

3D Profiling Sonar

Model 2001-50RH

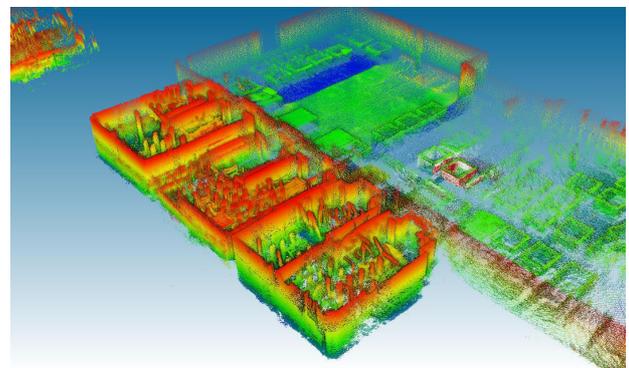


The 3D Profiling Sonar Model 2001-50RH is designed to operate long term in radioactive ponds and settlement tanks and gather high resolution bathymetry data. Manufactured in PEEK and only 50mm in diameter the unit can be installed through the smallest of access points. Multiple units can be linked together and controlled via Ethernet to enable large areas to be fully mapped. The windows software allows images to be merged to produce a single point cloud picture.



Ethernet Control Unit

- **1MHz Operating Frequency**
- **Radiation Hardened**
- **High resolution 3D data captured directly**
- **20m Range**
- **Ethernet controlled**
- **On screen cursor measurement tools**
- **Windows operating with multiple views**
- **Optional Data Logging**



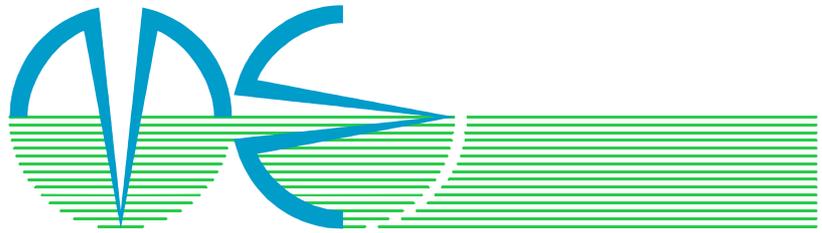
Combined Sonar Data Point Cloud



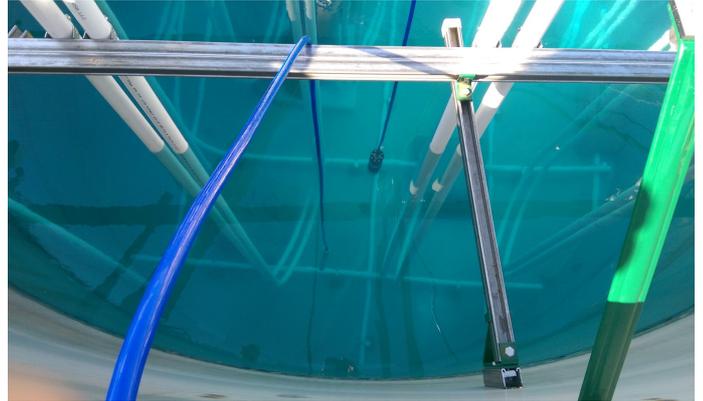
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Test Tank



Sonar Installed in Test Tank

Specification

Acoustic

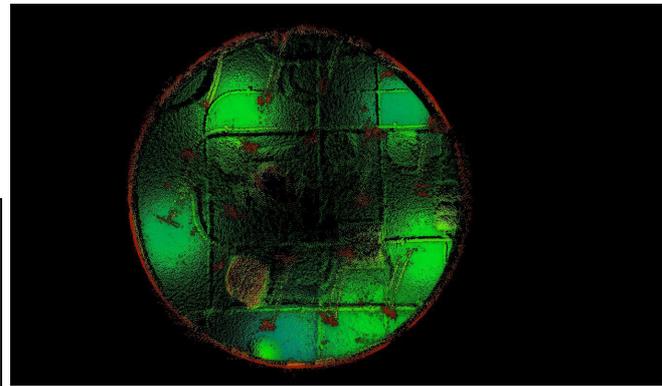
Operating Frequency	1MHz
Transducer Beamwidth	1.8° (+/- 3dB points conical)
Range Resolution	<1mm
Sample Rate	1MHz
Range Settings	0.5m to 20m in 0.1m steps
Transmit Pulse Length	10usec to 250usec
Swath Resolution	0.9° to 9° in 0.9° steps
Rotational Resolution	0.9° to 9° in 0.9° steps

Interface

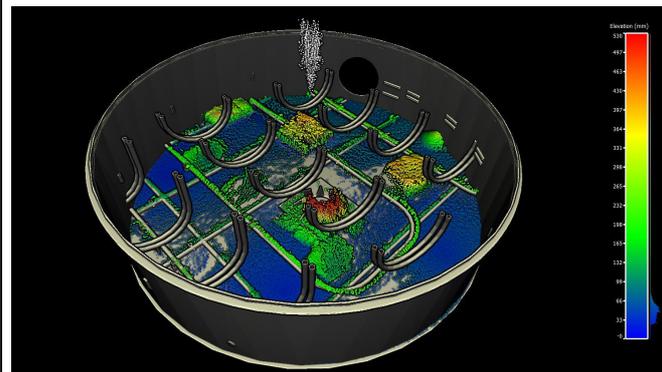
Power Consumption	15W Maximum
Supply Voltage	12V DC
Communications	Ethernet
Connectors	8 way and 12 way Subconn

Physical

Size	50mm diameter by 500mm long
Material	PEEK and Stainless Steel 316
Depth Rating	50m
Weight in Air	1.2kg
Weight in Water	0.2kg
Temperature Range	0 to +35° (operating) -10 to +60° (storage)



Sonar Image



Processed Image



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