

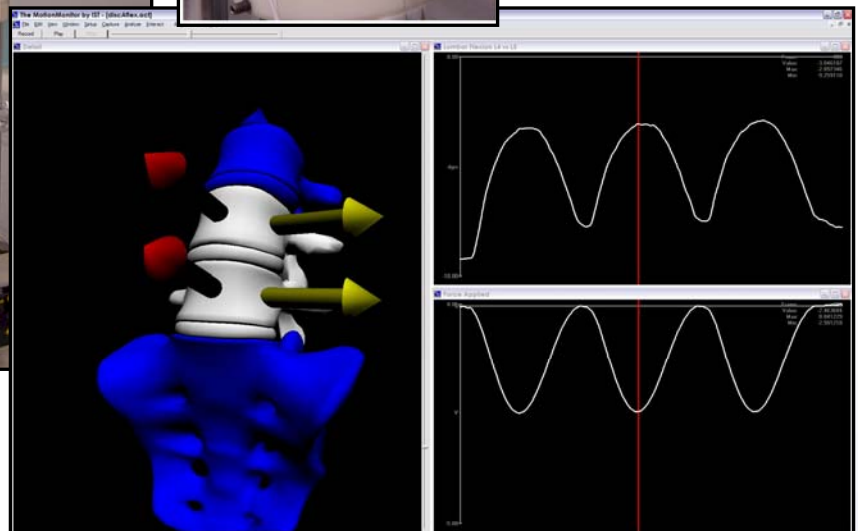
the most advanced data acquisition and analysis system in the market place offers precise measurement of human motion for applications in...

In-Vitro Orthopaedic Research

- ❑ Define world and local segment coordinate systems consistent with your needs.
- ❑ Instrument multi-segment cadaver specimens to track virtual joint centers, insertion points and other landmarks.
- ❑ Track forces applied by MTS and Instron Machines or loads applied to ligaments together with resultant segment motions.
- ❑ Analyze segment motions pre and post surgical interventions.
- ❑ Register CT/MRI scans of bone surfaces or use The MotionMonitor Mesh Generator to digitize disarticulated bone geometry. Create wire frames or mesh files.
- ❑ Play back the activity to animate the mesh files in the detail window to observe the interaction of bone surfaces.
- ❑ Export mesh file, kinematic and kinetic data to popular Finite Element Modeling software.



Here a "sawbone" spine specimen is instrumented with Ascension MiniBirds. The world axes and two vertebral bodies' local coordinate axes are then defined by a digitizing process. The MTS applies forces to the specimen. The MotionMonitor synchronously captures, processes and plays back the activity in real time.



The Motion Monitor
...The Total Solution in Motion Capture®

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.

*Innovative Sports Training, Inc. • 3711 North Ravenswood Avenue • Chicago, Illinois 60613 USA
www.innsport.com • Telephone: 773.244.6470 • email: support@innsport.com*