



KONGSBERG

# MS 1000 Scanning Sonar

Kongsberg Mesotech Ltd. is the recognized world leader in mechanically scanned sonar systems. The MS 1000 Scanning Sonar Processor confirms our reputation as the supplier of the highest quality, highest resolution products in the market.

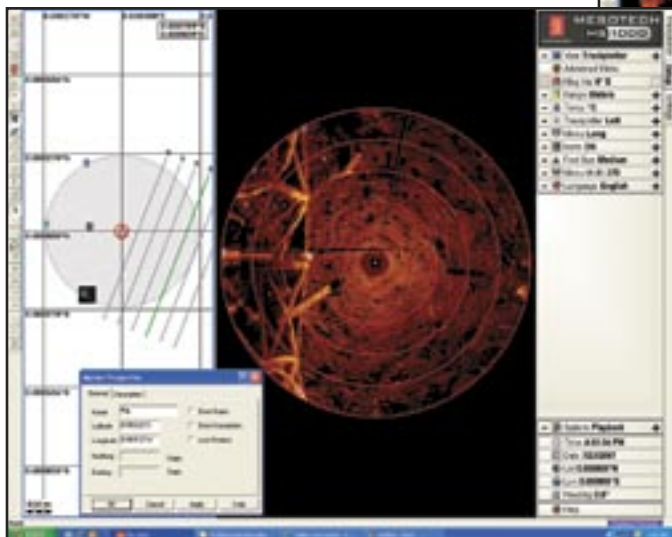
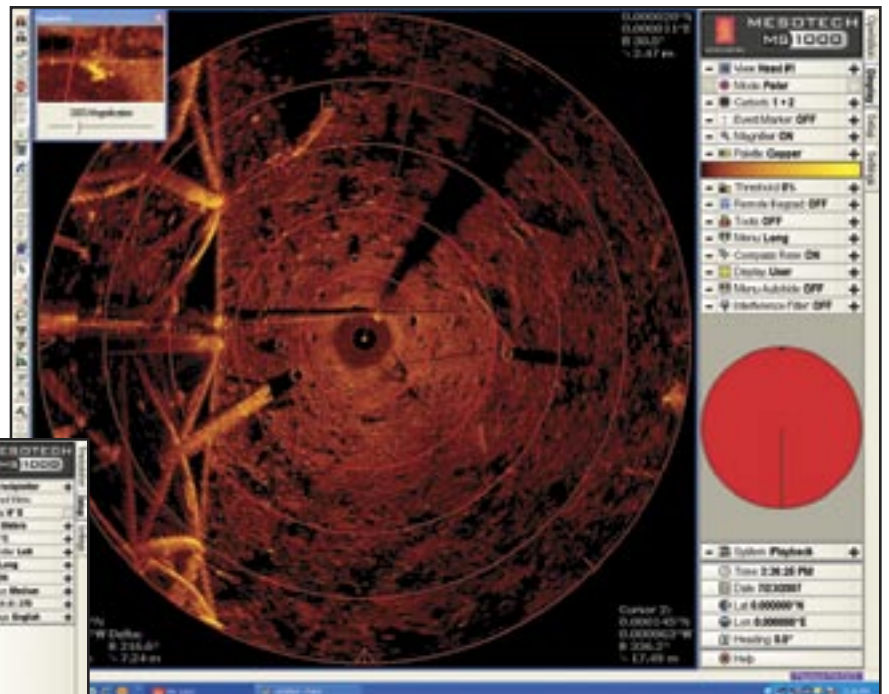
Our MS 1000 software program converts any standard PC into a full-function sonar processor *without the need for additional boards or hardware*, and is designed under ISO standards to ensure compliance to reliability, statutory and regulatory requirements.

MS 1000 is a Windows-based application and can be configured to control the complete digital line of Kongsberg Mesotech's scanning sonar, altimeter, and bathy sensor products via industry-standard telemetry protocols.



## MS 1000 key features include:

- Simultaneous multiple scanning sonar head and altimeter operation, and sensor configurations
- Time-tagged recording of all sonar and sensor inputs to the PC's hard-drive or external recording device
- Advanced target measurement and annotation tools
- Track Plotter module allowing the user to pre-plot search and survey lines, and to geo-reference sonar targets
- Networking capability
- Target tracking (optional)



- Ping synchronization for multiple-head operation; fused data display for dual head profiling
- GeoTiff image format
- 3D profiling with pan device
- Plug-and-play USB keypad

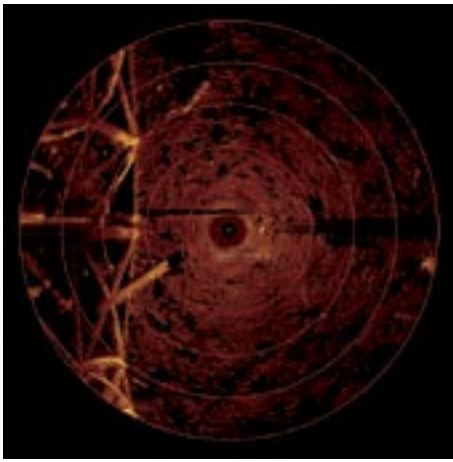


Image courtesy Fugro Chance, Inc.

Oil rig, pipeline, and diver

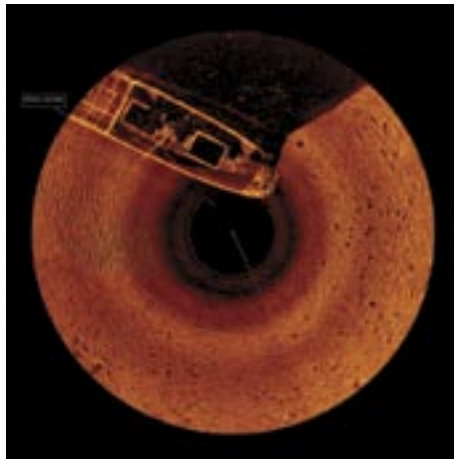
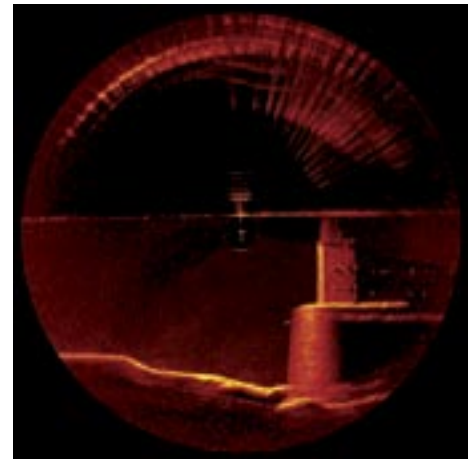


Image courtesy Tuukriööde oit Commercial Diving, Estonia

WWII shipwreck at 40m



Courtesy Fenstermaker & Associates Inc.

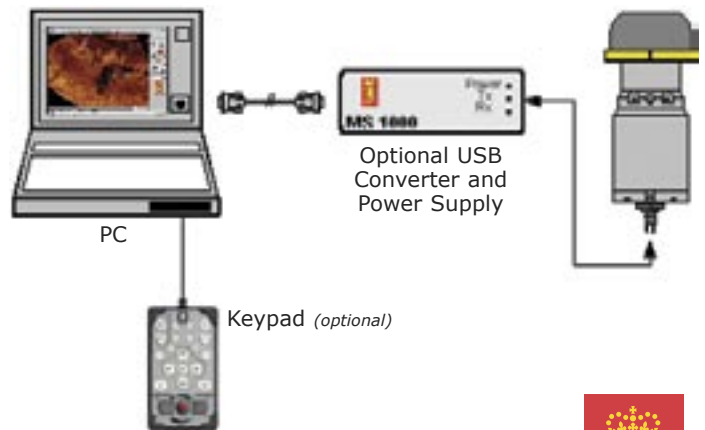
Bridge foundation

## Technical Specifications

Minimum System Requirements	1 GHz, Pentium 3, 512 MB of RAM (single head operation), Windows 2000 Pro, Windows XP Pro, or Windows Vista Business Edition
Video Format	Platform dependent; SXGA (1280x1024 or higher recommended)
Image	Dedicated image area for each sonar head; size/position configurable
Palette	Menu selectable
Sonar Control	Pull-down menus for configuring and control of sonar system
Status Readout	Alphanumeric display of cursor positions, range, gain, mode settings
Sensor Readout	Alphanumeric display of position data, sensor outputs
Gain	Menu adjustable; infinite settings
Range	Menu adjustable; customer-defined; 5-500 meters
Sector Width	Adjustable from 7.2° to 360° in 7.2° steps
Sector Center	Adjustable from 0-360° in 0.9° steps
Cursors	Selectable by pointing device; 2 general purpose
Zoom	x2, x4
Magnifier	x1 to x10
Menu Controls	Menu driven control system for display mode, scan speed, scan reverse, threshold, speed of sound, serial I/O, profile or image selection, baud rate selection

Data Recording and Playback	Imaging, profile and time-tagged sensor data storage to hard drive or other PC device; bitmap snapshots to disk; GeoTiff format support
Measurement Tools	Detailed annotation, cursors, tape measure, target area, target height
Printer	Output to any printer recognized by operating system
Telemetry	RS 232, RS 485, RS 422
Telemetry Rates	Down link: 9600 Uplink selectable: 9600, 19K, 38K, 57K, 115K bit/s, 230K, 460K with USB interface box
Power Requirement	Platform dependent
Temperature Range	Platform dependent
Navigation Input	NMEA 0183 Format (232 Levels)
Sensor Interface	RS232

## Typical System Configuration



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