SOMNO HD™

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

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

Intelligent Connect™

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

ACTUAL SIZE

Pleth

EKG2

15s

BP 110/73 mmHg

SpO2 98 %
HR 81 BPM

PSG
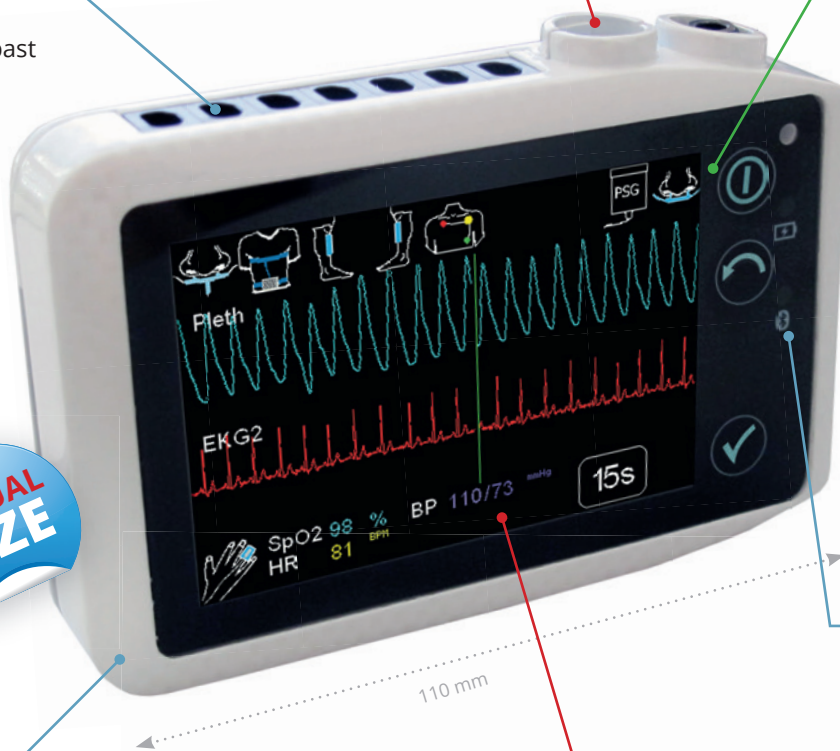
74 mm

110 mm

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

SOMNO *medics*

Made in Germany

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

Impedance Check

Select marker
- Chest breathing
- Abdominal respiration
- Stop breathing
- Right foot movement
- Left foot movement

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

WPLM 0030   WPLM 0033

L   R

Wireless PLM Sensors

A small example from the available sleep reports

Respiratory Analysis

O2 saturation

Sleep Stages

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 or ask for our dedicated DOMINO brochure for more information.

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

Overview

Headbox Connector

Pressure Flow Connector

7 External Sensor Plugs:
With up to
4 channels each

Ambient Light Sensor

RIP Effort

Start

Docking Station Connector*

SpO₂ Connector*

Battery Compartment*

Multicolour Touch Display

* not visible

Intelligent Connect™

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

Automatic free updates for life

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

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 µV, EMG 0.3 µV)

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

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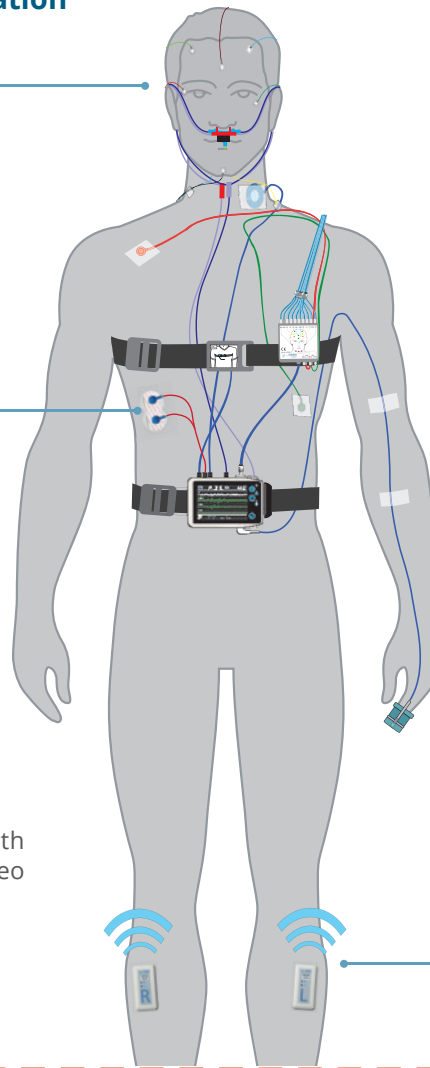
Obstructive or central apnea?

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	**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.**		
	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.

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