

# SOMNOmedics

## SOMNOscreen™ plus EEG 32



### ■ Ambulatory long-term EEG

- 25 ref. EEG + 7 diff. channels + REF + GND
- 32 hour recording duration
- Continuous recording of electrode impedance
- View signal and impedance on display



### ■ Diagnostic EEG

- EEG electrode cap and adapter
- Synchronised photic stimulation
- Synchronised, wireless video recording



### ■ Sleep

- Polygraphy
- Polysomnography
  - Up to 58 channels
  - Ambulatory
  - Stationary with IR-Video and wireless data transfer

## Why does an EEG recorder need to be any bigger!

**MINIATURISED**



**MOBILE**

**FLEXIBLE**

### 58 CHANNELS MODULAR AND EXPANDABLE

32 AC (25 EEG/EOG ref, 7 EMG/ECG diff + REF + GND) • Impedance  
3x Effort • Snoring (Microphone) • Nasal/oral flow (Thermistor)  
Blood pressure • Motor activity (x,y and z axis) • AUX • 2x PLM  
Body position angle (x,y and z axis) • Nasal/oral flow (nasal cannula) • Pulse rate  
Snoring (nasal cannula) • CPAP/BiPAP pressure • SpO<sub>2</sub> • Plethysmogram  
Body position • Ext. motor activity • Ambient light • Marker button

### DATA PROCESSING / DATA TRANSFER

Filtering continuously variable

16 Bit ADC

Sampling rate adjustable for each channel from 4/s to 512/s (optional 4096/s)

File size reduced by up to 30% using data compression

### DATA STORAGE

High-speed Compact Flash Card (up to 2 GB capacity)

### SIZE AND WEIGHT

SOMNOscreen™ plus: 140 x 80 x 36 mm, 260 g (incl. Battery)

Headbox: 109 x 88 x 22 mm, 210 g

### POWER SUPPLY

Li-ION Battery (rechargeable); recording up to 50 hours

### INTERACTIVE KEYBOARD AND DISPLAY

Signal check on display (blue backlit LCD display)

Programmable start and end times

Keyboard for PC-independent use

### SOFTWARE - DOMINO

Integrated EEG und PSG standard analysis

Automatic detection of Spike-Wave Complex and artefact

EEG frequency analysis with display of individually defined frequency bands and colour-coded display of EEG power spectra "EEG power density spectra"

High resolution brain mapping in 3D with amplitude and frequency mapping (playback with slow motion and rewind) for accurate localisation of events during focal epilepsy

Referencing and displaying of the EEG channels individually adjustable (ipsilateral earlobe - A1:A2, average reference - AV, source derivation - SD)

Continuous display of electrode impedance

Standard EEG-montages pre-installed

### OPTIONS

Online data transfer:

Built-in data transmitter (up to 20m) with online signal check via tablet PC

External data transmitter (up to 100m)

Video:

Digital video camera with integrated microphone and IR spotlight

Pan, tilt and zoom controlled by software

18x optical zoom and 12x digital zoom for detailed analysis

Displaying 25 frames/sec with a resolution of 768 x 576

Audio (20 Hz - 12 kHz)

Black and white recording with IR at night

Colour recording during the day

Playback and rewind at different speeds (0.5 - 100 times) with reverse function

Camera controlling directly via software

IR light automatically turned off

Reduction of video data using latest data compression

Easy to edit, cut and archive

Storage of video sequences on CD or DVD

Optional: Intercom function through external speaker on the video camera

Photic stimulator

Adjustable flash frequency of 0.5 - 30 Hz

Programmable sequences with durations of 1s - 10min

Sensor kit for Polysomnography

LOCAL DISTRIBUTOR