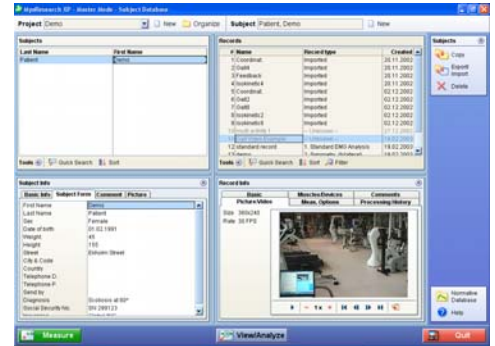


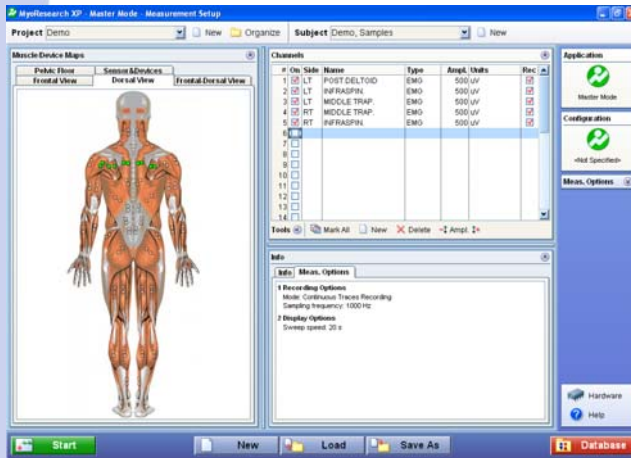
Data Acquisition and Analysis Package for EMG and combined Sensors

- Up to 32 EMG / analog input channels
- Synchronized digital video
- Amplitude and frequency analysis functions
- Signal processing with digital filters
- Period averaging with time normalization
- Innovative XP design and easy handling

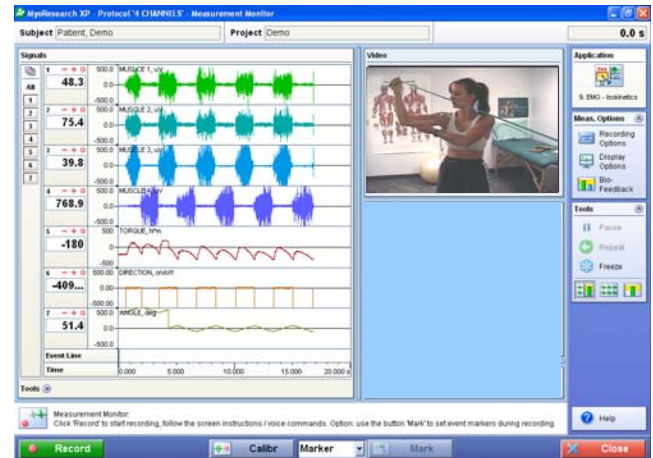


Product Overview

MyoResearch XP Basic is the economic edition of Noraxon's data analysis and acquisition software packages. It is designed to perform basic EMG and sensor investigations. The option to upgrade to MyoResearch XP Master Edition is available at any time. MyoResearch XP Basic Edition is configured with the most commonly used EMG data acquiring, processing and analysis routines. Any combination of up to 32 channels can be freely configured to measure EMG, biomechanical sensors and Noraxon amplifier signals; these configurations can be stored for future use.



Anatomical maps simplify the muscle choice. Any configuration can be stored for continuous use.



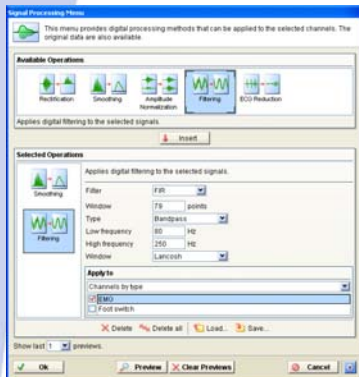
The measurement monitor can display all signal traces in synchronization to digital video

Data Acquiring and Management

The raw data recording can be combined with synchronized digital video recording. Any video camera connected via USB or FireWire interface is supported. The database system is designed for multimedia file management and allows the combined management of data records, videos, pictures and RTF documents (like MS Word). Comprehensive export/import functions are supported for flexibility in data communication between various programs.

Signal Processing Routines

For post hoc processing, numerous signal processing options such as digital filters, MVC-normalization or the unique ECG removing routines are supported. Synchronized digital videos are used to define analysis periods in complex movements. Rescaling, zoom and overlay functions allow for a quick analysis of selected record intervals.



Free to combine signal processing routines with save/load function.

- Full wave rectification
- Smoothing RMS and moving Average
- Filter database: with band-pass, FIR, IIR, Median
- MVC / to mean normalization
- ECG removing



Record viewer with activated video and amplitude histogram. Access to the Record Editor and Signal Processing Menu.

Analysis Reports

MyoResearch XP Basic Edition offers a set of predefined standard reports covering the most commonly used amplitude and frequency calculations. A key feature in the program design is the sophisticated period definition system for analysis period. It can be combined with a trigger to analyze TTL / foot switch, angle or other movement signals. Pre-configured analysis frames can be customized by mouse click. Analyses graphs can be compared to graphs from other records (curve over plot, test and retest comparison, etc.). An integrated normative data menu allows a quick generation of normative databases. Export routines to clipboard (excel, etc.) or as internet compatible HTML document allow an external exchange of findings.

Pre-configured Analysis Reports:

EMG standard amplitude analysis

Peak, min/max value calculation

Frequency/ Fatigue analysis

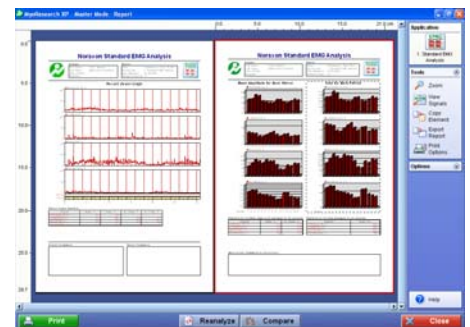
Median, mean frequency and slope calculation

Spectrum report

Total power spectrum and frequency distribution

Average EMG patterns

Time normalized averaged curves



System Requirements

- Processor: Intel Pentium® CoreDuo Processor or Comparable Centrino/Athlon Processor
- Memory: 1 GB RAM (2 GB RAM, if Windows Vista)
- Accelerator Graphics Board with 256 MB RAM
- Hard Drive: 80 GB HDD
- Interface: onboard 2 USB ports and FireWire port
- Windows XP Home/Professional or VISTA
- Microsoft® MGP4 Video Codec V2
- Recommended hardware: Laptops or PCs with multimedia configuration