



WORLD
PRECISION
INSTRUMENTS

*Research products for
wherever science takes you*

WHAT'S NEW AT WPI

NEUROSCIENCE



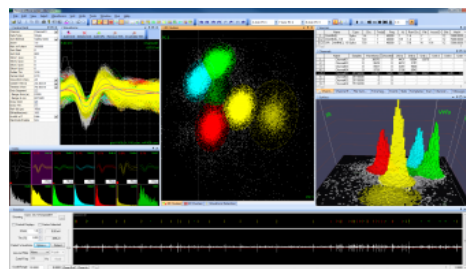
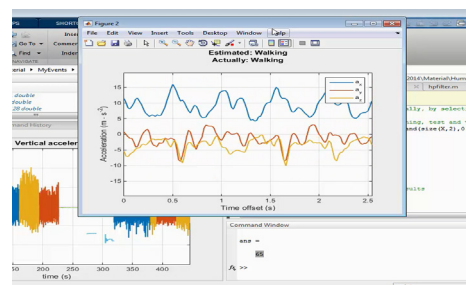
System Neuroscience
Drug Studies
Surgery Monitoring
Advanced Neurophysiology

NeuroPhys I and **NeuroPhys II** are affordable, high-performance data acquisition (DAQ) systems for in vivo, extracellular neurophysiology experiments using up to 32 and 64 electrodes, respectively. The user-friendly software and plug-and-play hardware (only minutes to setup) provide researchers with a sophisticated yet easy-to-use neural DAQ system. Our noise-immune miniature digital headstages are ideally suited to interface with small and large animals, including birds, mice, rats, cats, and non-human primates. Configurations are available for both anesthetized and freely-behaving animal models. A battery-powered option eliminates inadvertent ground loops, which ensures high signal-to-noise recordings even in the most demanding lab environments (high levels of EMF noise).



Benefits

- Compact, lightweight, and portable
- Interface to any electrode type (silicon/laminar probes, MEAs, MWAs)
- Noise immunity
- World's smallest and lightest headstages
- Software-selectable filter type and bandwidth
- Real-time spike sorting
- Up to three signal streams per channel (raw, field potentials, spikes)
- Import data on Spike 2, NeuroExplorer, Offline Sorter and MATLAB/Python
- Auxiliary I/O for synchronizing third-party systems (video, behavioral, stimulation)
- Electrode monitoring during implantation surgeries (**NeuroPhys I**)
- Fast stimulus-artifact recovery (**NeuroPhys II**)



All specifications subject to change.

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