

# SLEEP DIAGNOSTICS FOR CHILDREN? AS EASY AS 1, 2, 3.....

PEDIATRICS



SOMNOmedics is a global leader in pediatric sleep diagnostics, with some of the smallest devices offering a wide range of child specific sensors, and a selection of innovative home sleep camera options, it's easy to see why we are the preferred choice.

- \* Compact Design – The SOMNO HD™ is just 110 x 74 x 24 mm and weighs 190 g (incl. battery)
- \* The device can be used as a stationary device for children from the 1st month of life
- \* Intelligent Connect™ – Automatic sensor and electrode recognition – making montages a thing of the past
- \* Color touch screen - Allows PC independent set-up, bio-calibration & impedance check at the bedside
- \* Special newborn template preloaded in our DOMINO sleep analysis software
- \* Telemetric data transfer whilst data is also stored automatically on an SD card - allowing full mobility of the child
- \* Many built in sensors – less cables – meaning higher comfort for the child & care giver
- \* A large range of pediatric sensors available
- \* True wireless technology - Real-time wireless data transmission.

## SOMNOmedics pediatric products

...because even astronauts and princesses need a good night's sleep

### Integrated Channels:

Body position, Movement, SpO<sub>2</sub>, Pulse rate, Plethysmogram, RIP belt\*, Pressure flow, Snoring via pressure sensor, CPAP pressure, Patient marker, Ambient light, Intelligent power management.

\*For smaller children the device can be placed beside the patient.



### MOBILE SIGNAL CHECK

Save time and money by sending a screenshot of the study data to your PC, tablet or Send smartphone.



### Sensors

- AASM Headbox - 17 EXG (10 x EEG/EOG, 3 x EMG, 1 x ECG) **OR** EEG Headbox - 32 ch (25 x EEG/EOG, 6 x EMG, 1 x ECG)
- EEG/EOG Combi-Sensor
- SpO<sub>2</sub> Sensor (SpO<sub>2</sub>, Pulse rate, Plethysmogram)
- Thermistor
- Inductive Effort Belts
- 1 - Channel ECG
- PLM Sensors (Wireless version also available)
- Pneumotachograph
- IC-EMG Sensor
- High Sampling Microphone
- Analog optocoupler, 1-channel or 4-channel, for recording external analog signals
  - » Digital optocoupler to connect the LoFlo capnometer
  - » External activity sensor
  - » External battery (for increasing recording time)
  - » Sensor for determining electrodermal activity (EDA)

### Integration of external signals

- CO<sub>2</sub> monitor (transcutaneous) integration
- Easy to record extra diagnostic parameters: Our devices can record up to 16 additional external signals via our range of 'optocouplers'
- True sound recorded with the Home Sleep Camera



Video camera (optional extra)



TCM5 FLEX transcutaneous CO<sub>2</sub> monitor - integration via optocoupler (optional)

### DOMINO Software Features

- Specific analysis templates for children
- Create a generic channel for 'Undefined Apnea' & 'Periodic breathing' events and define the keys for scoring
- The patient does not tolerate the thermistor and nasal cannula? Then use the 'sum effort' as breathing source

	Delta	Alpha + Beta
Wake	1	4
REM	1	1
Trans.	5	5
NREM	10	2
Movement	4	3

◀ Parameters for newborns up to the age of 5-6 months

	Delta	Alpha + Beta	AP
Wake	1	4	3
Rem	1	1	2
Stage 1	5	5	5
Stage 2	5	5	5
Stage 3	10	2	3
Stage 4	10	2	3
Movement	4	3	4

Staging for children & adults ▶