Vibromyography

BIOPAC Systems, Inc.

Application Description

BIOPAC provides breakthrough Vibromyography (VMG) technology allowing researchers to capture muscle force data in real time. VMG transducers record vibration data received from microelectromechanical systems (MEMS) sensors and proprietary software. Researchers can then use BIOPAC's world-class MP data acquisition and analysis hardware platforms and powerful and flexible Acq*Knowledge* software for additional analysis.

Advanced Features

- Ability to perform muscle balance assessments
- Improved reproducibilty between muscles and measurements
- Convenient setup
- Reduced setup time
- Improved subject comfort
- And More

Watch Video Tutorials at the BIOPAC Website!

Selected Research Citations Below

Search online for more than 65 BIOPAC citations for Vibromyography

Hand Motion Pattern Recognition Analysis of Forearm Muscle Using MMG Signals

M.R. Mohamed Ismail, et al (2019). Bulletin of Electrical Engineering and Informatics, Vol 8, No 2

Cross-Talk Level of Mechanomyography Signal on Compartmental Forearm Muscle

M.R. Mohamed Ismail, et al (2019). 10th International Conference on Robotics, Vision, Signal Processing, and Power Applications

Cross-Correlation Analysis of Isometric Contraction for Mechanomyography Signals on Forearm Muscle

M.R. Mohamed Ismail, et al (2019). IOP Conference Series: Materials Science and Engineering, Vol 705, No 1

Monitoring Breathing Muscle Performance during Singing Noninvasively Using Mechanomyography and Electromyography

Muhammad Imran Ramli et al (2019). Future Generation Computer Systems, Volume 33, Issue 4

Electrically Evoked Wrist Extensor Muscle Fatigue Throughout Repetitive Motion as Measured by Mechanomyography and Near-Infrared Spectroscopy

Nurul Salwani Mohamed Saadon, et al (2019). Biomedical Engineering / Biomedizinische Technik, Vol 64, Issue 4

Muscle Oxygen Saturation Correlates with Muscle Mechanomyography During Prolonged Electrical Stimulation-Evoked Wrist Extension Exercise

Nurul Salwani Mohamed Saadon, et al (2019). 10th International Conference on Robotics, Vision, Signal Processing and Power Applications

Quadriceps Mechanomyography reflects Muscle Fatigue during Electrical Stimulus-Sustained Standing in Adults with Spinal Cord Injury – A Proof of Concept

Morufu Olusola Ibitoye, et al (2019). Biomedical Engineering / Biomedizinische Technik, Vol 64, Issue 4

Mechanomyography-Based Muscle Fatigue Detection during Electrically Elicited Cycling in Patients with Spinal Cord Injury

Jannatul Naeem, et al (2019). Medical and Biological Engineering and Computing, Vol 57