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
Technical Specifications

Minimum System: 1 GHz, Pentium 3, 512 MB of RAM
Requirements: (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: Imaging, profile and time-tagged sensor and Playback 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

Temperature Range: Platform dependent

Power Requirement: Platform dependent

Temperature Range: Platform dependent

Navigation Input: NMEA 0183 Format (232 Levels)

Sensor Interface: RS232

Typical System Configuration

Optional USB Converter and Power Supply

Keypad (optional)