

# 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

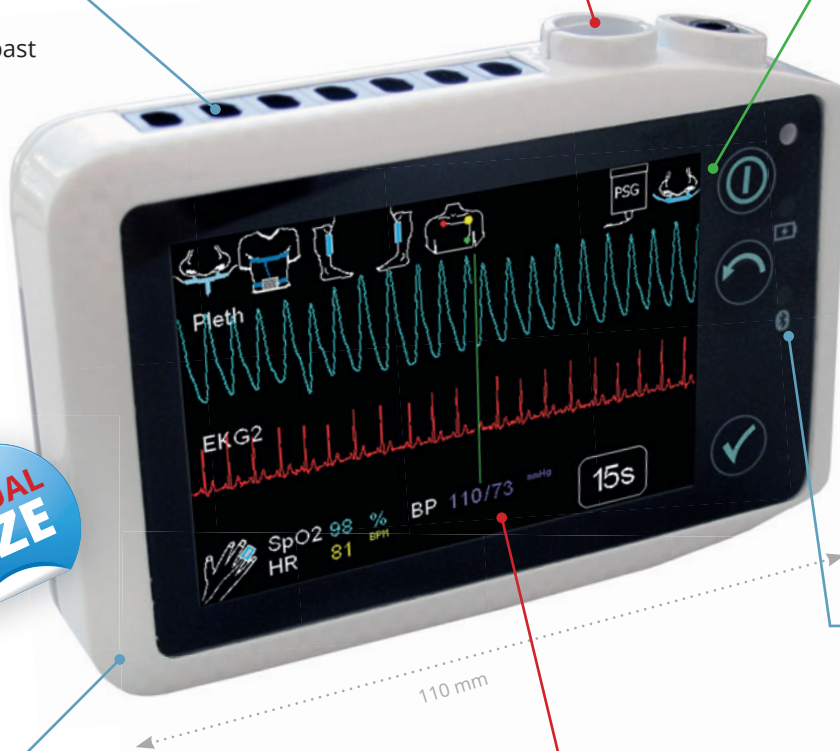
One device fits all, allowing ambulatory & stationary applications

## 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



# FEATURES

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

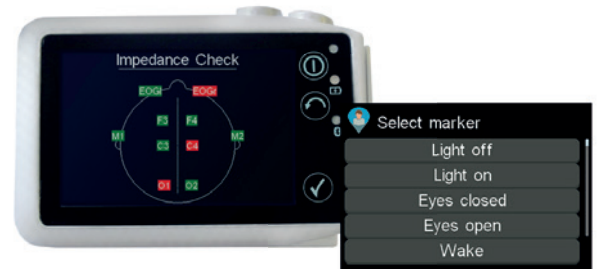
## Supreme Signal Quality

- ◆ 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



## 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



## 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
- ◆ Semi-automatic and manual scoring available



Video camera  
(optional)



Automatic  
free updates  
for life

Wireless PLM Sensors



## 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.

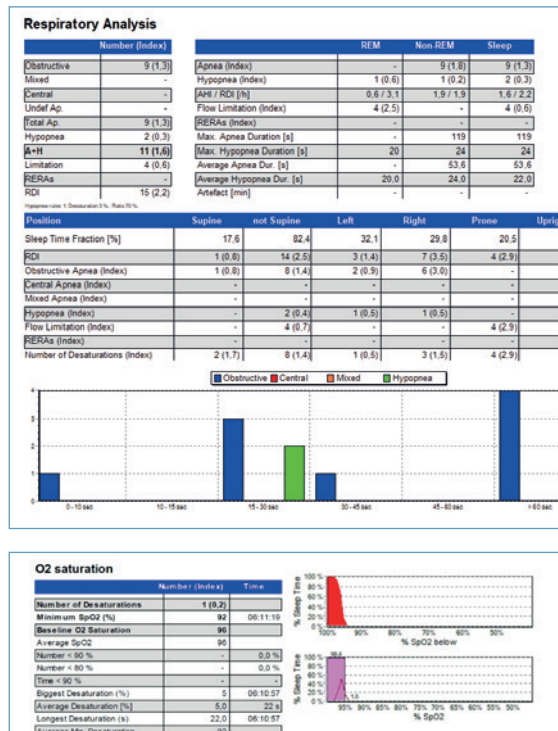
## Intelligent Connect™

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

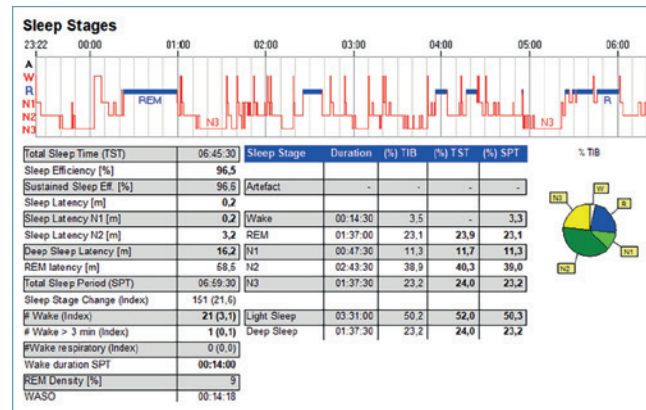
## A small example from the available sleep reports



## Domino Sleep Diagnostic Software Platform

Not only does it pack all the standard sleep related functions but a staggering array of features and benefits that will suit even the most discerning sleep laboratory.

Visit [www.somnomedics.eu](http://www.somnomedics.eu) or ask for our dedicated DOMINO brochure for more information.



## 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  $\mu$ V, EMG 0.3  $\mu$ 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
- ◆ 32 ch longterm EEG recording

### Pediatrics

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

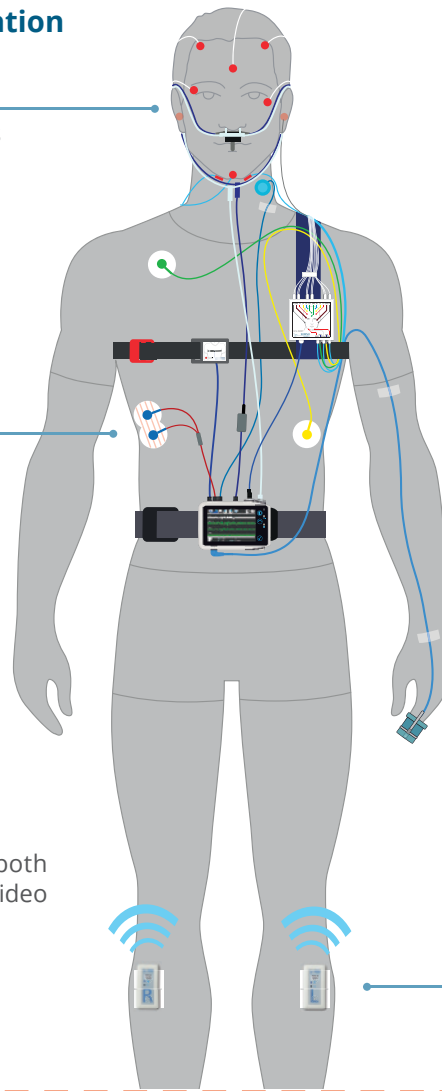
### Obstructive or central apnea?

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.



### 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	<b>SLEEP STAGING OPTIONS</b>			
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 <sub>2</sub>	<b>SLEEP LAB SENSOR OPTIONS</b>			
Pulse rate	Thermistor (flow)	Microphone (snore)	1 or 3-channel ECG	2 x PLM sensor
Plethysmogram	Extra EMG	Pneumotachograph	IC-EMG	Pediatric sensors
RIP belt	Activity sensor	Sidestream CO <sub>2</sub>	Transcutaneous CO <sub>2</sub>	Bruxism
Pressure flow	External body position	Second RIP belt		
Snoring via pressure sensor	<b>EEG SYSTEM OPTIONS</b>			
CPAP pressure	EEG Headbox - 32 ch   (25 x EEG/EOG, 6 x EMG, 1 x ECG)			Photo stimulator
Patient marker	<b>ONLINE (IN-LAB) OPTIONS</b>			
Ambient light	Bedside signal check	Wireless transfer to PC	Intercom	
Intelligent power management	Infrared camera	Pan-Tilt-Zoom Camera (IR)	HD video (IR)	
	<b>EXCLUSIVE TO SOMNOmedics</b>			
	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 frequency snoring
	<b>SPECIAL OPTIONS</b>		<b>RESEARCH ONLY SENSORS AVAILABLE</b>	
	Connect external devices	CPAP integration	Contact us for further information	

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