



MODEL 5500

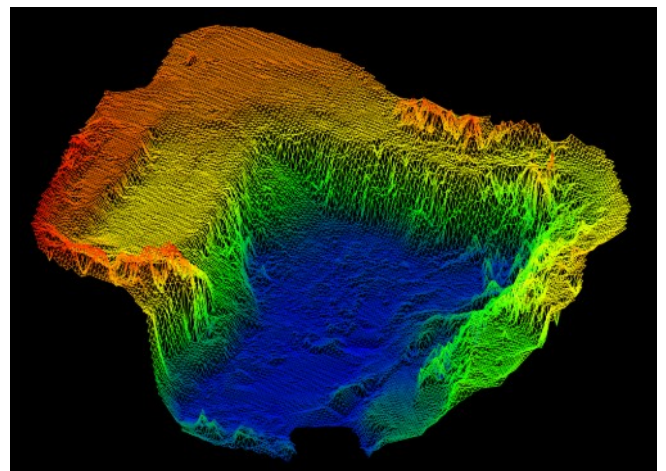
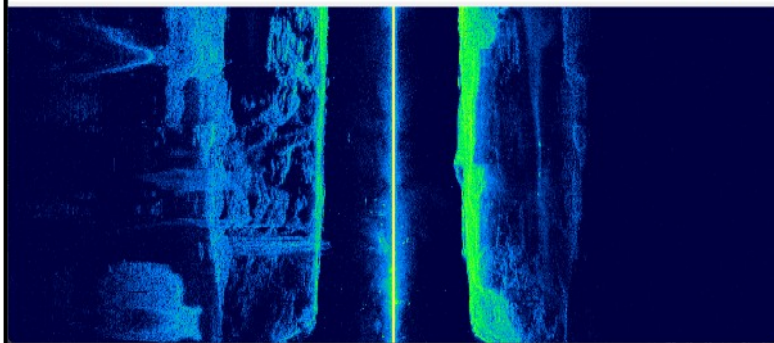
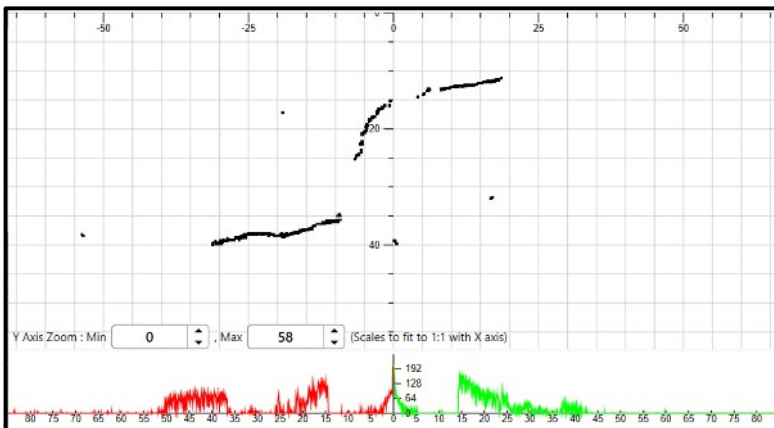
3D Interferometric Side Scan Sonar



Available in various frequencies the Marine Electronics model 5500 uses Interferometric acoustic technology and latest digital signal processing techniques to provide a compact dual side scan surveying tool that operates over a field of view of 120° with no blind spots under the survey track.

The sonar can be supplied as a complete system ready to be integrated into a variety of vehicles. Alternatively the Model 5500 Transducer Arrays can be supplied individually or as a pair for use on an "over-the-side" pole.

The standard system comprises of the Transducer Arrays, Sonar Interface Unit and operating software running under the "Windows" platform. The software performs data acquisition and visualisation of bathymetry and side scan data. Processed data can be exported to third party hydrographic surveying software.



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Specifications are subject to change without notice



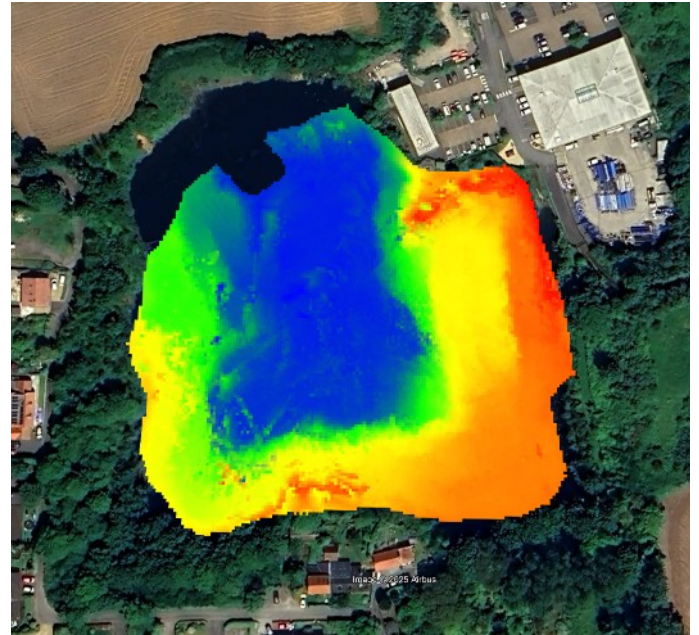
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3D Interferometric Side Scan Sonar



Key Features

- Simultaneously acquires side scan and swath bathymetry data for each ping.
- Phased measurements used to calculate range and angle of the reflected acoustic beam to less than 0.1°
- Covers an angle of 120° using a dual transducer arrangement with no blind spot.
- Up to 2000 thousand range-angle pairs are collected for each ping giving a much higher data density than a conventional multi-beam sonar.
- Exceeds IHO bathymetric survey standards
- Available in 250KHz and 500KHz versions.



Model	250KHz	500KHz
Horizontal Beamwidth	1.3°	0.65°
Vertical Beamwidth	60°	60°
Max. Water Depth Below Transducer	100m	50m
Maximum Coverage (Dual Array)	400m	200m
Range Resolution	24mm	12mm
Transmit Pulse Length	64us to 500us	16us to 250us
Maximum Swath Update Rate	30 per second (Range Dependent)	
Sonar Digitisation	16 bits per channel	
Transducer Array Dimensions	330 x 70 x 24mm	216 x 60 x 24mm
Transducer Array Weight (In Air)	750g (Per Array)	400g (Per Array)
Electronics Enclosure Dimensions	275 x 170 x 95mm	
Data Output Interface	XYZ Format over Ethernet	



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