

# 3D Profiling Sonar

Model 2001-90

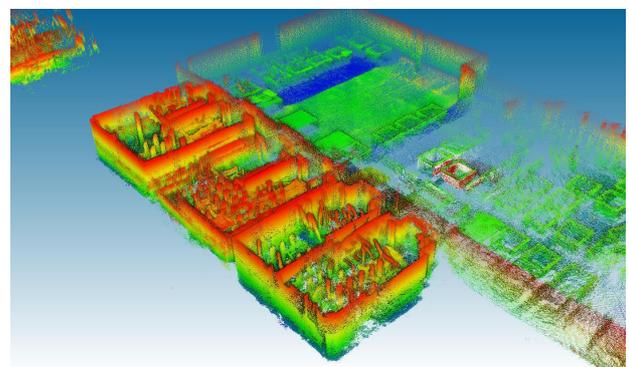


The 3D Profiling Sonar Model 2001-90 is designed to operate long term in enclosed spaces including radioactive ponds and settlement tanks and gather high resolution bathymetry data. Manufactured in PEEK / Stainless Steel and only 90mm in diameter the unit can be installed through the smallest of access 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



Ethernet Control Unit

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



Combined Sonar Data Point Cloud



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## Model 2001-90



### Specification

#### Acoustic

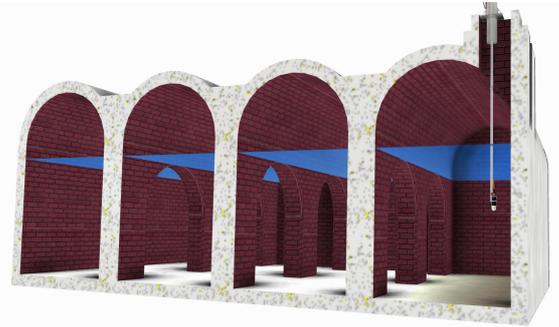
<i>Operating Frequency</i>	1MHz
<i>Transducer Beamwidth</i>	1.8° (+/- 3dB points conical )
<i>Range Resolution</i>	<1mm
<i>Sample Rate</i>	1MHz
<i>Range Settings</i>	0.5m to 20m in 0.1m steps
<i>Transmit Pulse Length</i>	10usec to 250usec
<i>Swath Resolution</i>	0.9° to 9° in 0.9° steps
<i>Rotational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

#### Interface

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

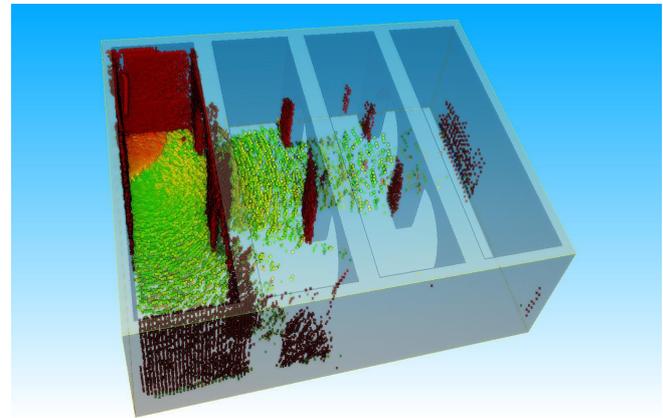
#### Physical

<i>Size</i>	90mm diameter by 400mm long
<i>Material</i>	PEEK and Stainless Steel 316
<i>Depth Rating</i>	50m
<i>Weight in Air</i>	3.5kg
<i>Weight in Water</i>	1.5kg
<i>Temperature Range</i>	0 to +35° (operating) -10 to +60° (storage)

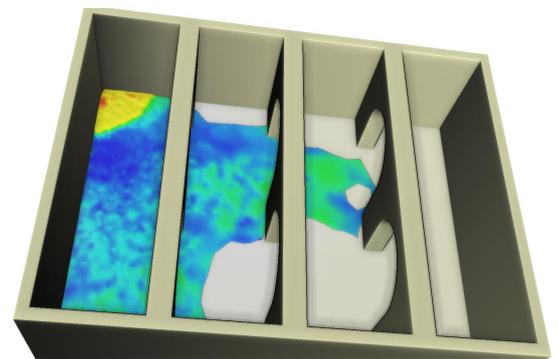


**FORTIS**

Sonar Installed in Water Chamber



Sonar Image



Processed Image



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