

OUR BIGGEST IDEAS IN OUR SMALLEST SLEEP DIAGNOSTIC DEVICE

Intelligent Connect

Automatic sensor recognition – making montages a thing of the past

Touch screen display

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

Small compact design

Same footprint as a credit card allowing unparalleled comfort. ONLY 64 g! Ideal for pediatric applications

Cuffless beat-to-beat blood pressure measurement

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

Modular & upgradable

With 11 internal channels and an additional 4 channels per AUX connector – its even upgradable to a full PSG

Low running costs

Re-usable sensors and minimal disposables. Built-in Li-Ion rechargeable battery

55 mm

84 mm

**ACTUAL
SIZE**

FEATURES

The **SOMNOtouch™ RESP** combines the comfort, function and power of much larger sleep diagnostic devices but in a small perfectly formed size. At only 64 g and 84 mm x 55 mm - it is one of the lightest, most modular & powerful polygraphy devices on the market today.

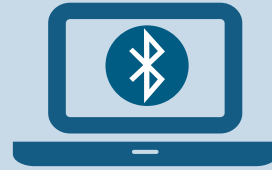


Colour Touch Screen

- ◆ Start the data recording on the device
- ◆ "Intelligent" identify attached sensors
- ◆ Signal check on the screen
- ◆ Zoom to a selectable time base
- ◆ Easy to use interface

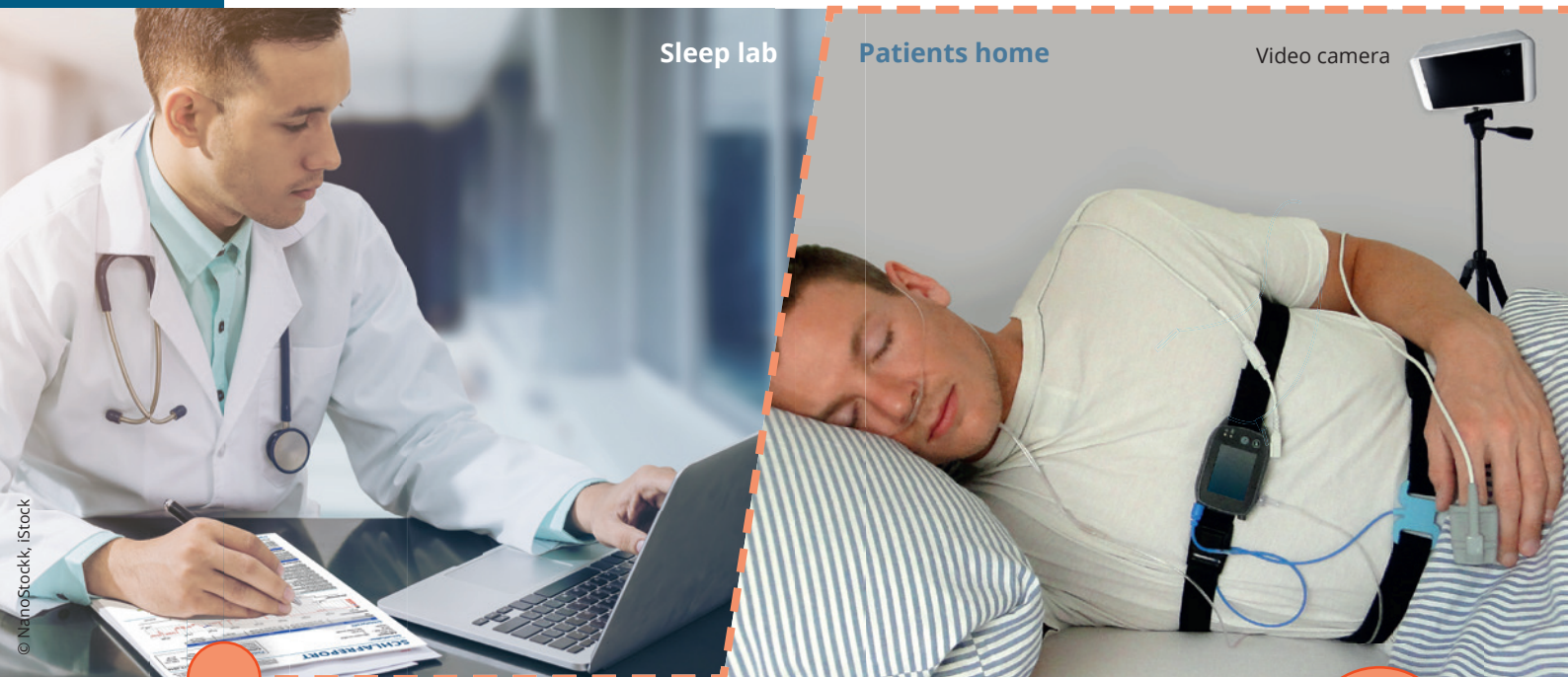
Versatility – In a compact design

- ◆ Basic respiratory screening
- ◆ CPAP/BiPAP/SV/ASV titration
- ◆ Upgradable to full AASM PSG with video
- ◆ Minimal costs per measurement
- ◆ Configurable for many reimbursement systems



Mobile Check

Save time and money by getting a screenshot of the recording for a signal check to your PC, Tablet or Smartfon – ideal for ambulatory applications to ensure the study is running smoothly.



Sleep lab

Patients home

Video camera

Intelligent Connect

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

Docking Station & Software

- ◆ 60 min fast charge for an 8 h PG recording (approx.)
- ◆ Quick data transfer (Approx. 60 s for a full night PG study)
- ◆ PC interface – graphical based control
- ◆ Powerful DOMINO light software platform
- ◆ Manual, semi-auto and automatic scoring available



Automatic
free updates
for life

A small example from the available sleep reports

Respiratory Analysis			
	Number (Index)		Sleep
Obstructive	144 (22.1)	Apnoea (Index)	-
Mixed	96 (14.7)	Hypopnoea (Index)	-
Central	111 (17.0)	AHI (h)	83 (12.7)
Undef. A.	-	Flow Limitations (Index)	-
Total Apn.	351 (53.7)	Max. Apnoea Duration (s)	-
Hypopnoea	83 (12.7)	Max. Hypopnoea Duration (s)	-
AHI	434 (66.5)	Average Apnoea Dur. (s)	-
Limitations	-	Average Hypopnoea Dur. (s)	-
RDI	434 (66.5)	Artifact (min)	-

Position	Supine	not Supine	Left	Right	Prone	Upright
Sleep Time Fraction (%)	100.0	-	-	-	-	-
Total Events (Index)	434 (66.5)	-	-	-	-	-
Obstr. Apnoea (Index)	144 (22.1)	-	-	-	-	-
Central Apnoea (Index)	111 (17.0)	-	-	-	-	-

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.

Heart Rate			
	Sleep	Wake	
Acceleration (Index)	52 (7.5)	2 (3.5)	
Deceleration (Index)	49 (7.1)	3 (5.3)	
Athymia (Index)	-	-	
Maximum HR (bpm)	96 (22:22:45)	88 (23:37:02)	
Minimum HR (bpm)	50 (03:14:23)	61 (23:33:23)	
Average HR (bpm)	72	74	

Snore Analysis

	All	Prone	Supine	Left	Right	Upright
Snore (Index)	89 (13.3)	-	81 (12.3)	-	-	8 (80.0)
Absolute Snore (min)	0.9	-	0.8	-	-	0.1
Snore Episodes (min)	0.7	-	0.6	-	-	0.1
Snore Epis. (% Sleep Time)	0.2					

O2 saturation			
	Number (Index)	Time	
Number of Desaturations	427 (65.7)		
Minimum at SpO2 (%)	85	02:49:14	
Baseline O2 saturation	96		
Average SpO2	95		
Number < 90 %	148	13.6 %	
Number < 80 %	-	0.0 %	
Time < 90 %	6.6 %	00:25:44	
Biggest Desaturation (%)	14	03:03:01	
Average Desaturation (%)	5.9	19.8	
Longest Desaturation (s)	90.2	03:55:17	

Sleep/Wake			
22:01	23:00	00:00	01:00
02:00	03:00	04:00	05:00
W	Sleep	Wake	Sleep
Total Sleep Time (TST)	06:54:49	% Sleep Time	92.4
Sleep efficiency (%)	92.4	% Wake Time	7.6
Sleep Latency (min)	0.0		

Overview



Technical Specifications

Data collection

Data transfer via USB, 12 Bit signal resolution. Individually adjustable sample rate from 4 Hz to 512 Hz

Data storage

Internal data storage, 512 MB capacity. Charging and data transfer via docking station

Size and weight

83 x 55 mm, 64 g (incl. battery)

25
Channels

12
Bit



Display

High resolution, colour touch display (320 x 240) pixels

Power supply

Li-Ion battery (rechargeable), up to 18 hours recording duration (in PG config.)

Analysis software

DOMINO light

SOMNOtouch™ RESP – PG Configuration

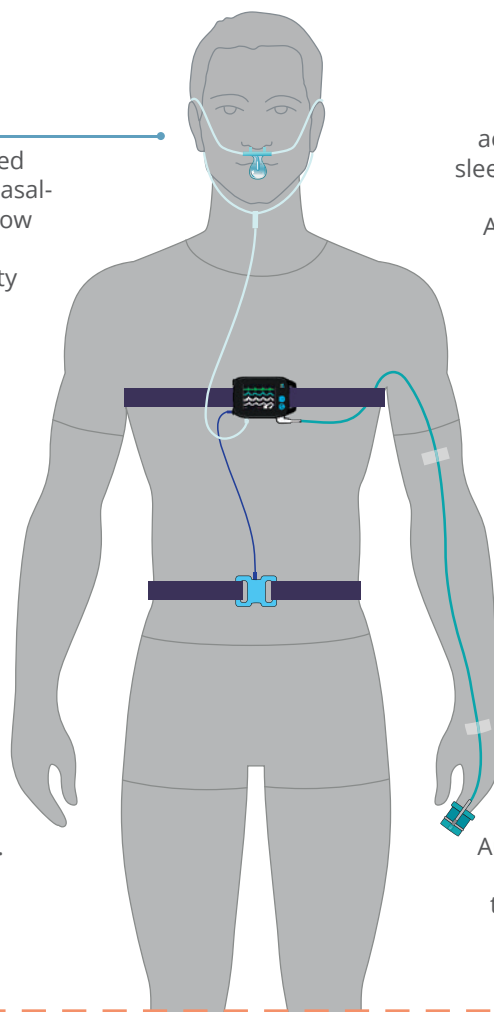
Respiratory

Flow and snore can be recorded with an optional disposable nasal-oral cannula – together with flow linearization in DOMINO light software, allows high sensitivity and specificity in detecting respiratory events – without a thermistor.



Add video to your home sleep test

A full range of both offline, or in the PSG configuration, online video options available. More information is available in our SOMNOtouch™ PSG brochure.



Sleep staging

Use the built-in body position and activity sensor or add the simplified sleep staging sensor to quantify sleep staging. An AASM headbox is also available.

Combi-sensors available

Upgrade your sleep screener to a full PSG by adding PLMs and ECG sensors.

Arousals

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

SOMNOtouch™ RESP Signal and Sensor Options

INTEGRATED	OPTIONAL SENSORS*				
Body position	SLEEP STAGING OPTIONS				
Movement					
SpO ₂	AASM Headbox - 10 EXG (6 x EEG/EOG, 1 x EMG/ECG)		Simplified Sleep Staging (Light, 1 x EEG, 2 x EOG)		
Pulse rate	SLEEP LAB SENSOR OPTIONS				
Plethysmogram	RIP belts	Second effort belt	Pneumotachograph	2 x PLM sensor	Bruxism
Thorax	Sidestream CO ₂	Transcutaneous CO ₂	3 channel ECG	1 channel ECG	IC-EMG
Pressure flow	COMBI SENSORS (sensors connected in combination)				
Snoring via pressure sensor	Effort + 1 x PLM	Effort + 2 x PLM	Effort + 2 x PLM + 1 x ECG	RIP + Thermistor	IC-EMG +1 x ECG
CPAP pressure	ONLINE (IN-LAB) OPTIONS				
Patient marker	Bedside signal check	Wireless transfer to PC	Pan-Tilt-Zoom Camera (IR)	Intercom	
Intelligent power management	Infrared Camera	HD video (IR)			
	EXCLUSIVE TO SOMNOMedics				
	Cuffless beat-to-beat blood pressure measurement		Home Sleep Cam (offline video at home)		
	SPECIAL OPTIONS				
	Pediatric sensors	CPAP integration	Connect external devices		
* Not all sensors and options are available in all countries. Please check with your local dealer for further information.					

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