Biomonitor ME6000

Meets the most demanding needs

mega

Multisignal system
Long-term measurements
Online telemetry / datalogging
Versatile analysis tools for research

Biomonitor ME6000 is a portable telemetry and data logger designed to meet the most demanding needs in measurement and monitoring of electromyography (EMG) and other physiological signals up to 16 channels simultaneously.

This ambulatory unit includes the unique features of pocket-size data logger and wireless online telemetry in a single compact unit. The device has several applications in laboratory environment as well as in varying field conditions.

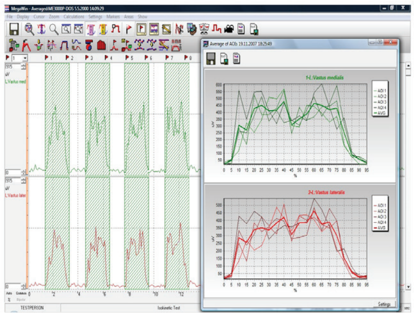
Advanced technology - You can use Biomonitor ME6000 for reliable diagnose e.g. low back pain or tension neck. In addition, it is advantageous to utilize the device for targeted training, rehabilitation and relaxation therapy too.

Ideal for rehabilitation - ME6000 allows you to objectively evaluate muscle functions. On this account the device is an ideal choice when rehabilitating stroke patients or patients with other neurological injuries. With ME6000 it is easy to accurately define stimulus response as well as conduction velocity. The device is also often being used in gait analysis and in pre/post operative monitoring in knee and hand operations.

Comfortable working - With ME6000 you can define work loading during different work tasks as well as define working place ergonomics. By using ME6000 it is easier to select the most ergonomic tool for certain work task as well as give consultation on ergonomics. Moreover, the device makes it possible to diagnose e.g. low back, neck and shoulder problems as well as muscle dysfunction.

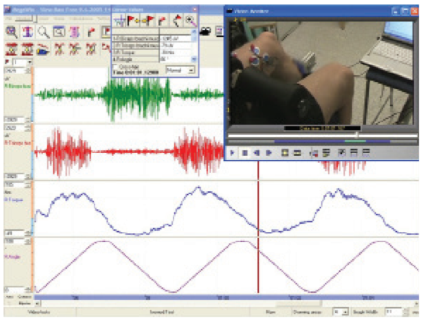
Optimized training - There are several ways of utilizing ME6000 in sports medicine. You can use the unit when testing reaction times, muscle power production, muscle coordination, endurance and activation orders of muscles, just to name a few applications. ME6000 also helps you to conduct functionality tests and ergometry tests. The device is an ideal choice for optimizing the training.

Advanced analyzing with MegaWin software



ME6000 comes with versatile MegaWin software which offers easy-to-use data acquisition software platform with full range of features:

- Personal data management and database
- Easy-to-use graphical configuration system setup for different signals
- Protocol wizard for multiple applications
- Multiple real-time features for raw and averaged signal, visual and auditory biofeedback, FFT-spectrums etc.
- Optional complete body 3D muscle/nerve maps
- Versatile and automated reporting



New protocols can be created easily and quickly with step by step progressing wizard. Software includes anatomical muscle maps with electrode placement pictures of each muscle.

MegaWin data can be exported as binary, ASCII and EDF file as well as in Matlab-format for further analysis. C3D-format allows input of MegaWin data into motion analysis systems. Data export enables flexible and effective data analysis and measurements by using several computers.

Comprehensive customization for ME6000

ME6000 is a multifunctional tool for different measurement purposes. ME6000 can be customized by combining it with other devices/modules.

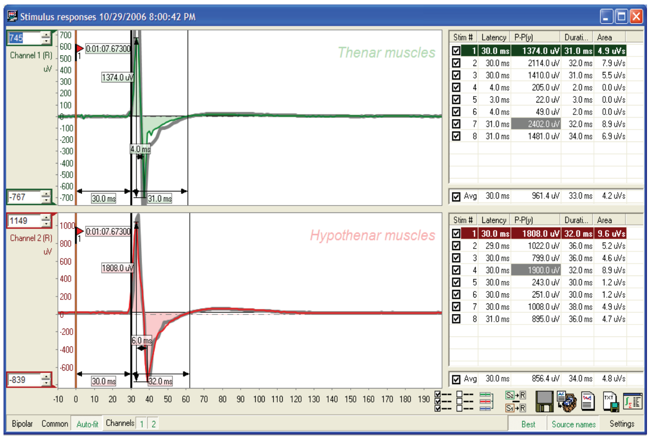
- Inclinometer
- Gonio- and torsiometer
- Heart rate sensor
- Load cell, force and pressure sensors
- Accelerometer
- Gyro sensor
- GSR sensor
- EMG, ECG preamplifiers
- Waterproof kit for underwater measurements
- Customized modules and transducers

MegaWin software options

For MegaWin you can also have the following supplementary options:

- Neuro-option
- Digital video option
- 3D anatomy models

For further information about the software, please see MegaWin software brochure.



Technical specifications

ME6000

Display: LCD
Resolution: 14 bits
CMRR: Typ. 110 dB
Channels: 4-16
EMG type: Raw / Averaged / True-RMS / Integrated
Sampling rate: 100/200/1000/2000/5000/10000 Hz / Channel
EMG freq band: 15 - 500 Hz

Data tranfer: USB, WLAN
Memory: CF card 1GB standard (optional up to 2GB)
Power: 4 x 1,5 V (AA/LR6 type) batteries or rechargable batteries
Size: 181 x 85 x 35 mm
Weight: 344g
Triggers: Isolated triggers in/out
Electrodes: Surface, needle, fine wire

Contact us

To order or to get a quote, you can contact us using email mega@megaemg.com or phone +358 17 581 7700. If you are interested in getting more information about our product selection, please visit our website www.megaemg.com

Mega Electronics Ltd

Mega Electronics Ltd is a Finnish medical technology company specialized in biosignal monitoring for neurology, rehabilitation, occupational health and sports medicine since 1983. Company has developed a compact ambulatory technology to detect muscle activity on the skin surface both in laboratory and field conditions.

Finland patent 80201
Finland patent 98045
Europe patent 0749340
U.S. patent 5,881,731
U.S. patent 6,289,894
Japan patent 3320829
Japan patent 3604391
Canada patent
ISO 9001
ISO 13485
U.S. patent 5,361,775
U.S. patent 6,264,582
CE 0537

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