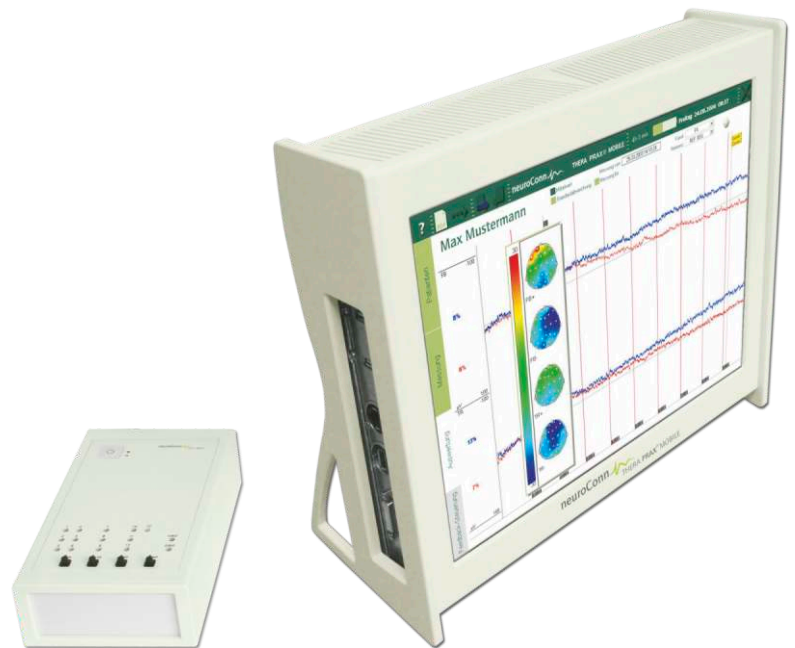


# Measuring and Modulating Brain Activity



## neuroConn THERA PRAX<sup>®</sup> MOBILE

### DC-EEG biofeedback system

The THERA PRAX<sup>®</sup> MOBILE is a biofeedback system supporting patients to learn to self-regulate their brain activity (EEG-Biofeedback). It is intended to be used for EEG biofeedback with the slow cortical potentials (SCP) protocol in the treatment of children with attention-deficit/ hyperactivity disorder (ADHD).

In addition, the THERA PRAX<sup>®</sup> MOBILE reliably records multi-channel EEG, ECG, and EMG signals as well as peripheral bio-signals to describe psychophysiological correlations during relaxation or a stressful situation. To individually control the progress of therapy, cognitive evoked potentials can be recorded.

Due to the very close cooperation with leading scientific institutions in the field of biofeedback, our devices incorporate the latest medical research results.

#### Advantages of the THERA PRAX<sup>®</sup> MOBILE

- Standardized, clinically evaluated protocol for EEG biofeedback of the slow cortical potentials (SCP)
- Automatic online correction of artifacts and eye movements
- Biofeedback training with breathing, temperature, GSR, pulse curve

Moving thought

neuroCare 

### THERA PRAX<sup>®</sup> MOBILE Features

- Portable full-band DC-EEG biofeedback system
- Complete system consisting of a 13-channel full-band DE-EEG amplifier, a mobile PC with integrated 15" TFT colour display, software for biofeedback and analysis, keyboard, mouse
- Feedback of the slow cortical potentials (SCP) with online correction of artifacts and eye-movements
- EEG biofeedback with frequencies and ratios
- Free choice of frequency band, algorithm and combinations of the two (ratio, arithmetics, correlation, coherence, bicoherence etc.)
- Audio-visual feedback and animation
- Free choice of feedback channel (unipolar, bipolar, source, multi-channel)
- Biofeedback with EMG, ECG and corresponding signals, e. g. heart rate
- Analysis of single session and comparison of multiple sessions
- Patient database with medication and examination calendar, complete documentation of readings

### THERA PRAX<sup>®</sup> MOBILE Specifications

#### Full-band DC-EEG and BIOSIGNAL AMPLIFIER

- 24 bit resolution per channel
- Selectable sample rate of 32 to 4,096 sps
- Frequency range of 0 to 1,200 Hz depending on sampling rate
- Power supply via replaceable, rechargeable batteries
- Continuous operation time > 8 h
- Data transmission using optical cable

Please visit [www.neurocaregroup.com](http://www.neurocaregroup.com) for detailed technical specifications.

### THERA PRAX<sup>®</sup> MOBILE Options

- Module to correct EEG artifacts (blinking, eye movement, body movement) in real time
- Module for cognitive evoked potentials: CNV, P300, ERN and readiness potential
- Secondary monitor for the patient
- Advanced Analyzer: Modul for the detailed analysis of the therapy of an individual patient or groups of patients
- Biofeedback with breathing, temperature, GSR, pulse curve
- Trolleys for the save and comfortable transportation

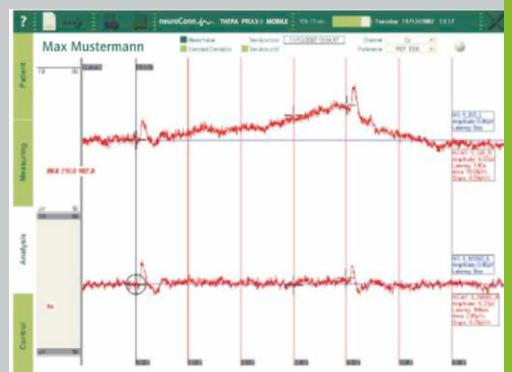
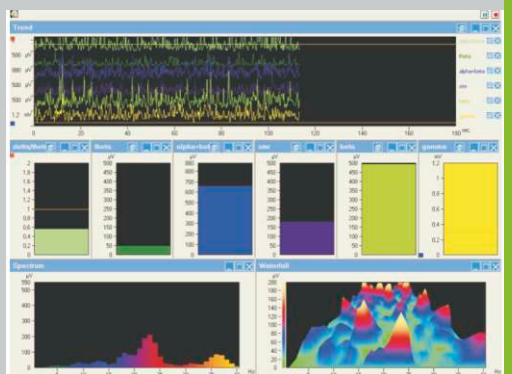
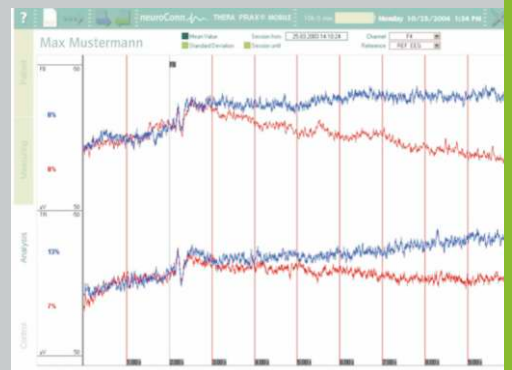
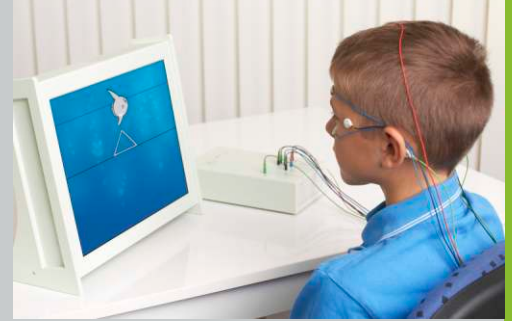


### About EEG biofeedback

Biofeedback is a computer-aided method in which parameters of the patient's body are measured via sensors and transformed into visible or acoustic signals on a computer screen. It is well accepted in psychology as a method of operant learning and is used in behavioral therapy.

EEG-biofeedback visualizes normally unperceivable brain activity on a display and the patient learns how this activity can be influenced in a systematic manner.

The method is used in the treatment of children aged 7 to 9 with attention-deficit/hyperactivity disorder (ADHD) for reduction of core symptom severity.



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