

® somté ^{HST} night insight

See more and do more with Somte for HST

Standard Product Package includes:

- Somté Recorder and Amplifier assembly with LCD display
- Compact Flash Card for data storage
- Complete sensor kit (Nasal cannula, RIP band x2, oximeter probe, position sensor, limb movement sensor, electrode set and disposable pre-gelled patches)
- Custom carry case

Versatile data options

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 to support sleep staging (using the optional ProFusion PSG Somté Edition software)
- Configure two high frequency channels for ECG arrhythmia detection/classification and heart rate variability analysis (using the optional ECG Analysis software)
- Pressure transducer for sensitive nasal airflow, snore and CPAP measurements
- Effort signals produced from inductive band technology
- Available Somté triple-thermistor for thermal airflow recording (input into the Leg channel)
- PLM data collection (using the provided dual-limb, piezo-sensor)

Standard Somté software package includes:

- Full disclosure waveform review
- Automatic respiratory event detection and statistics (central apnea, obstructive apnea, mixed apnea, hypopnea, SpO2 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

Available ProFusion PSG software package includes:

- Manual and automatic sleep staging
- Automatic respiratory event detection and statistics (central apnea, obstructive apnea, mixed apnea, hypopnea, SpO2 desaturation events and artifacts)
- Advanced reporting capabilities, with multiple report templates
- Full integration with the ProFusion neXus Lab Management System

Available ECG Analysis software option includes:

- Automatic "Holter-style" 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 (HRV) analysis
- 24 hour ECG with full disclosure trace display and printing
- ECG template classification and editing



Pressure channel

Type: Piezoresistive pressure transducer
Bandwidth: Nasal Airflow channel 0.05 to 10 Hz (-3dB)
 Snore channel 10Hz to 400Hz (-3dB)
 Pressure channel dc to 10 Hz (-3dB)
Range: Pressure ± 30 cm H₂O
Accuracy: Pressure ± 1 cmH₂O
 16 bits with 32 samples per second

Respiratory Channels

Number: 2
Type: Respiratory inductive plethysmography (RIP)
Bandwidth: 0.05 to 10Hz -3dB bandwidth
Accuracy: 16 bits with 32 samples per second

Oximeter

SpO₂: SpO₂ from 70% to 100% at one sample per second
Accuracy: (± 1 standard deviation) ± 3 digits
Heart rate: Accuracy $\pm 3\%$ ± 1 digit
Plethysmography waveform: Sampled output at 75Hz

Leg channel (piezo sensor) or Optional thermal airflow channel with Compumedics Somté triple- thermistor

Bandwidth: 0.05Hz to 10Hz (-3dB)
Input range: 10mV
Accuracy: ± 0.1 mV for inputs < 1 mV otherwise $\pm 10\%$
 16 bits with 32 samples per second

Position channel

Input calibrated to Compumedics 4-position sensor (Left, Right, Front, Back)
Bandwidth: DC to 10Hz (-3dB)
Input range: ± 250 mV
Accuracy: ± 3 mV for inputs < 30 mV otherwise $\pm 10\%$
 16 bits with 32 samples per second

EXG Channels

Number: 2
Type: differential with reference (for ECG, EEG, EOG or EMG)
Bandwidth: 0.05 to 100Hz -3dB bandwidth
 0.14 to 50Hz flat response bandwidth
Software based display filtering of 37Hz in 0.1Hz steps
Notch Filters: 50 Hz, 60Hz or Off via software filters
CMRR: > 100 dB, 10k Ω imbalance
Impedance: 20 M Ω
Input Current: Typically 10nA, 30nA max
Input Range: 10mV p-p
Accuracy: ± 0.1 mV for inputs < 1 mV otherwise $\pm 10\%$
 16 bits with 256 samples per second
Noise: < 5 μ Vpp
Maximum Electrode DC Offset: ± 350 mV

System Environmental Requirements

Transport and Storage Conditions: -20°C (4°F) to +50°C (122°F)
 30-95% RH non-condensing conditions
Operating Temperature: Ambient operating temperature range:
 0°C - 45°C (32°F - 113°F)
Altitude: Less than 3,000 meters

Classification

Type: Internally powered equipment
Degree of protection: Type CF applied parts
Degree of safety: Equipment not suitable for use in the presence of a FLAMMABLE ANAESTHETIC MIXTURE WITH AIR or WITH OXYGEN OR NITROUS OXIDE
Mode of operation: Continuous

Dimensions

Main unit (H x W x D): mm: 65 (H) x 115 (W) x 30 (D)
 Inches: 2.5 (H) x 4.5 (W) x 1.2 (D)
Sensor interface (H x W x D): mm: 45 (H) x 80 (W) x 22 (D)
 Inches: 1.75 (H) x 3.15 (W) x 0.9 (D)
Weight: 250 grams (8.2 oz)

Power

Type: 2 by AA alkaline or rechargeable NiMH batteries
Consumption: Approximately 30 hours record time with alkaline batteries

Storage

Type: Compact Flash Card
Format: ATA compatible FAT16 file system

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See the full range of
 Compumedics Sleep products at:

www.compumedics.com

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