

# SOMNOscreen™ plus

# THE ORIGINAL & PROVEN PORTABLE PSG DEVICE

**Up to 58 Channels with excellent signal quality**

For all PG & PSG applications with unique active sensors

**Wireless data transfer**

In real time – for patient comfort and mobility

**Colour & mechanical coded inputs**

For easier sensor handling

**ACTUAL  
SIZE**



**Small compact design**

One size fits all, allowing ambulatory & stationary applications.

**Cuffless beat-to-beat blood pressure measurement**

A new era in measuring blood pressure in a sleep laboratory – without disturbing sleep

**LCD Screen with control keys**

Allows PC independent set up & signal quality check at the patient bedside

The **SOMNOscreen™ plus** is the foundational PSG Diagnostic technology pioneered by SOMNOmedics. Ahead of its time then, and now, it continues to provide market leading diagnostics across the world.

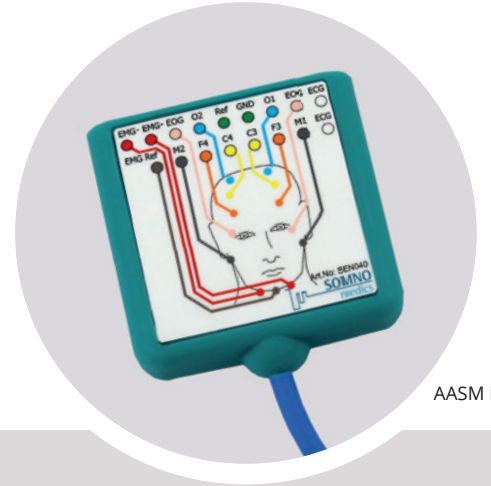


## Thoughtful Compact Design

- ◆ Small and comfortable to wear
- ◆ Rechargeable Li-Ion battery
- ◆ LCD Screen with control keys
- ◆ Start the data recording on the device

## Unlimited Mobility for Patient & Physician

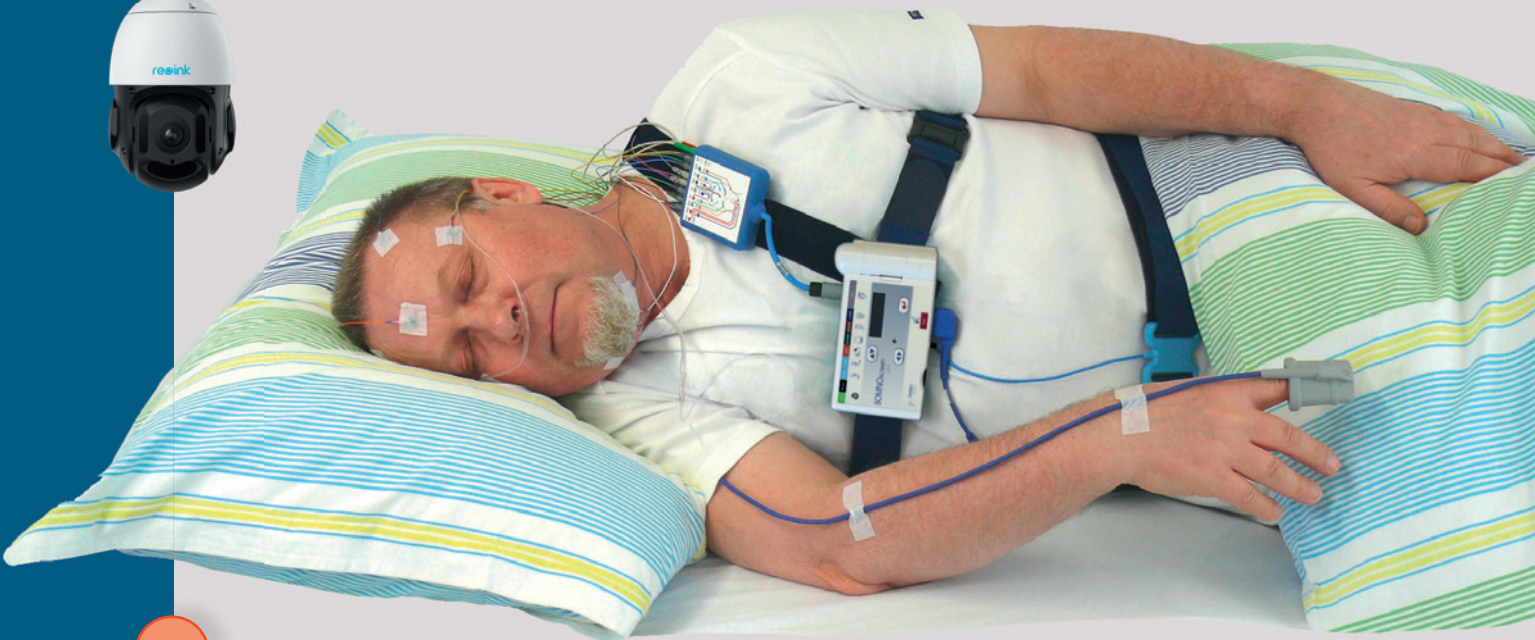
- ◆ PIN-encrypted data transfer via bluetooth
- ◆ Flexibility for the clinic and mobility for patients
- ◆ Backup of recorded data onto a memory card – No loss of data in case of power failure, PC problems or if the patient leaves the room



AASM Headbox



Video camera



## Versatile

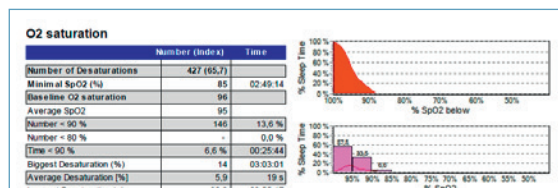
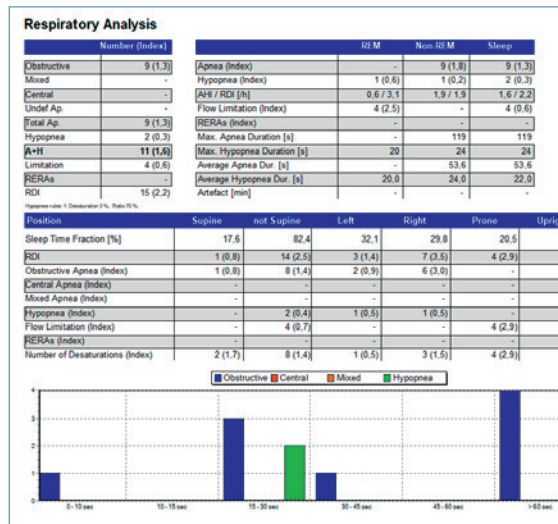
- ◆ From basic respiratory screening to a full PSG recording with video
- ◆ Stationary or ambulatory configurations with video
- ◆ Continuous impedance recording

## Dedicated APP for Full Control at Bedside

- ◆ Signal check on the screen
- ◆ Biocalibration at bedside
- ◆ Zoom to a selectable time base
- ◆ Intuitive interface with gesture control



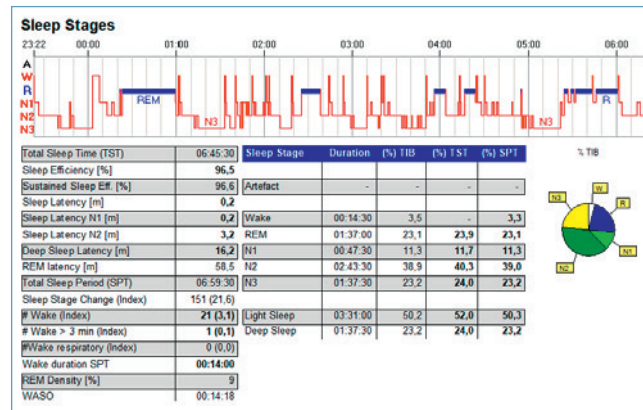
## A small example from the available sleep reports



## 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

Ambient Light Sensor

Marker Button for Relevant Events

Compact Flash Card

Eject Button

SpO<sub>2</sub> Connector

Interface Port

## Technical Specifications

### Data collection

Data Collection Sampling Rates: Active Filtering with 16 Bit ADC. Sampling Rates adjustable from 4/s to 512/s (4096/s optional)

### Data storage / Data transfer

Built-in BT data transmitter (up to 20 m) with online signal check at the patients bedside via tablet or PC. Simultaneous storage on a Compact Flash Card (up to 2 GB capacity)

### Display

LCD screen with control keys

58  
Channels

16  
Bit



### Size and weight

140 × 70 × 28 mm, 220 g (incl. battery)

### Power supply

Li-Ion battery (changeable)

### Analysis software

DOMINO



## SOMNOscreen™ plus – 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.

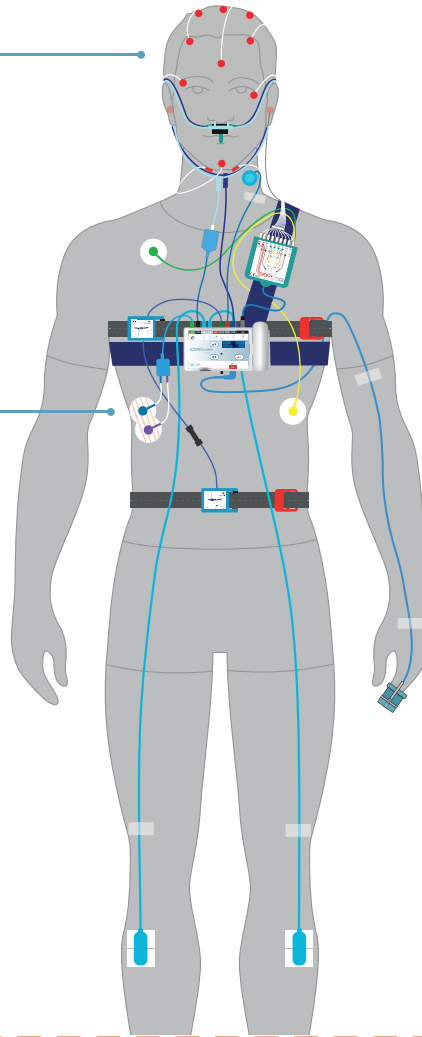
### Obstructive or central apnea?

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



### IR video camera options

We offer IR video cameras for home-studies as well as for the sleep laboratory. 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

## SOMNOscreen™ plus Signal and Sensor Options

INTEGRATED	OPTIONAL SENSORS*				
Body position	<b>SLEEP STAGING OPTIONS</b>				
Movement	AASM Headbox – 17 EXG (10 × EEG/EOG, 2 × EMG, 1 × ECG)		Simplified Sleep Staging (1 × EEG, 2 × EOG)		
SpO <sub>2</sub>	<b>SLEEP LAB SENSOR OPTIONS</b>				
Pulse rate	Thermistor (flow)	Microphone (snore)	Second effort belt	2 × PLM sensor	Bruxism
Plethysmogram	Extra EMG	Pneumotachograph	External body position	Pediatric sensors	IC-EMG
Effort belt	Activity sensor	1 or 3-channel ECG	Transcutaneous CO <sub>2</sub>	Sidestream CO <sub>2</sub>	Pressure flow
Patient marker	<b>EEG SYSTEM OPTIONS</b>				
Ambient light	EEG Headbox – 32 ch   (25 × EEG/EOG, 6 × EMG, 1 × ECG)			Photo stimulator	
Intelligent power management	<b>ONLINE (IN-LAB) OPTIONS</b>				
	Bedside signal check		Wireless transfer to PC		
	Pan-tilt-zoom HD camera with integrated IR illuminator and loudspeaker/microphone for 2-way audio				
	<b>EXCLUSIVE TO SOMNOmedics</b>				
	Cuffless beat-to-beat blood pressure measurement	Home Sleep Camera (offline video at home)	High frequency snore		
	<b>SPECIAL OPTIONS</b>			<b>RESEARCH ONLY SENSORS AVAILABLE. Contact us for further information.</b>	
	Connect external devices	CPAP integration			

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