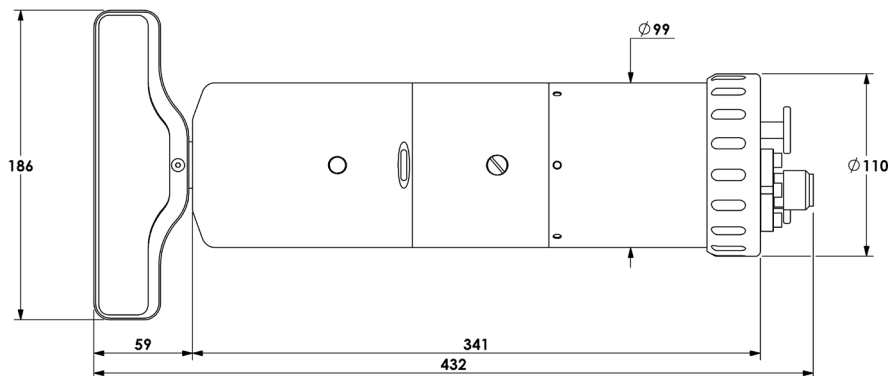
Acoustic	High frequency	Low frequency
Operating frequency	935kHz	675kHz
Beamwidth	20° vertical, 0.6° horizontal	30° vertical, 0.9° horizontal
Maximum range	40m / 131.3ft	100m / 328.1ft
Minimum range	0.4m / 1.32ft	
Range resolution	7.5mm / 0.30in	

Sonar display	
Range selections	2m to 100m / 6.57ft to 328.1ft
Scan resolutions	0.225°, 0.45°, 0.9°, 1.8°
Continuous 360°	Yes
Offset sector scan	Yes
Attitude information	Angle of sonar body to vertical (2 axes)

Electrical and Communication	
Operating voltage	20 to 72V DC
Power requirement	55W
Communication Protocol & Rate	ARCNET: 156kbit-s-1 (maximum) RS485: 115.2kBd (maximum) RS232: 115.2kBd (maximum)
Connector options	Burton (standard) Others available on request

Physical specifications	
Weight in air	6.8kg / 15lbs
Weight in water	3.8kg / 8.38lbs
Materials	Aluminium alloy (hard anodised)
Depth rating	700m or 4000m / 2296.59ft or 13,124ft
Operating temperature	-10°C to 35°C / 14°F to 95°F

Specification subject to change in line with Tritech's policy of continual product development



Not to scale. Measurements in mm.

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