

BRAIN QUICK

BRAIN QUICK SLEEP LINE

High Resolution
VideoPolySomnoGraphy.
Always at the Top.



POLYSOMNOGRAPHY. THE EXPERTISE THAT MATTERS

Micromed Sleep systems are based on an over-20 years' experience working close to the best Sleep center in Europe. This allows the system to be easily customized to the always-different needs of recording, monitoring and reviewing of the EEG, Audio and Video and Events that a Sleep center has.

INTEGRATION. BEYOND ANY EXPECTATION

Micromed offers distributed solutions ranging from a single stand-alone unit to tenth of units interconnected over the network in real-time. Database can be centralized and integrated with Hospital Information Systems in compliance with all data management policies. HL7 Messages interface is also available and standardized to the highest level. Systems allows Secure Data Sharing and virtualization of resources. All of this, together with the extraordinary expertise of the Micromed team allows easy customization of the solutions for VideoEEG and Report collection, distribution and archiving.

RELIABILITY. THE CARE OF ANY SINGLE DETAIL

Micromed systems are based on the most reliable hardware sourced from the IT professional world market leaders only. All systems are designed for maximum operability and no downtime.

QUALITY. FAME IS NOT ENOUGH

Ultra-compact amplifiers with 29/38/48 channels or 34 channels Mobile amplifiers with Ambulatory function: best performances combined with best noise immunity in a very small case to reach maximum ergonomics. Synchronized Video with distributed view and control and resolution up to FullHD 1920 x 1080: a solution that let you benefit of the most advanced technologies in a very user friendly way. Sleep Analysis and reporting software extremely powerful and flexible, compliant with AASM 2012 standard, are essential tools with one important thing on top: Micromed qualified support!

ERGONOMICS. BASED ON EXPERTISE

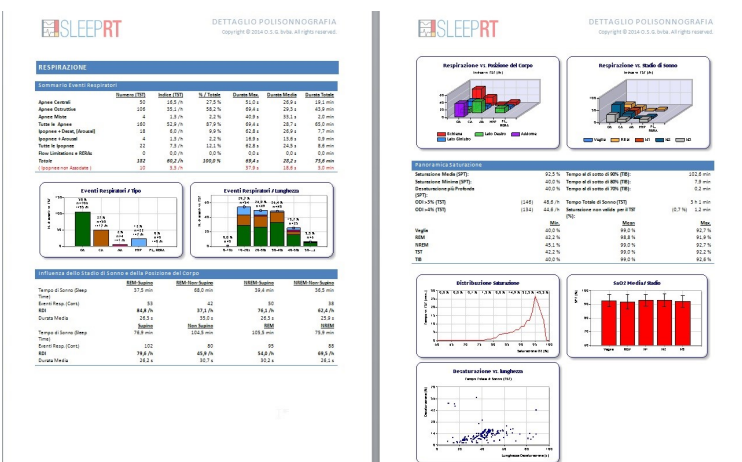
Micromed keeps on working together with the main world reference center in order to share any idea on the product and get all the feedback on it. This has led to a long history of development, improvements and optimization of the user interface of both Hardware and Software that simplifies the use of the system even with the most advanced tasks. Portable and fully battery powered device shows an excellence that has always been proved on any Micromed product.

EXPANDIBILITY. GROWTH WITHOUT ANY PROBLEM

The intrinsic modularity of the system allows several expansion like:

- SD LTM EXPR amplifiers for LTM application up to 256 channels
- Application for ICU and/or EEG/IAEEG monitoring
- Ambulatory EEG recorders from 21, 34, 40 to 72 channels
- Advanced Software tools, both integrated and external, for Data Analysis, Spike and Seizure Detection, working On-Line and Off-Line

BRAIN QUICK



INTEGRATION

Network Integration with:

- Single Software that manages all Applications
- Centralized SQL Database – Archive
- HL7 Interface with Hospital Information System
- Fully Compliant with Data Protection and Data Security policies
- Automated DVD or Blu-ray Writing
- Remote Review/Control via Network of any system
- Predisposition for advanced services, resources and application virtualization

STATE-OF-THE-ART STATIONARY SOLUTION: SD PLUS

Ultra-compact amplifier SD PLUS Series: 19 x 13 x 2.5 cm per 390 g con: (data refers to RESEARCH model)

- 24 bit AD Conversion, DC to 4.4 kHz Bandwidth, LSB 0.38nV. (0.095nV on dedicated channels)
- Dynamic Range from $\pm 3.2\text{mV}$ to $\pm 1638.4\text{mV}$ ($\pm 0.8\text{ mV}$ a $\pm 51.2\text{ mV}$ on dedicated channels)
- Sampling Rate up to 16384 Hz/Channel on all channels (128 kHz/channel on dedicated channels)
- Up to 40 Common Reference Channels, up to 16 possible Bipolar Channels
- 2 Dedicated Bipolar Inputs for Evoked Potentials
- 2 Direct Inputs for Respiratory Inductive Belt
- 3 channels for SpO₂, Heart Rate, Pletismogram
- Impedance related LED on any input
- LCD Display with Signal drawing, Impedance values
- Electrode Polarization detection
- Noise < 0.15 V r.m.s. CMRR > 125 dB.

AMBULATORY-WIRELESS-WIRED SOLUTION: MORPHEUS

34 Channels recording systemMORPHEUS with:

- Up to 24 Common Reference Channels, up to 16 possible Bipolar Channels
- 2 Dedicated DC High Level Channels
- 2 Dedicated Pressure Channel (Absolute and Differential)
- 2 Direct Inputs for Respiratory Inductive Belt
- 3 channels for SpO₂, Heart Rate, Pletismogram
- 1 Integrated Body Position channel
- LCD Display with Signal drawing, Impedance Check functions and display
- Electrode Polarization detection
- Noise < 0.15 V r.m.s. CMRR > 120 dB.
- Small size and low weight: Only 11 x 8 x 3 cm, weight < 250gr.
- Sampling Rate 8 KHz/Channel
- Advanced Downsampling/Averaging functions for Noise reduction
- Input Impedance 1000 MOhm
- USB and/or Wireless interface to the PC
- Ambulatory function up to 24/48/72 hours

PROFESSIONAL ANALYSIS AND REPORTING

Advanced Analysis and Reporting software for PSG and Respiratory disease SleepRT*

- Adult and Pediatric Sleep Staging
- Completely customizable Analysis module
- Fully compliant with AASM 2012 Standard
- Continuous and qualified Service and Support

VIDEO

Synchronized Digital VideoEEG:

- Very High Resolution (HD, FullHD)
- 25 or 30 Frame/Second Digital Zoom up to 16x
- Software or Joystick based PTZ Camera Control
- High Level Multicamera system management

A VIEW TO THE FUTURE

Possibility to expand the system with:

- Mapping, Source Localization and Sleep Analysis
- Advanced Software tools, both integrated and external (BESA, PERSYST), for Data Analysis, Spike and Seizure Detection, working On-Line and Off-