



# somté<sup>TM</sup> PSG

Full PSG ... absolutely anywhere



Whether you are looking for a recorder for attended sleep studies, or you wish to perform full polysomnography in an unattended, ambulatory setting, or both,



### Full PSG for in lab convenience

- Attended in lab recordings of the full complement of PSG signals using recommended technology.
- Maximum patient freedom and comfort - The patient is not tethered to any bedside unit or computer, instead data is transferred via Bluetooth wireless transmission from the patient worn unit to the bedside station.
- Do everything you can usually do with an in-lab study – monitor patient data, record synchronized digital video, add annotation, run automatic or manual on-line data analysis. Technical reports can be ready just minutes after the recording ends.
- The bedside station provides Ethernet connectivity for remote LAN/WAN/Internet viewing and acquisition.
- The bedside station allows up to 8 external DC inputs for other channel capabilities such as pH or capnography.



# somté<sup>™</sup> PSG

is the solution you're looking for - the simplest and most convenient way to meet requirements for **full PSG ... absolutely anywhere.**



### Full PSG for ambulatory recording

- The simple patient worn unit allows rapid setup and use of the system anywhere.
- Fully self contained. No PC or laptop is required to setup and acquire data, although data cards can be pre-programmed to automatically start and stop recording at pre-set times, and add patient identification to the study.
- Integrated LCD screen to check the quality of signals before or during recording.
- Unique signal status display for instant signal integrity and impedance checks. Signal integrity can be displayed during data review for quality assurance.
- Integrated storage card (Compact Flash) up to 2GB for up to 24 hours data collection.
- Uses analogue differential amplifiers for the simplest and most robust recording of physiological signals, even in less than ideal situations.



# Technical Specifications

## Available channels

- 2 x EEG
- 2 x EOG
- EMG
- ECG – with Thoracic Impedance option
- EXG – user selectable as ECG, EEG, EMG or EOG
- Airflow from Pressure transducer
- Snore
- Pressure (for CPAP/ Bilevel)
- Thoracic RIP band
- Abdominal RIP band
- Limb
- Position
- Oximeter provides SpO<sub>2</sub>, Pulse Rate, Plethysmography waveform and Oximeter probe status
- Aux selectable as thermistor, external position sensor, Aux AC or Aux DC

## Weight

- 205gm (7.2 ounces) (excluding batteries)
- **Recorder Size:** Width 113mm x Height 65mm x Depth 30mm (including belt clip), (4.4 x 2.5 x 1.2 inches)
- **Patient Input Box:** Width 53mm x Height 133mm x Depth 25mm (including belt clip), (2.1 x 5.2 x 1 inches)

## Flexible Signal Options

- Use a cannula and pressure transducer and/or thermistor to record airflow
- Use Inductive Plethysmography or thoracic impedance technology to record respiratory effort

- Use position sensor integrated into headbox or an external position sensor if preferred

## Sampling Rate

- 1-256Hz

## Wireless Technology

- Uses Bluetooth Wireless technology (Class 2) for patient comfort
- Up to 20m range from bedside station to patient - dependant on environment

## Power

- 2 x AA alkaline or NiMH batteries

## Recording Time

- For up to 24 hours of recording

## Event Button

- Any button press during recording is recorded as an event

## Electrode/Sensor status

- Electrode/sensor status indicator before and during recording as well as at review

## Software Options

- **Data Card Manager** allows selection of options, pre-set start and stop recording times, set up patient information
- **PSG Online** for monitoring attended studies via Bluetooth. Not required for unattended studies
- **ProFusion PSG** for data analysis
- **Digital Video** can be used with PSG Online
- **neXus Lab Manager** for data and workflow management



Since 1987, Compumedics Limited has emerged as a world leader in the design, manufacture, and sales of diagnostic sleep, neurophysiology, research and transcranial Doppler systems. Compumedics design expertise in the area of portable physiologic recorders and wireless data transmission is just one reason for our continued double digit growth in the USA year after year. Compumedics is improving people's lives through innovative products, exceptional service and a full range of consumables and accessories brought to you by dedicated people who care.

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