

Actigraphy measurement



- Relaxation-Activity-Profile for determination of circadian rhythm
- Recording of the motor activity for:
 - ▶ Sleep-Wake-Estimation
 - ADHS Diagnostics
 - Training / Sport / Rehabilitation
 - PLM recorder
- Tremor-Analysis (determination of frequency via FFT)

SOMNOwatch[™] plus Acti

- Recording time up to 15 days
- Storage of raw data with 128 Hz
- Easy handling for patient and physician
- Patient marker for identification of relevant events during recording
- Built-in sensor for ambient light and body position

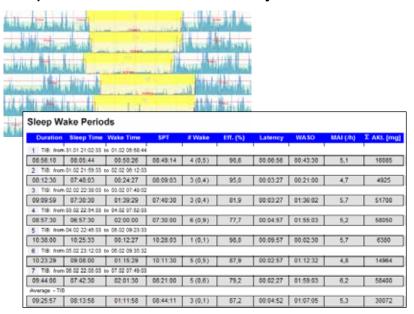


Sleep wake profile during 7 days

SOMNOwatch[™] plus Acti

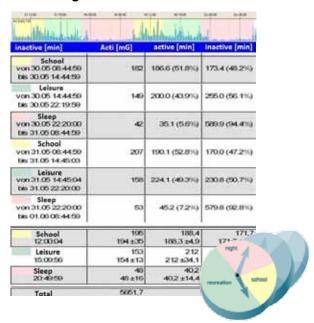
Recording of motor activity

Sleep/Wake estimation* and circadian rhythm



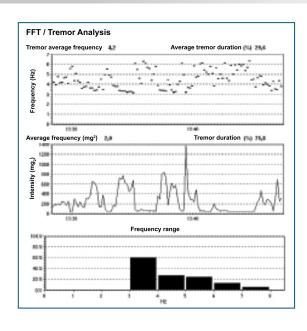
- For detection of Sleep/Wake-rhythm: Application to the non-dominant arm
- Recording of activity in epochs of 1- 120s and display in a actigraphy profile
- Determination of the relevant recording time and day/night with the built-in light sensor

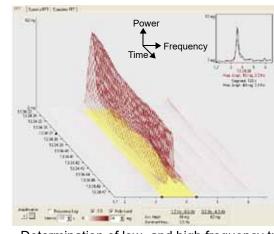
ADHS diagnostics



For ADHS diagnostics pre-selected periods of time can be allocated to specific activities, such as school, breaks and recreation

Tremor Analysis





- · Determination of low- and high frequency tremor and amplitude
- · Graphic presentation of tremor frequency and intensity
- Calculation of average tremor frequency and duration
- Detailed display of frequency range (adjustable limits)

7 internal channels
Body position, 3 activity sensors (x, y, z-axis, magnitude), ambient light, patient marker
Data recording Data recording
adjustable sampling rate up to 128/s, small file sizes thanks to compressed data storage
Power supply

Li-Ion battery, 630mAh, rechargeable

Size and weight

45 mm diameter x 16 mm (incl. battery), 30 g

Device funnctions

Recording duration up to 15 days

Battery charging and data transfer via docking station programmable start and endtimes, delayed auto start splashproof

* Dick, R., et al., AASM standards of practice compliant validation of actigraphic sleep analysis from SOMNOwatch versus polysomnographic sleep diagnostics shows high conformity also among subjects with sleep disordered breathing. Physiological measurement, 2010. 31(12): p. 1623-33.

