NEUROSPEC
Research Neurosciences

somté™

Explore Sleep ...Beat by Beat

COMPUMEDICS Sleep™

Finally...combined and comprehensive respiratory/ECG analysis.

Congestive heart failure affects millions of people worldwide. It has been estimated that nearly half of these individuals exhibit sleep disordered breathing patterns.

Now, Compumedics introduces Somté, a new investigative tool for "holter-style" recording of a wide range of physiological data. Somté software provides comprehensive analyses to assist in understanding the nature, severity, and interrelationship of both sleep disordered breathing and cardiac dysfunction.

somté™

Offering the best in digital technology

Superior signal recording

Somté is the crystallization of Compumedics' years of experience and technological expertise in producing amplifiers and sensors for capturing physiologic data. We selected the best measurement techniques for tracking respiratory and cardiac physiology and packaged them into Somté.

These include:

- Integrated pressure transducer for nasal flow signal/derived snoring/ CPAP pressure
- Respiratory bands that utilize inductive technology for semi-quantitative recordings
- 2 channel ECG with full disclosure
- Integrated oximeter with pulse waveform

Remarkable features in a a compact, 200 gram recorder

- Integrated, high resolution LCD display for convenient control and monitoring functions
- Three-button user friendly operations
- High capacity data storage on a removable Compact Flash card
- Powered by 2 AA batteries (Alkaline or NiMH) for portability
- Small, patient wearable, unobtrusive and light weight: system weighs only 234 grams (with batteries), (pictured actual size)

Somté offers versatility and customization with 8 data channels producing up to 13 total signals including data-types not typically offered on small, ambulatory recorders

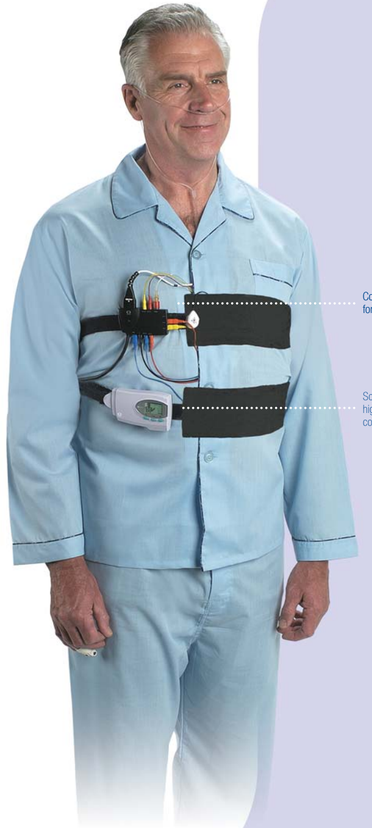
- Two high frequency channels available - configure each independently for EEG, EOG, ECG or EMG
- Configure two high frequency channels for ECG arrhythmia detection/classification and heart rate variability analysis
- Multiple ECG waveform view
- Pressure transducer for sensitive nasal airflow and CPAP measurements
- Effort signals produced from inductive band technology
- PLM data collection

Available signals

- EXG 1 (EOG, EEG, EMG, ECG, OFF)
- EXG 2 (EOG, EEG, EMG, ECG, OFF)
- Pressure
- Airflow
- Snore
- Thoracic Effort
- Abdominal Effort
- Limb movement
- Body Position
- SpO_2
- Pulse rate
- Pulse waveform
- Oximeter signal quality

Somté records all the raw waveforms

- All raw data is available for review in multiple, user-defined formats
- Battery support for recordings up to 30 hours
- Removable Compact Flash card storage



Color coded electrodes/sensors for user friendly application

Somté recorder offers an integrated, high resolution LCD screen for control functions and waveform display.

COMPUMEDICS Sleep™

Somté includes software to quickly analyze and automatically report a wide range of respiratory related data. Order the optional Somté ECG Analysis package for advanced automatic processing of cardiac signals for arrhythmias and heart rate variability.

Comprehensive and unique analysis software options

Somté software package includes:

- Full waveform review
- Automatic respiratory event detection and statistics (central apnea, obstructive apnea, mixed apnea, hypopnea, SpO_2 desaturation events and artifacts)
- Oximetry analysis
- Full manual event editing capabilities (deletion, reclassification, marking new)
- Event searching
- View patient information
- Comprehensive report generation with user definable template
- Full disclosure printing

Optional Somté ECG Analysis package includes:

- Automatic analysis with statistics and histograms
- QRS complex classification
- Arrhythmia detection and classification
- ECG statistics during respiratory events
- Trend data for ST segment and normal R-R interval (heart rate)
- Heart rate variability analysis
- 24 hour ECG with full disclosure trace display and printing
- ECG template classification and editing

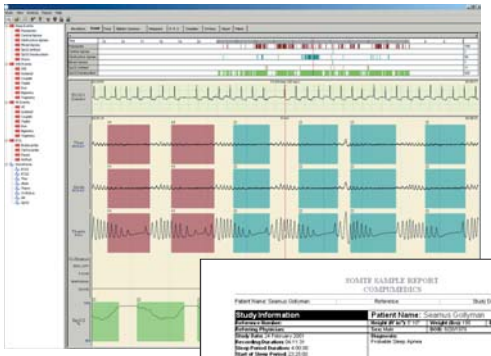
Somté Software System Requirements:

A Personal Computer (PC) with one of the following operating systems installed:

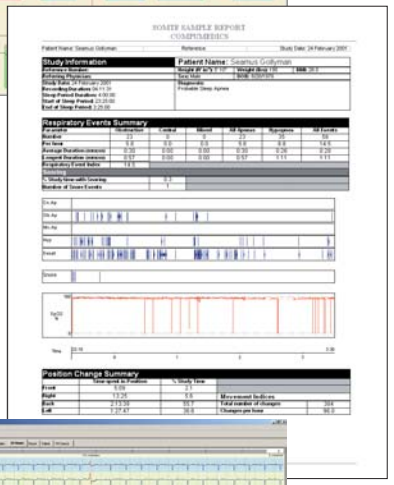
Microsoft Windows XP, Windows 2000 (Service Pack 2 or higher), Windows NT 4.0 (Service Pack 4 or higher), Windows 98 (2nd edition).

- 300 MHz processor (1.8 GHz or higher recommended for optimal performance); Intel Pentium/Celeron family, or compatible processor
- 128 MB RAM (256 MB or higher recommended for optimal performance)
- 1.5 GB of available disk space
- Microsoft compatible mouse
- USB port to accommodate the standard compact flash card reader*
- Super VGA adaptor and monitor (24 bit color, 1280 X 1024 pixels or higher recommended).

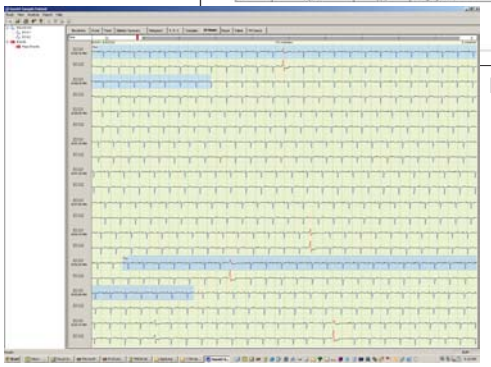
*Microsoft Windows NT Users -
Please discuss your needs with your Somté distributor.



Respiratory Events



Report View



Full 24-hour 5 lead ECG recording

Compumedics divisions:

COMPUMEDICS Sleep
COMPUMEDICS NeuroScience
COMPUMEDICS Neuroscan
COMPUMEDICS NeuroMedical Supplies

For more information please contact:

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'Defining *Life's* Signals'