

# BRAIN QUICK

## BRAIN QUICK - EEG LINE

High Resolution VideoEEG.  
Always at the Top



### 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: 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.

### ERGONOMICS. BASED ON EXPERTISE

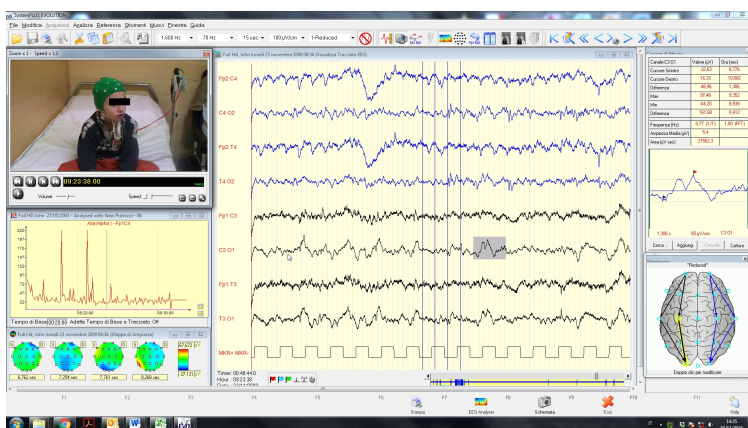
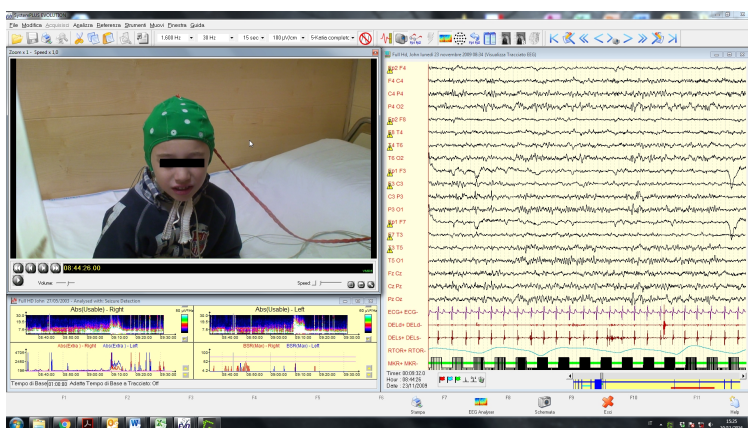
Micromed keeps on working together with the main world reference center in order to share any idea on the product and get all the feedback on it. This has led to a long history of development, improvements and optimization of the user interface of both Hardware and Software that simplifies the use of 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
- Combination with EMG, Multimodal EP Systems, Cognitive EP, Sophisticated Averaging techniques, BCI
- PSG PolySomnoGraphy advanced functions

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## 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

## ELECTRONICS BEYOND THE LIMITS

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 SpO<sub>2</sub>, 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.

## HIGH LEVEL REPORT GENERATION

Programmable Report Models:

- Microsoft Word®, PDF, HTML compatible
- High Resolution Laser or InkJet print
- Speech Recognition with Dedicated Neurology vocabulary

## VIDEO

Synchronised 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 Localisation and Sleep Analysis
- Advanced Software tools, both integrated and external (BESA, PERSYST), for Data Analysis, Spike and Seizure Detection, working On-Line and Off-Line
- EMG and/or EP of the MYOQUICK Series
- ERP with Back-Averaging
- EEG Analyser for On-Line and Off-Line Monitoring

Combination with the following Ambulatory recorders:

- BRAIN SPY PLUS 21 channels Ambulatory Recorder
- MORPHEUS 34 Channels Epilepsy and PSG ambulatory recorder
- SD LTM32 EXPRESS 40 channels ambulatory recorder
- SD LTM64 EXPRESS 72 channels ambulatory recorder

## NO LIMITS MOBILITY

Micromed EEG stationary systems are available on different type and size carts, with 2 up to 4 shelves or in Notebook based version, which can run fully battery powered no need of external plugs. All Notebook based systems are available with dedicated trolley for easy transport.