USB2+
multichannel

HD detection system

Safe storage and transport trolley

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BIO elettronica

EMG-USB2+
multichannel

The EMG-USB2+ is a 256 channel desktop bioelectrical amplifier

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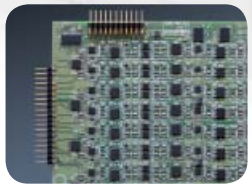
General description

The EMG-USB2+ is a 256 channel desktop bioelectrical amplifier.
It can detect: surface electromyographic signals, intramuscular electromyographic signals and electroencephalographic signals at the same time. The signals acquired by the instrument are amplified, filtered, digitally converted and then transferred to a PC, via an USB2 interface.
OT BioLab, a freeware software designed by OT Bioelettronica, allows to display the signals online, to acquire and process them. Moreover, the data collected by OT BioLab is available on a TCP socket and can be accessed online by different software or different computers running any kind of operative systems.

Our technology



Auxiliary Inputs

Technical specifications

- EMG-USB2+ has a double power supply: internal battery or external 12 V_{DC}. When used in battery mode, in combination with a battery powered laptop, it becomes a completely floating acquisition system ensuring the highest rejection to common mode interferences.

- The EMG-USB2+ is an instrument designed for clinical research and it is a modular system.
It is available in version ranging from 16 to 256 channels.

- EMG-USB2+ allows to acquire 16 additional signals on auxiliary inputs. The signals can be generated by others amplifiers (e.g. force, torque, angle, position or trigger signals) which do not require an optical insulation.

- The EMG-USB2+ is completely safe for the patient. The safety is achieved by means of medical grade electrical insulation of all the circuitry connected to the patient.

Technical data

Class	II BF
Power Supply	Internal 2S-2P lithium-ion cells or external 12V_{DC} – 30W
Battery life	6 ÷ 40 hours depending on version and number of channels
Channels	16 ÷ 256 plus 16 auxiliary inputs
Programmable gains	100, 200, 500, 1000, 2000, 5000, 10000 V/V
Selectable high pass filters	0.3, 10, 100, 200 Hz
Selectable low pass filters	130, 500, 900, 4400 Hz
Sampling frequencies	512, 2048, 5120, 10240 Hz
Resolution	12 bits
Input range	0 ÷ 50 mV_{PP}
Noise	< 4 μV_{RMS}
Input impedance	> 10^{12} Ω

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