

THE EASIEST WAY TO PREDICT THE FUTURE OF SLEEP DIAGNOSTICS IS TO INVENT IT

Intelligent Connect™

Automatic sensor & electrode recognition – making montages a thing of the past

Excellent signal quality

PSG System with up to 70 channels, 4 kHz sample rate with 24 bit resolution

HD touch screen

Allows PC independent set-up, bio-calibration & impedance check at the bedside

**ACTUAL
SIZE**

Small compact design

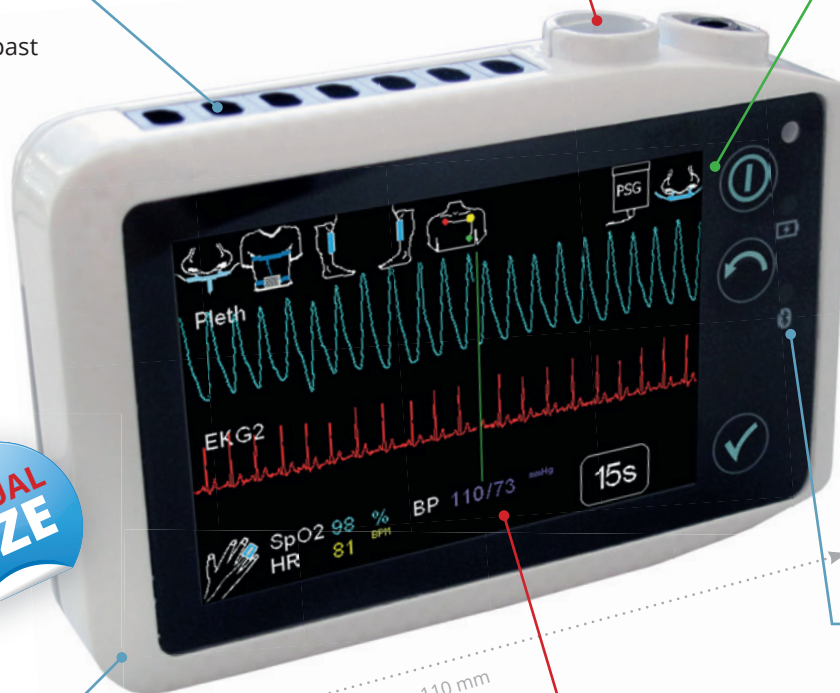
One device fits all, allowing ambulatory & stationary applications

Cuffless beat-to-beat blood pressure measurement

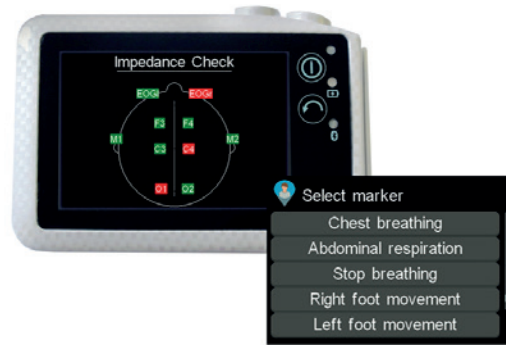
A new era in measuring blood pressure in a sleep laboratory – with no sleep disturbance

True wireless technology

Real-time wireless data transmission. Wireless sensors available for patient comfort and mobility



The future has arrived – our most powerful & flexible sleep diagnostic tool. Built from over 20 years of experience as thought-leaders in sleep diagnostics. Delivering results and features that will exceed your expectations.



HD Touch Screen

- ◆ Start the data recording on the device
- ◆ Bio-calibration at bedside
- ◆ Signal check on the screen
- ◆ Intuitive interface with gesture control
- ◆ Zoom to a selectable time base



Supreme Signal Quality

- ◆ Up to 4 kHz sample rate per channel
- ◆ Unique active sensor technology
- ◆ Up to 24 bit resolution for EXG channels
- ◆ Excellent signal-to-noise ratio
- ◆ Continuous impedance recording



Video camera

Isn't it time you cut the cables to your PLM sensors?
The SOMNO HD™ is capable of up to 6 wireless connections – the first of these are the wireless PLM sensors.

Why use a Wireless Sensor?

- ✓ Outstanding signal quality
- ✓ Time saving application
- ✓ Freedom of movement for the patients
- ✓ Reduction of wear-and-tear on connectors and cables

Intelligent Connect™

- ◆ Automatic sensor recognition - no montages required
- ◆ Save time with freely selectable channels
- ◆ Clear icons to easily identify connected sensors

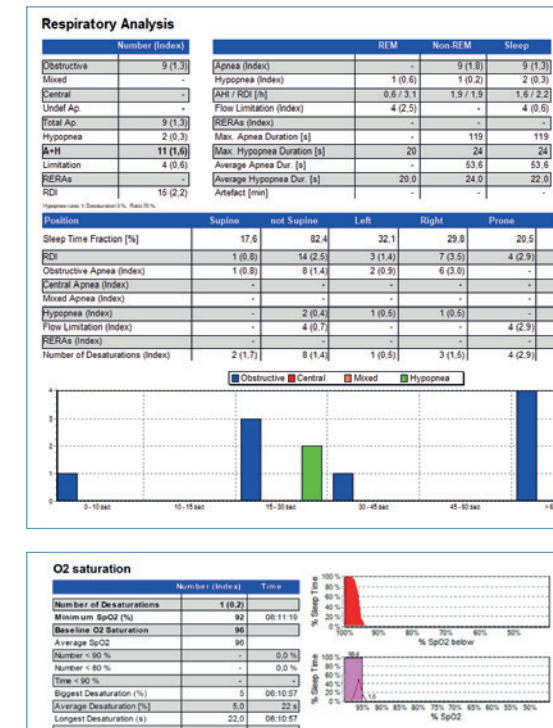
Docking Station & Software

- ◆ 90 min fast charge for an 8 h PSG recording
- ◆ Quick data transfer (Approx. 100 s for a full night study)
- ◆ PC interface – graphical based control
- ◆ Powerful DOMINO software platform
- ◆ Manual, semi-auto and automatic scoring available



Automatic
free updates
for life

A small example from the available sleep reports



Overview



* not visible

Technical Specifications

Data collection

Sample rate 4 kHz / channel in device, 1 kHz / channel in headbox, EXG channels with 24 bit resolution, signal-to-noise ratio (EEG 0.2 μ V, EMG 0.3 μ V)

Data storage / Data transfer

8 GB Micro SD card. Built-in Bluetooth transmitter for wire-less real-time data transfer & recording on PC. Transfer of recorded data on Micro SD via the docking station

70
Channels

24
Bit



Display

Capacitive touch screen with gesture control (480 x 320 pixels)

Size and weight

110 x 74 x 24 mm, 190 g (incl. battery)

Power supply

Li-Ion battery (changeable), rechargeable via docking station

Analysis software:

DOMINO

SOMNO HD™ - PSG Configuration

EEG

- ◆ Sleep: AASM or R&K standards
- ◆ Simplified Sleep: 2 options
- ◆ 32ch longterm EEG recording

Obstructive or central apnea?

With IC EMG - you can now better distinguish between obstructive and central apneas.



IR video camera options

A full range of IR video cameras both home based and lab based online video options available.
Contact us for further information.



Pediatrics

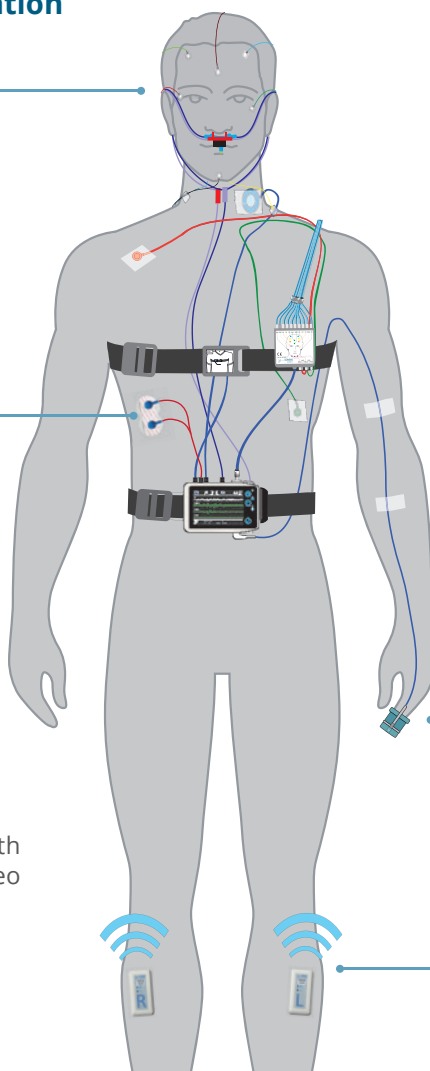
A full range of pediatric sensors is available and our DOMINO software has semi-automatic or manual pediatric analysis.

Arousals

Arousal scoring based on the ability to pick up the reaction of the autonomous nerve system to awakenings in the plethysmogram.

PLMs

Both wireless & wired versions available.



SOMNO HD™ Signal and Sensor Options*

INTEGRATED	OPTIONAL SENSORS*					
Body position	SLEEP STAGING OPTIONS					
Movement	AASM Headbox - 17 EXG (10 x EEG/EOG, 3 x EMG, 1 x ECG)		Simplified Sleep Staging (Light, 2 x EEG, 2 x EOG)			
SpO ₂	SLEEP LAB SENSOR OPTIONS					
Pulse rate	Thermistor (flow)	Microphone (snore)	Second RIP belt	2 x PLM sensor	Bruxism	
Plethysmogram	Extra EMG	Pneumotachograph	IC-EMG	Pediatric sensors	External body position	
RIP belt	Activity sensor	Sidestream CO ₂	Transcutaneous CO ₂	1 or 3-channel ECG		
Pressure flow	EEG SYSTEM OPTIONS					
Snoring via pressure sensor	EEG Headbox - 32 ch (25 x EEG/EOG, 6 x EMG, 1 x ECG)			Photo stimulator		
CPAP pressure	ONLINE (IN-LAB) OPTIONS					
Patient marker	Bedside signal check		Wireless transfer to PC		Intercom	
Ambient light	Infrared camera		Pan-Tilt-Zoom Camera (IR)		HD video (IR)	
Intelligent power management	EXCLUSIVE TO SOMNOmedics					
	Cuffless beat-to-beat blood pressure measurement		Up to 6 EMG Wireless sensors (or 2 x PLMs)	Home Sleep Cam (offline video at home)	High freq. snoring	
	SPECIAL OPTIONS			WE RESEARCH ONLY SENSORS AVAILABLE. Contact us for further information.		
	Connect external devices	CPAP integration				

* Not all sensors and options are available in all countries. Please check with your local dealer for further information.