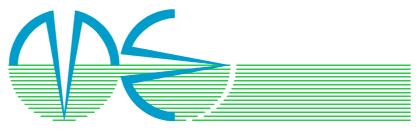
Scour Monitoring Sonar

Model 2001-SMS

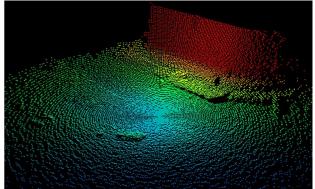




The 3D Profiling Sonar Model 2001-SMS is designed to operate long term on fixed structures to gather high resolution bathymetry data. Manufactured in PEEK / Hard Anodised Aluminium or Stainless Steel or Titanium and only 90mm in diameter the unit can be installed on a Bridge Pier, Dam Wall or Offshore Windfarm. 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. Operation can be stand alone with built in data logging capacity in the sonar unit using a micro SD card with remote access via Ethernet / Internet / 4G mobile network.

- Bridge Pier Scour Monitoring
- Offshore Wind Turbine Scour monitoring
- Water Intake and Dam Inspection
- Designed for long-term deployment
- High resolution 3D data captured directly
- Range Frequency Dependent
- Ethernet / 4G
- On screen cursor measurement tools
- Windows operating system with multiple views
- Complete Off Grid Power Options
- Multiple Unit Installations
- Optional Sensors







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Scour Monitoring Sonar

Model 2001-SMS



Specification

Acoustic

Operating Frequency 1MHz (see options)

Transducer Beamwidth 1.8° (+/- 3dB points conical)

Range Resolution <1mm Sample Rate 1us to 100us

Range Settings 0.5m to 20m in 0.1m steps

Transmit Pulse Length 10usec to 250usec

0.45° to 4.5° in 0.45° steps Swath Resolution 0.9° to 9° in 0.9° steps Rotational Resolution

Interface

Power Consumption 10W Scanning 1mW Standby

Supply Voltage 12V DC Communications Ethernet

Connectors 8 way / 12 way Micro Subconn

Physical

90mm diameter by 400mm long Size Material

PEEK / Anodised Aluminium /

Stainless Steel / Titanium

Depth Rating 100m

Weight in Air 3.5kg Aluminium

Weight in Water 1.5kg

0 to +35° (operating) Temperature Range

-10 to +60° (storage)

Options

Operating Frequencies 2MHz, 1MHz, 700KHz, 500KHz or 250KHz

Pitch & Roll sensor

Pressure Sensor

Temperature Sensor

Conductivity Sensor

Cable Operated or WiFi / 4G

Offgrid Power Systems



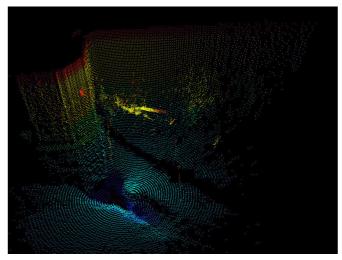
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Dam Inspection



Sonar Head, 4G / Battery Control Box, Solar Panel



90mm Sonar Unit