NEUROVIRTUAL

sleep VIRTUAL

Humanizing diagnostics

Home Sleep Testing
HST Compass

MADE IN THE U.S.A
PREMIUM QUALITY

Request
information

HST Compass: Home Sleep Testing equipment

The HST Compass is the most complete and innovative home sleep testing device available in the market. Specially developed for Type III HST (Home Sleep Testing), includes an LCD screen where it is possible to perform bio-calibration of recorded parameters before the exam begins. It has a built-in pressure transducer for pressure flow and pressure snore monitoring. It also includes 2 RIP effort belts along with Nonin pulse oximetry integrated that allows apnea identification by delivering a complete record of patient signals presented. Two auxiliary AC channels allow for the diagnosis of: EEG, EKG, EMG (Chin/Limbs), Therm Flow, Piezo Snore, ect. Three auxiliary DC channels available for expansion allow for the diagnosis of: PAP Titration (IPAP, EPAP, LEAK, ect.), CO2 Monitoring (ETCO2, TcPCO2, ect.).

BWAnalysis Software

BWAnalysis software suite offers a robust, user friendly, and intuitive sleep platform which exceeds American Academy of Sleep Medicines (AASM) requirements. BWAnalysis is a collective result of our software development team's daily mission to stride for a reliable and high technology sleep software solution while prioritizing customer suggestions and requests. BWAnalysis has been streamlined to allow users to completely customize their workspace and staging/scoring configurations to create a sleep software environment which adapts to the users specific needs rather than the user adapting to the sleep software.

• Intuitive and user friendly.
• Customizable to meet user needs.
• Both manual and automatic scoring is available for parameters, such as snoring, hypopnea, obstructive apnea, mixed and central apnea, desaturation, artifacts etc.
• Custom sleep hypnograms / graphs and template reports.

Accessories

Nonin pulse oximeter

MaxxiRip (THX & ABD) Adjustable Belt
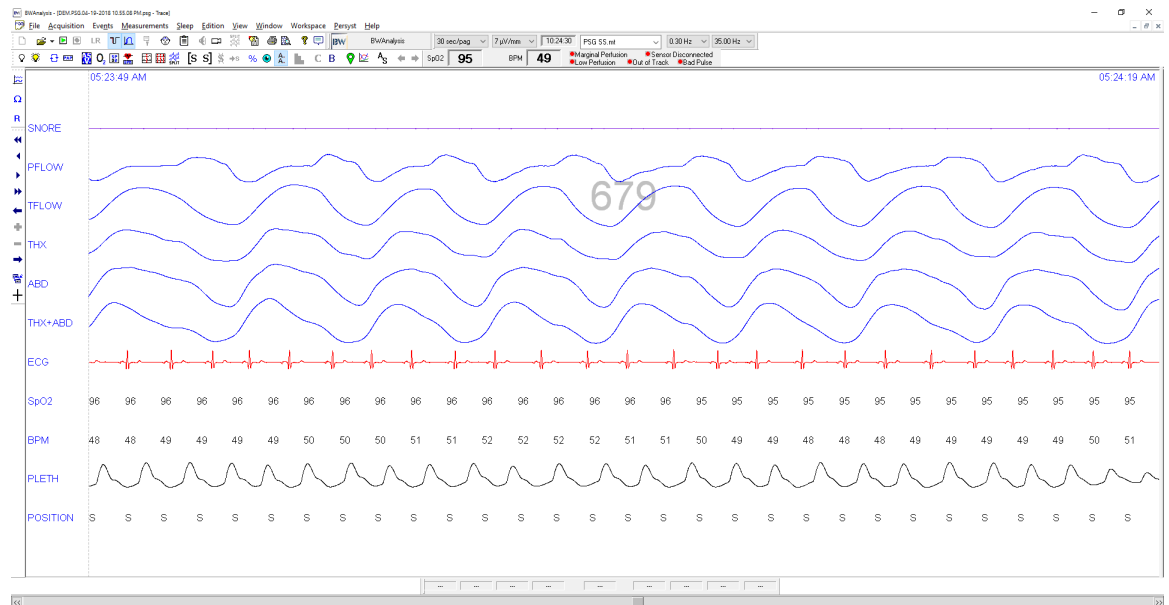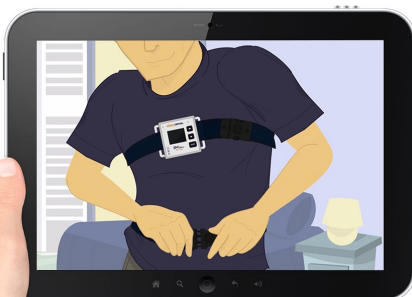
Carrying case

Multimedia card with a instructional tutorial video

Product Specification HST Compass

Channels:
Total qty: 13 channels
2x AC Bipolar
1x Pressure Transducer (Flow and Snore)
2x RIP Channels (Thorax & Abdomen)
1x SpO2
1x Pulse rate
1x Plethysmogram
1x Body position (Accelerometer)
3x DC Channels (-5VDC to +5VDC)
Luminosity sensor

Communication
micro USB (fast speed)
Display:
High resolution display to show the following information:
Study Status
Status Battery Status
Study Duration
Study Traces
Spo2, BPM, Pleth (by Nonin XPOD module)
Oximeter status
RIP Belts status
Cannula status
Current Body Position

Memory:
Total qty: 13 channels
Micro SD Card with capability of recording multiples studies
Power requirements:
1x AA 3V battery
Possibility to use rechargeable batteries
Enough to record up to 12 hours

Characteristics	Models / Values
Study Type:	HST, PSG Type III
Total Channels (Qty.):	13
AC Channels (Qty.):	2
DC Channels (Qty.):	3
Oximeter channels:	3 channels: SpO2, BPM and plethysmography
Pressure Transducer:	Built –in for HST and PSG 0 to 1 PSI (Snore and Pressure Signals)
Body Position Sensor:	Built-in (Left, Right, Prone, Supine and Stand)
Notch Filter:	50Hz or 60Hz
Sensitivity Range:	1uV to 500uV
Light detector sensor:	Sensor sensible to luminosity changes
Real time clock:	YES
Memory Card:	Micro SD Card
Data Transfer to PC:	Micro SD Card or USB connection
	Current USB 2.0 Full speed
Battery:	AA 3V battery
Resolution:	16 Bits
Data flux:	Microprocessor
Sampling rate:	Up to 500Hz
Bandwidth:	0.054 to 100Hz
AC channels Input Range:	5mVpp
DC channels Input Range:	-5Vcc to +5Vcc
AC Channels connector type:	Touch Proof 1.5mm Touch Proof Key for PSG sensor
DC Channels connector type:	P2 - 3.5mm with cable adapter
Cannula connector type:	Luer Lock
Communication connector:	Micro USB
Oximeter connector:	Binder
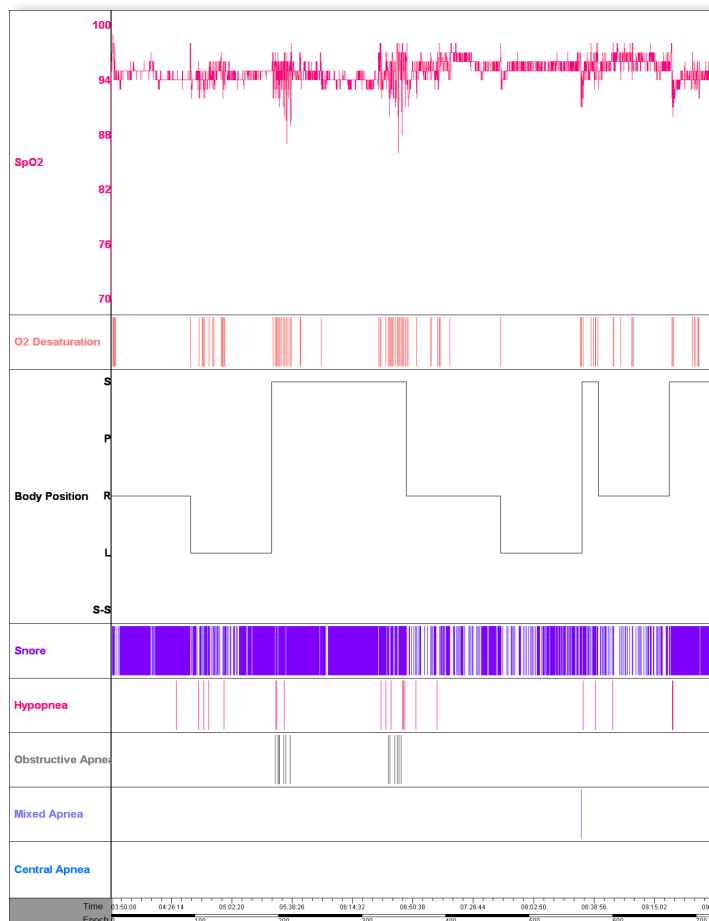
HST Compass Report

HST Compass delivers the most complete reports. Custom MS Word based sleep report templates can be created for each study type. It is possible to create custom patient demographic and sleep parameter tables, sleep hypnograms / graphs, and diagnosis / recommendations.

Complete reports with:

1. Patient data.
2. Study information, date, duration, start, and end times.
3. Respiratory data charts with apnea index, hypopnea, desaturation, Cheyne Stokes, information.
4. Pulse Oximetry charts.
5. Heart rate statistics.
6. Snoring Event charts.

Contact Neurovirtual to request more information or a demonstration.

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