

# 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 camera options, it's easy to see why we are the preferred choice.**

- \* Compact Design – The SOMNO HD is just 110 × 74 × 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.

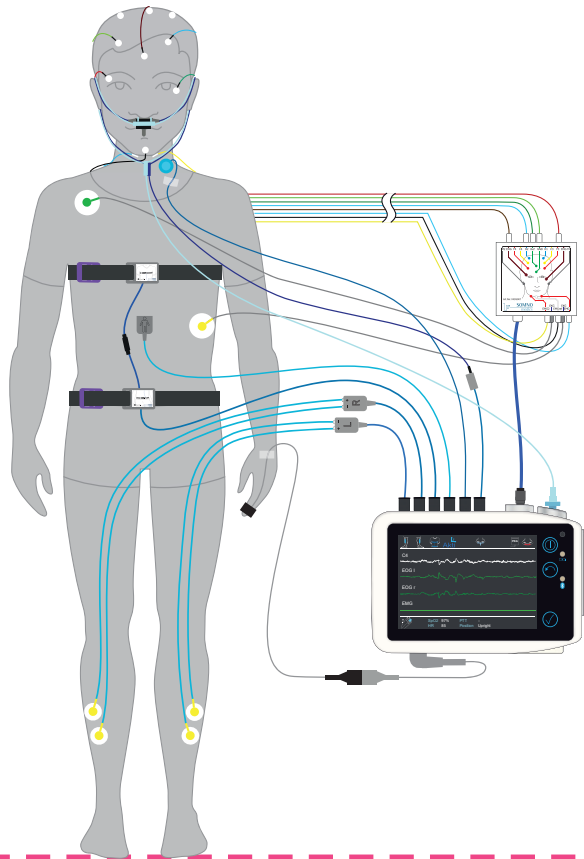
## SOMNOmedics pediatric products

...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 smartphone.

### Sensors

- AASM Headbox – 17 EXG (10 × EEG/EOG, 3 × EMG, 1 × ECG) **OR**
- EEG Headbox – 32 ch (25 × EEG/EOG, 6 × EMG, 1 × ECG)
- EEG/EOG combi-sensor
- SpO<sub>2</sub> sensor (SpO<sub>2</sub>, Pulse rate, Plethysmogram)
- Thermistor
- Inductive effort belts
- 1-Channel ECG + position
- 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 infrared video camera



Infrared video camera (optional)



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	AFV
Wake	0	15	4
REM	0	0	1
N1	1	3	5
N2	2	2	5
N3	15	1	3
Artefact	0	0	4

Staging for children > & adults