



PIN-POINT

3D INTRUDER DETECTION SONAR



FEATURES INCLUDE

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

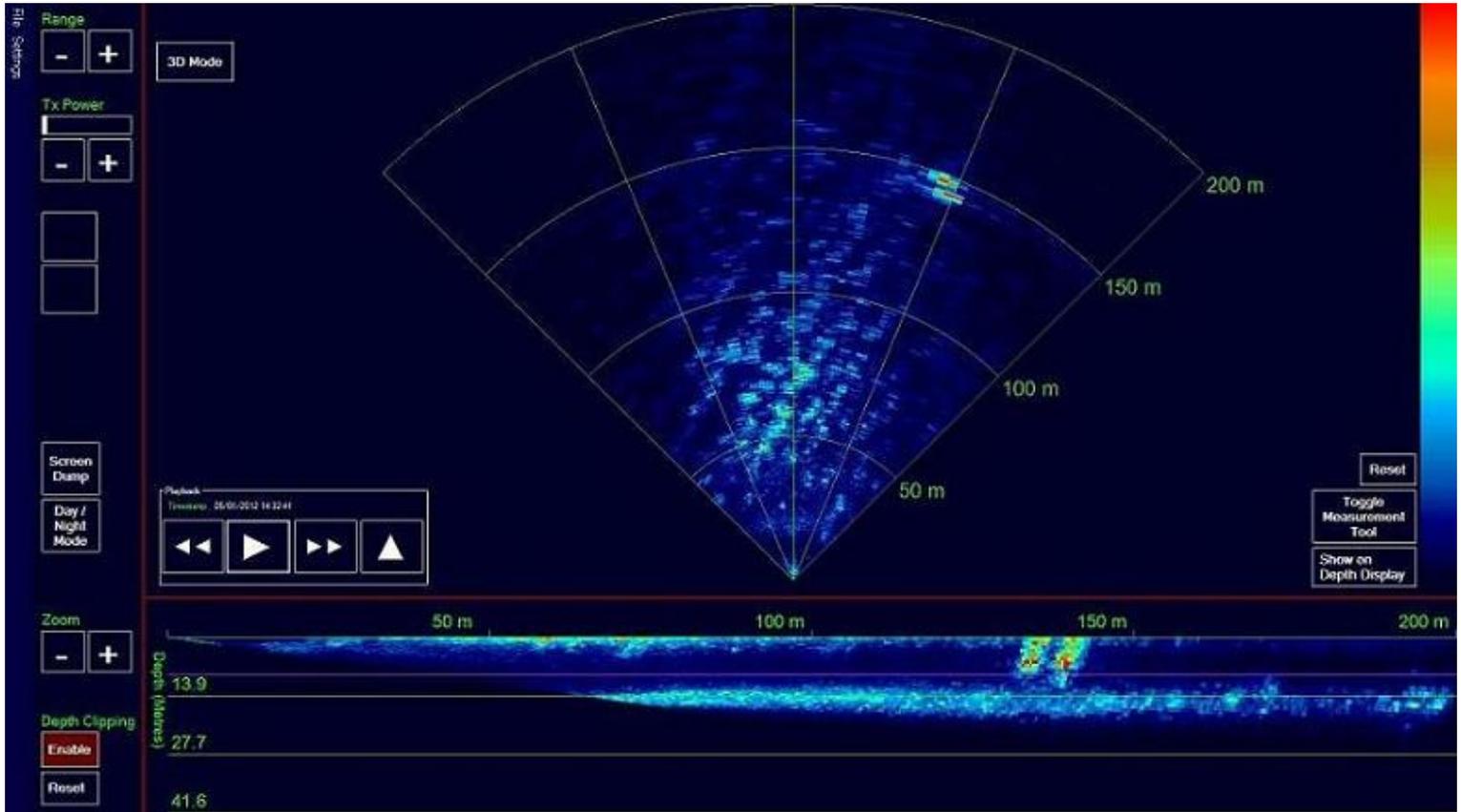
The Pin-Point Intruder Detection Sonar is a forward looking active underwater acoustic device that provides a 3D real-time display of an area to aid in the avoidance and detection of submerged objects such as divers and unmanned vehicles. The Pin-Point when installed will scan both horizontally and vertically 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 fixed or vessel mounted and connected by cable to the electronics processing unit which is controlled from the operating PC via an Ethernet connection.

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

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Two Divers 7m deep at 150m range

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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