

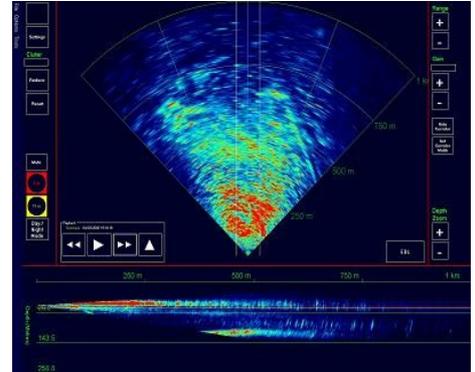
See-View Model 3264

3D Imaging Sonar

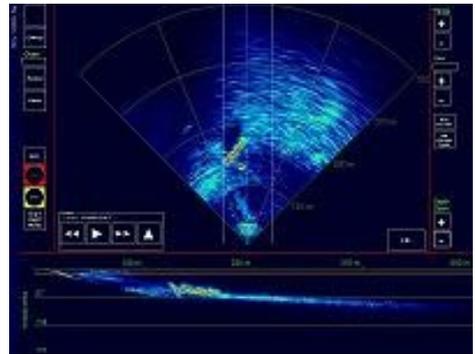


FEATURES INCLUDE

- Forward looking, Real-Time, 3D scanning.
- 500m range
- Determine target depth in the water column.
- Wide-Band operating frequency
- MRU for data stability
- Dynamically Steered Transmit Beams
- Hull or Overside Mount
- "Windows" based 3D display software
- Moveable "camera" viewpoint.



Surface Ice and Seabed



Ship Wreck Guernsey

The See-View Imaging Sonar is a forward looking active underwater acoustic device that provides a 3D real-time display of an area ahead of a surface or underwater vehicle to aid in the avoidance and detection of submerged objects. The sonar may also be used as a fixed installation to protect harbours or moored vessels from divers and unmanned vehicles. The See-View when installed will scan both horizontally and vertically to produce a three dimensional representation of the area in front of the sonar up to a maximum range of 500m. The "T" configuration transducer array can be either over the side or hull mounted and connected by cable to the electronics processing unit which is controlled from the operating PC via an Ethernet connection.

The system software can operate the sonar in a 2D mode for a faster update rate and then switch to 3D mode for a more graphical representation of the area scanned. A motion reference unit can be integrated into the system to stabilise data from the sonar in response to pitch/roll movement.

The entire system is operated via a Laptop or desktop PC running under the Windows operating system.



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See-View Model 3264

3D Imaging Sonar



The See-View 3D Sonar is based on Marine Electronics digital range of electronically scanning multibeam sonar's utilising an improved wide band technique.

The sonar scans a horizontal sector of 90° to a 1.5° resolution and a vertical sector of 20° to a 1° resolution simultaneously for every "ping" of the transmitter. The transmit beams can be dynamically steered for optimum performance.

The See-View provides a true 3D forward looking image updating at a rate dictated by just the travel time for one acoustic pulse.

The system consists of separate transmitter and receiver arrays in a "T" configuration and cabled to an Electronics Processing Unit.

An optional motion reference unit to stabilise movement can be connected to the PC.

The sonar data is transferred via an Ethernet link from the EPU to the host PC where the system is controlled.

The system software integrates the data from the sonar and MRU to display a 3D representation of the targets detected.

Optional GPS input and chart overlays can be added for harbour surveillance

Custom housings are available to meet with customer requirements.

Transducer Array Specifications

Operating Frequency 150kHz, Wide-Band

Dimensions
Transmitter: 540 x 190 x 115mm
Receiver: 380 x 190 x 115mm

Material Aluminium & Polyurethane

Number of Beams
Transmitter 32
Receiver 64

Transmitter Beamwidth Vertical: 1°
Horizontal: 90°

Receiver Beamwidth Vertical: 20°
Horizontal: 1.5°

Operating Range: Min 20m
Max: 500m

Maximum Depth 500m

Electronic Processing Unit

Dimensions: 19 Inch rack 8u high

Weight: 25Kg

Temperature
Storage -10 to +60 degrees C
Operating 0 to +40 degrees C

Environmental: IP40

Connections: Fused and filtered IEC mains inlet.
RJ45/MT-RJ Ethernet
Transmitter Array
Receiver Array

Power Supply: 240V AC at 2.5kW peak



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