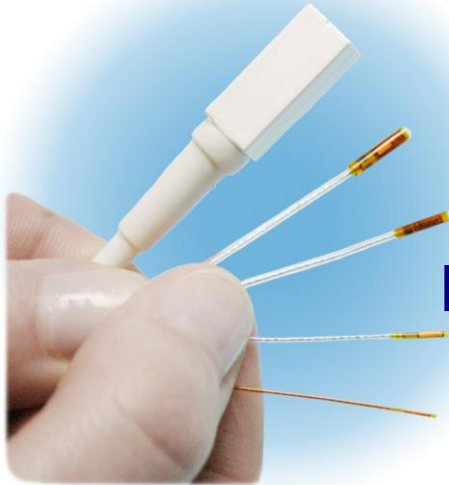




## PRESS RELEASE

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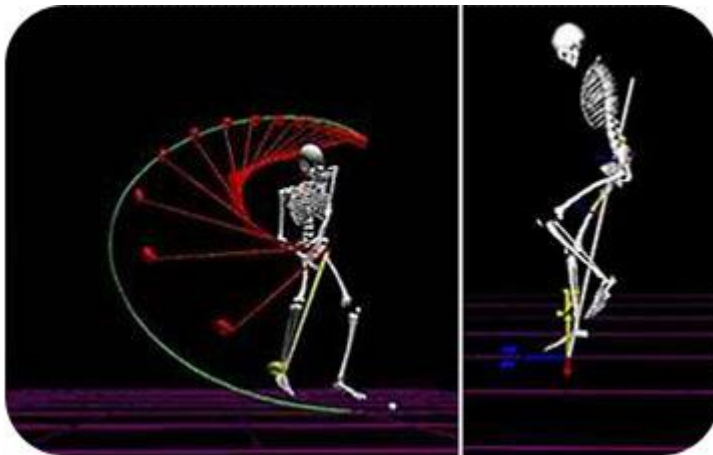
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# Perfecting the Science of Motion: Ascension Trackers Help Analyze Body Movement

## 3D Tracking Key to Success of Chicago-based IST's *MotionMonitor*

**Burlington, VT (April 28, 2011)** – Ascension's motion trackers are helping researchers in the U.S. and abroad measure complex body movements – informing everything from sports medicine treatments to golf swings to proper lifting techniques.



The *MotionMonitor*®-- a real-time 3D motion capture and analysis system created by Chicago-based Innovative Sports Training (IST) -- uses magnetic and optical sensors to gather data for analyzing complex motions. The real-time tracking is especially useful for studies of shoulder movement and motor control, as well as biofeedback for rehabilitation and in-vitro studies.

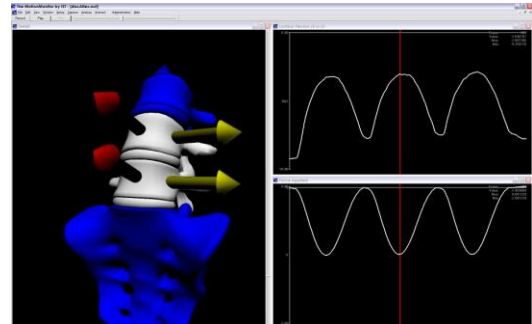
*MotionMonitor* is a turn-key system for researchers, capable of synchronously collecting data from multiple sources,

including Ascension trackers, electromyography (EMG), force plates, eye trackers, video, event markers and other analog devices for applications in research, sports and PT clinics.

"We like Ascension trackers because they are an affordable and user-friendly way to capture and analyze motions," said Mona Bhuta, Director of Research Markets at IST. Its clients include a long list of internationally recognized universities and research facilities, such as Mayo Clinic and Rush University Medical Center.

The relationship between Ascension and IST dates back to 1993 when both companies first entered the biomechanics market. Today the integration of IST's software with multiple sensors is the foundation for the most comprehensive data-collection and analysis system in the marketplace, Bhuta said. Ascension, for its part, has become one of the leading suppliers of 3D tracking devices worldwide.

Depending on the *MotionMonitor* application, Ascension supplies *trakSTAR*, *Flock of Birds*, *MotionSTAR* or *driveBAY* trackers to IST. The miniaturization of magnetic sensors facilitates unobtrusive studies of human motions with minimal set-up requirements. Typical studies include targeted body parts: the spine, shoulder, upper arm, thorax and scapula. Because the sensors not need maintain a clear line of sight back to their magnetic field transmitter, they are often specified for close-in applications in which motions are often blocked or covered.



**A model spine specimen, left, is instrumented with miniaturized Ascension sensors. The axes are then defined through a digitizing process. Mechanical test equipment is next instrumented to apply forces to the specimen. IST's *MotionMonitor* synchronously captures, processes and plays back the activity in real time to study the effects of forces on anatomy.**

*Motion Monitor's* short learning curve is beneficial to students and researchers, who can rapidly master the use of the hardware and focus on research and analysis, Bhuta said. "This allows researchers and laboratories to now offer the resources to conduct research, as well as encourage independent student research, in a timely manner."

## About Ascension

Ascension Technology Corporation is a professional 3D tracking company specializing in navigation and guidance of miniaturized sensors and markers for use in biomechanical analysis, real-time visualization, and medical treatment. Its optical and magnetic tracking devices are used extensively for tracking the real-time position and orientation of objects moving in free space. For more information, visit <http://www.ascension-tech.com>

## About IST

IST designs, manufactures and sells advanced data acquisition, analysis, and visualization systems for precise measurement of human motions. Its interactive training systems are often specified for performance enhancement in sports, clinical rehabilitation, and industrial training. It is committed to producing products thoroughly grounded in science, resulting in the development of outstanding research tools for the biomechanical community. For more information, visit <http://www.innsport.com>

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