

# BRAIN QUICK

## MORPHEUS HOME LTM

Ambulatory EEG and PSG.  
MORPHEUS and BRAIN SPY PLUS



### EXCELLENCE NEVER HAPPEN BY CHANCE

Micromed has developed the first ambulatory EEG in 1982, becoming immediately a world leader in this domain. Since then we have been developing and manufacturing innovative and reliable ambulatory devices for this special application: neurophysiology. Modern technologies has then be used to improve the performances and the usability of the systems, giving Micromed the leadership in this market.

### FLEXIBILITY AND PERFORMANCES

Having 34 channels in 200 gr. Is a big opportunity itself. But Morpheus, with its advanced management of wireless communication, with roaming on different areas and automatic switching between wired / wireless / "no connection" modes allows truly continuous recording without losing any single sample of EEG data. Ideal for Home application, it performs extremely well for inpatient as well, giving continuous and perfect signals for 48 hours or more.

### CONFORT AND MOBILITY WITHOUT COMPROMISE

Minimum size and weight makes Morpheus ideal for both adult and pediatric patients. The wireless function makes setup and verification easier and the system can be started by itself without the need of an external PC.

### COMPLETE ACCESSORIES SET

A system with the performance of the MORPHEUS is offered with the best accessories available on the market. Dedicated sensors together with professional electrodes have been selected to provide maximum reliability of the recording and the best results in the field.

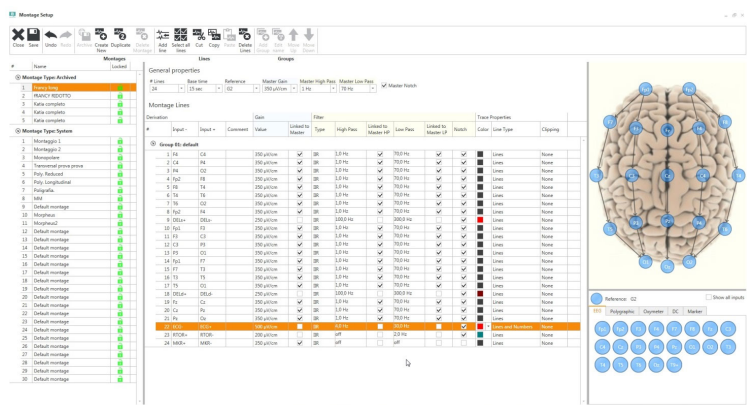
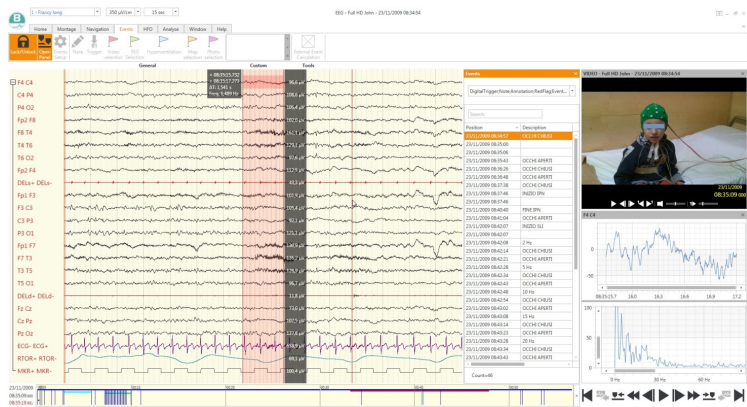
### HOME LTM - VIDEOEEG AT HOME MADE SIMPLE

The excellence of Micromed product offer is confirmed by the availability of a High Quality Video Option add-on: FullHD resolution (1920 x 1080) with Infrared recording capability can be operational (starting the synchronized recording) by just opening the camera lid. It is for sure the easier system in the market, and when this has to be operated by the patient, it's a very important added value!

### HIGH LEVEL POLYSOMNOGRAPHY

The use of High Quality accessories, professional analysis and reporting software and the best ambulatory recorders in the field makes PSG recording really easier and accessible to users with any degree of background.

# BRAIN QUICK



**Models:** MORPHEUS (BRAIN SPY PLUS)

**Power:** 2 Alkaline “AA” Batteries

**Power Consumption: 150mW**

**Channels:** 24 AC Channels, 34 Total (16/21 on BS PLUS)

**Channels Configuration:** 12 selectable (Bipolar / Common Reference) (8 on BS PLUS) 12 fixed at Common Reference (8 on BS PLUS).

**External Channel:** 2 High Level DC channels

**Integrated Sensors (MORPHEUS Only):** 2 airflow/pressure Sensors (1

Differential, 1 Gauge) - 1 Body-Position - 2 Inductive Belt Input

**Oxymeter:** 3 channels for SpO<sub>2</sub>, Heart Rate and Pletismogram

**Noise:** Input Impedance:  $>10^{12} \Omega$  CMRR:  $>100\text{dB}$ @20Hz between G1 and any other input

**Internal Sampling Rate:** 8.192Hz per channel on all channels

**Data Storage Rate:** 8:1 ( 1024 Hz ), 16:1 (512Hz), 32:1 (256Hz), 64:1

(128Hz)

**A/D Conversion: 16bit**

**EEG Dynamic range:** 6400V (97.6nV/digit)

**Flow Dynamic range:** 6400V /  $\pm 128$  cmH<sub>2</sub>O (25V/cm H<sub>2</sub>O) (Morpheus Only)

**DC Dynamic range: 1V (15V/digit)**

**Impedance Check:** Automatic

**Display:** Graphic Display 128x64 pixels for Signals, Setup, Impedance display

**Keyboard:** Membrane Keyboard with 4 keys and LED

**Clock:** Internal, with memorisation of Date, Time and events

**Data Transmission:** Digital, via cable or radio Bluetooth®

**Size and Weight:** (2.5 -> 3.5)h x 7.5 x 11.4 cm; 200g

**Operational Conditions:** temperature 0-40°C humidity 0-90%.

## HOME LTM VIDEO OPTION

Full HD Video (1920 x 1080) including Infrared Spot. Very simple operations to start the wireless synchronised video recording: just open the camera lid. No need of local PC for recording, no need of synchronization cables. The simplest and more precise Home Video EEG system ever developed.

## INTEGRATION

Morpheus with or without Home LTM option perfectly integrates in a distributed BRAIN QUICK Review system as the files generated are the very same of standard LTM recorded in the hospital. Any kind of analysis can be applied to these files.

## STATE-OF-THE-ART PSG

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

(\*) SleepRT is a registered trademark of OSG BVBA Bussestraat 17, B-2840 Rumst, Belgium.