

SOMNOscreen™ plus EEG 32



AMBULATORY LONG-TERM EEG

- 32 channel recorder
 - Continuous impedance testing
 - View signal and impedance on display
 - Up to 48 hours recording duration



WIRELESS EPILEPSY RECORDING

- Wireless transmission up to 100 m
 - 32 channel recorder
 - View real-time data transfer remotely with video and audio
 - Continuous impedance checking
 - Synchronized, wireless video recording
 - Advanced sampling rate up to 2048 Hz per channel



SLEEP

- Polysomnography, up to 58 channels
 - Ambulatory
 - Stationary with IR Video and wireless real-time data transfer

MINIATURIZED
MOBILE
FLEXIBLE

SOMNOscreen™ plus EEG 32

Why does your EEG recorder need to be any larger?



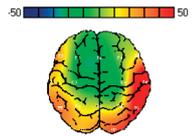
Smallest portable 32 channel long-term EEG-recorder

Synchronized wireless video with simultaneous EEG recording

Unlimited mobility of the patient using wireless real-time data-transfer

Headbox and amplifier worn on the patient

High resolution brain mapping



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) - 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 - SpO₂ - 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
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: 5.51" x 2.83" x 1.1", 9 oz (incl. battery)
Headbox: 4.29" x 3.46" x 0.87", 7.4 oz

POWER SUPPLY

Li-ION Battery (rechargeable), optional extension pack

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
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

Via radio transmitter up to 100 m (outdoor), 30 m (indoor) - LAN or USB
Via cable up to 50 m

Video

Digital video camera with integrated microphone and IR spotlight
Pan, tilt and zoom controlled by software
8x 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
Intercom function through external speaker on the video camera

Photoc stimulator

Adjustable flash frequency of 0.5 - 30 Hz
Programmable sequences with durations of 1s - 10min

Sensor kit for Polysomnography

