neurocare

DC-STIMULATOR MOBILE

Measuring and Modulating Brain Activity

for therapeutic application

Transcranial electrical stimulation for use in clinical routines

The DC-**STIMULATOR** MOBILE is a clinical stimulator designed to be used in clinics and medical practices. Using this device, doctors and psychologists can carry out transcranial direct current stimulation (tDCS) using weak currents up to 2mA over 15 to 30 minutes.

tDCS represents part of interventional neurophysiology; the electrical charges and densities administered during tDCS are below the threshold for releasing a stimulus and take modular effect to existing neuronal elements.

The DC-**STIMULATOR** MOBILE is used for transcranial Direct Current Stimulation for symptom relief in depression. It can be applied as monotherapy or in combination with other treatments. For patients with selective serotonin reuptake inhibitor (SSRI) medication and failure to another drug, no further benefit of tDCS beyond unspecific effects can be expected.

Use of the DC-STIMULATOR MOBILE:

The DC-**STIMULATOR** MOBILE can be used as part of the day-to-day routine of therapy centers and practices. The device is best used when:

- therapy is carried out according to a fixed protocol and predefinded dosage, which are not changed,
- patients are to be treated within fixed time spans.

Made in Germany

DC-STIMULATOR MOBILE Features

Stimulation
- tDCS, DC intensity of -2,000 µA up to +2,000 µA
- deviation of the nominal value of DC current: max 2%
- hardware offset: ±10 µA
- voltage limit: max. ±16 V

General
- power consumption: max. 0.25 W
- power supplied by a built-in, rechargeable, leak-proof battery within the Storage Module, re-charges via USB
- runs continuously for around 90 min (dependant on stimulation mode and battery condition)
- grafical display, 1 button

Dimensions in mm
- Stimulator: 71 x 94 x 15, weight 66 g
- Programmer: 71 x 62 x 15, weight 46 g
- Storage Module: 71 x 39 x 15, weight 42 g
- Charge-only device (optional): 71 x 61 x 15, weight 46 g

When ordering the device, the user specifies a stimulation configuration. A configuration can include up to 8 different stimulation sequences, which can then be selected on the stimulator unit. After the device is delivered, the DC-**STIMULATOR** MOBILE only functions in this mode. This effectively prevents inadvertent or unintended changes to the stimulation parameters and facilitates the use of the device in the daily routine.

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Components of the basic set of devices

The DC-**STIMULATOR** MOBILE is delivered as a set of devices. The basic package can be supplemented as needed for different therapy situations.

6 storage modules: The Storage Module stores the parameters of the next stimulation (stimulation sequence(s), number and order of the enabled stimulation sequences and a start time, if desired), as well as the electrical energy necessary for the operation of the Stimulator. The log-data recorded during an stimulation is also stored in the Storage Module.

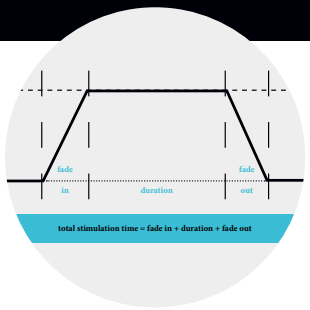
2 stimulators: The Stimulator only functions in conjunction with a fully configured and charged Storage Module. They apply a current according to the stimulation sequence programmed into the Storage Module.

2 programmers: The Programmer transfers data between the PC software and the Storage Module and can also charge the battery contained in each Storage Module.

PC software: To operate the DC-**STIMULATOR** MOBILE, a computer with a stable internet connection and a USB port is required. The software provided by neurocare organises the configuration and charging of the Storage Modules, as well as the transfer of log-data into the databank.

Case: Each set of devices is delivered in a hardshell case. This allows for the devices to be safely transported and conveniently stored.

If you plan to use the DC-STIMULATOR MOBILE in double-blinded studies, please contact the producer for further information.



tDCS: total stimulation time = fade in + duration + fade out

DC-STIMULATOR MOBILE
Basic set of devices

DC-STIMULATOR MOBILE
application with electrode cap

neurocare group AG
Rindermarkt 7
80331 Munich, Germany
info@neurocaregroup.com
T +49-89-356 4767 0
www.neurocaregroup.com

neuroConn GmbH
Albert-Einstein-Str. 3
98693 Ilmenau, Germany

CE 0123

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