



Advanced EMG monitor WBA

Pioneer of wireless EMG



Multisignal system
Wireless online measurements
Easy connection to external systems
Versatile analysis tools for research

Wireless BioAmplifier (WBA) system is a compact and wireless system for measuring, monitoring and analyzing biosignals like EMG and ECG up to 16 channels. The system is ideal for measuring physiological signals in lab and field conditions.

WBA receiver unit is equipped with analog output which enables connections to motion analysis systems. WBA system is ideal for many different applications and is always delivered with MegaWin PC-software for viewing and analyzing the measured signal.

Pioneer of wireless EMG - Mega was one of the firsts to bring a wireless EMG product, WBA system, to the market. WBA system is ideal for many different applications. Speciality of WBA is the comprehensive compatibility of the system which makes it possible to integrate the system with all widely used motion analysis systems and third party softwares. There are also variety of additional sensors that can be used with the system. This allows wide range of different functions and purposes of use for the system.



Superior flexibility - WBA sensors are small, wireless and lightweight sensors which are easy to fix and very comfortable to wear. The unique design of the sensors enables fast preparations this way allowing superior flexibility for muscle rehabilitation and training. WBA system is ideal for measuring physiological signals in motion analysis labs and in field conditions for scientific research use, sport studies, muscle rehabilitation and training.

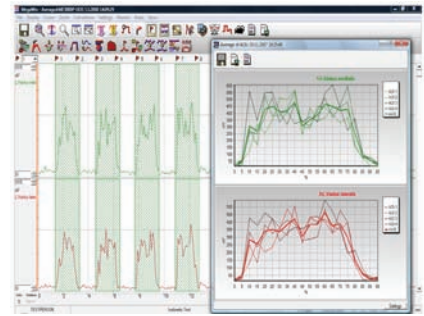
Accurate analyzing - WBA system offers accurate and flexible way to measure physiological signals with sampling frequency up to 1000 Hz. Connection possibilities with different motion analysis systems increases the accuracy and easiness of making the conclusions based on the measured data. Quality of the measured signal is ensured with disposable surface electrodes and high-end technology making WBA one of the best wireless solutions for biosignal measurement.



Advanced analyzing with MegaWin software

MegaWin software offers versatile, 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/nervemaps
- 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 WBA system

WBA system can be used for several different purposes. It is possible to extend the usability of the system and customize it by combining the system with other sensors and modules.

- Goniometers
- Accelerometer
- Foot Switch
- ECG sensor

MegaWin software options

For MegaWin you can also have the following supplementary options:

- 3D anatomy models
- Digital video option up to 4 cameras

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

Technical specifications

WBA sensors:

Sampling rate: 1000 Hz

CMRR: Typ. 104 dB

Channels: up to 16

Sensor freq band: 20-500 Hz (EMG model)

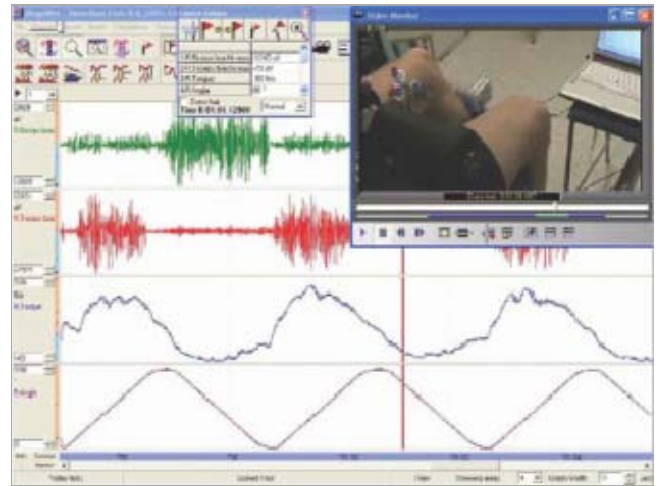
Data transfer: Bluetooth 2.0 EDR

Power: Internal rechargeable batteries

Weight: 16 g / module

Size: 35 x 35 x 15 mm

Electrodes: Lead wires with snap connectors for disposable electrodes



WBA receiver:

D/A conversion: 16 bits

Analog output: Yes, Isolated

Power supply: 100-240 V, Medical Approved (UL60601) power supply

Interfaces: Analog, Bluetooth

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