

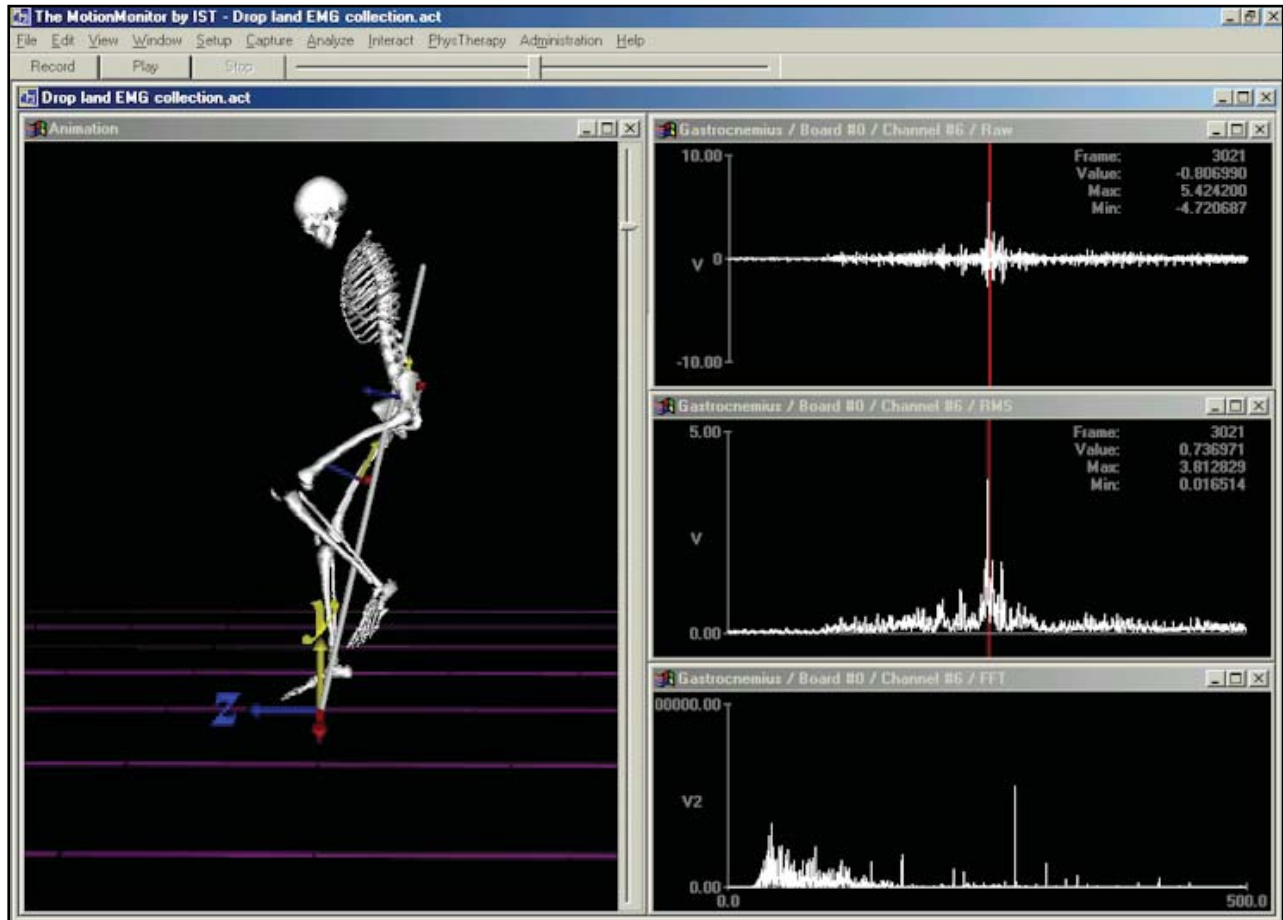


The MotionMonitor base unit shown here with Ascension magnetic trackers, Extended Range Transmitter and Bertec non-conductive forceplates.

the most advanced data acquisition and analysis system in the market place offers precise measurement of human motion for applications in...

Electromyography

- Collect surface or indwelling EMG from Delsys, Noraxon, Motion Lab Systems, or Biopac systems.
- Filter signals with Low Pass, High Pass, and Notch filter settings.
- Use proprietary algorithms to optimize filter settings in the presence of electromagnetic noise.
- Report signals in the frequency domain for analyses involving frequency shifts.
- Rectify and apply a moving RMS to the EMG signal.
- Integrate and synchronize EMG data with forceplate, kinematic, and video data within **The MotionMonitor™**.



Above is an image showing the results of selecting the EMG data in the dialogue window for a landing activity. The graphs display Raw data, RMS, and PSD of the EMG signal for the medial head of the gastrocnemius.



Real time **data** acquisition, analysis, and 3D visualization.
Turnkey **hardware** solutions. Upgradeable as your needs change.
Research Design & System Engineering **consultation**.

The MotionMonitor[™] is a trademark of Innovative Sports Training, Inc.

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