

INTRODUCING THE NEW STANDARD IN
AFFORDABLE TOPOGRAPHIC NEUROMAPPING:

MINDSET MS - 1000

16 Channel Topographic Neuromapping Instrument

Mindset is a 16 - Channel Electroencephalographic Neuromapping System designed for use with a personal computer. Mindset combines topographic neuromapping and electroencephalographic analysis software with a 16 channel, 1024 sample-per-second, 16 bit digital EEG acquisition instrument, to provide a complete, yet extensible, EEG Neuromapping system.

An Open Standard

Mindset is based on a completely open software architecture. Through ActiveX, third-party developers and end users have unlimited access to extend or customize Mindset. In addition, the Mindset data record format is an open and published standard.

Realtime Topographic Neuromap Rendering on PC

Mindset provides a comprehensive and intuitive suite of tools for understanding EEG in the temporal, spectral, and spatial domains. Features such as realtime topographic visualization, neurometric profile comparative analysis, phase coherence analysis, compressed spectral array visualization, inter-electrode interpolation, user defined metric report generation, user defined digital filtering, user defined band separation, and visual waveform data editing seamlessly integrate to provide a clear prospective of patterns in the EEG data.

In the Laboratory or in the Field

Mindset interfaces to the computer via SCSI, a standard that works as well with a desktop computer as it does with a notebook. An all aluminum enclosure, sized to match the footprint of a notebook PC, ensures durability and isolates Mindset from environmental interference.

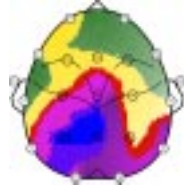


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Mindset was created in 1993 by Aquathought for extremely demanding field research. After years of continuous development and refinement, Mindset emerges into the market as a robust and comprehensive tool for EEG study.

FEATURES

■ **Composite and Band-separated Realtime Topographic Neuromaps** color models, bands of interest, resolution, Windows movie creation, epochs and more under user control.



■ **Strip Chart Waveform Display** channels of interest, sweep rate, amplitude scale and screen configuration are configurable on-the-fly.



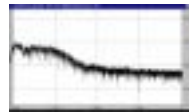
■ **Quickwave Data Acquisition** designed for quick electrode signal verification and data acquisition.



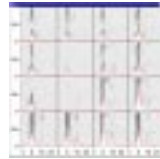
■ **Wavelab Offline Analysis** allows for wave data editing, de-artifacting, whole session analysis, standardized metric reporting, neurometric profile comparative analysis and more.



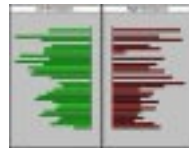
■ **Fast Fourier Transform** user selectable area of interest, configurable window, overlap, scale, inverse FFT and automatic peak detection.



■ **Compressed Spectral Array** realtime visualization of spectral data with on-the-fly configuration of channels of interest, time scale, amplitude scale and screen layout.



■ **Spectral Histogram** fully user configurable realtime display with on-the-fly control of channels of interest, epoch length, amplitude scale and screen layout.



■ **User Dialog-box Controls** make operation and setup easy by providing on-the-fly point and click control over all aspects of the data recording, visualization, and storage.



■ **Cross-Coherence Analysis** compare coherence of any two channels in realtime.

■ **Electrode Signal Verification** verify proper electrode preparation and recording at a glance.

■ **MIDI Device Control** provides realtime sonification of user specified aspects of EEG.

SPECIFICATIONS

- **Channels**
16 differential input channels (32 input jacks)
- **Resolution**
16 bit analog to digital converter
1024 samples-per-second-per-channel (programmable from 64)
- **Filtration**
2 fourth-order Sallen-Key active filters, 48db roll-off per octave
1.8hz - 36 hz frequency pass band
- **Common Mode Rejection**
120db maximum, 87db typical in pass band
- **Input Range**
0 - 100 microvolts*
(* 0-400 microvolt range using optional gain variance module)
- **Electrodes**
standard electrode inputs (compatible with Electro-Cap and e-Net)
- **Montage Reference Configuration**
user selectable through Expansion Connector
Linked-Ear Referential module supplied
- **Interface to Computer**
SCSI (Standard Centronics type connectors)
- **Opto-Isolation**
2500 volts RMS
- **Total Harmonic Distortion**
-87db
.01% servo linearity
- **Calibration**
factory calibrated*, automatic and user calibration via software
(*optional calibration certificate available)
- **Power**
110/220vlt, 50/60hz input
15 watts consumption
- **Operational Temperature**
32°f - 90°f, do not operate in direct sunlight
- **Dimensions and Weight**
13" deep, 11.31" wide, 3.88" high
main unit - 7 pounds, external power supply - 2 pounds
- **Warranty**
Mindset is warranted to be free from defects which affect proper operation, for a period of one year.
- **System Requirements**
Pentium Class or 486 PC running Windows 95 or NT.
SCSI interface, 8 megs of RAM, 20 megs of available hard drive space. (For optimum realtime neuromapping, 133Mhz Pentium or better- is recommended).
- **Optional Accessories**
Montage Breakout Module, Tandem Unit Module, Gain Variance Module, Calibration Certificate, Notebook Grounding Harness.



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Mindset is not intended for use in clinical medical applications and is not FDA approved. Aquathought Labs makes no claims as to potential medical or therapeutic benefits from its use.