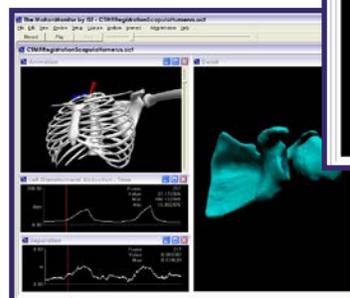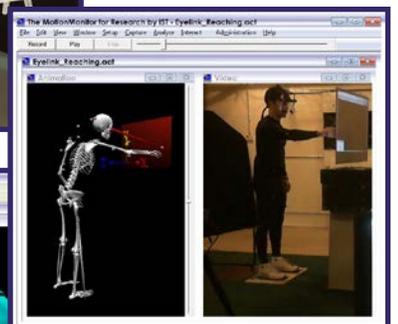# The Motion Monitor

...The Total Solution in Motion Capture ®

The MotionMonitor ™ is a turn-key 3-D motion capture system designed to synchronously collect data from kinematic trackers, EMG, force plates, hand transducers, EEG, video, event markers and other analog devices, virtual reality, and haptic devices. Data generated from a rich collection of analytical tools are immediately available for playback with graphical displays of all data outputs. Stunning 3-D computer-rendered animations of the subject can be viewed as a skeleton, stick figure, or humanoid. Real-time measurement of the human body's movement, brain activity, eye movement, muscle recruitment, and external forces acting on the body is achieved using the broadest range of hardware available in the market.

With *The MotionMonitor* you can….

- **Customize a total solution to ensure you achieve your research goals**… *The MotionMonitor* provides unparalleled support and consultation to help you determine which technology and configuration is optimal for your unique needs.

- **Include your preferred technology or work with our engineers to identify an optimal technology**… *The MotionMonitor* is a real-time biomechanics software solution with support for over 14 different kinematic tracking technologies.

- **Reduce your operating costs and focus on your research, versus writing, modifying, debugging and maintaining code**… *The MotionMonitor* facilitates your setup, model definition, data collection, data analysis, protocol setup and export processes with no scripting or programming efforts.

- **Diversify your lab or group's research applications**… *The MotionMonitor* supports a range of applications, from standard kinematic analysis to eye-tracking to CT/MRI registration to VR/Biofeedback.

- **Invest in a system which can grow and expand as your research evolves or budget allows**… *The MotionMonitor* delivers a seamlessly upgradeable system.

- **Avoid the hassles of dealing with multiple vendors for support…** A single call to *The MotionMonitor* support team will address both hardware and software related issues.

Supported and Integrated Hardware Systems in *The MotionMonitor*

- Ascension's trakSTAR
- Polhemus' Fastrak, Patriot, Liberty and G4
- Motion Analysis Corp's Hawk, Eagle, Osprey and Kestrel Cameras
- Qualisys' Oqus, and Miqus Cameras
- VICON's Vero, Bonita, Vantage, T-Series, and MX cameras
- Natural Point's Optitrak Flex and Prime cameras
- PhaseSpace's Impulse and Impulse2
- Phoenix Technologies Incorporated's Visualeyez system
- Northern Digital's Optotrak 3020 and Certus
- Metria Innovation's MPT moiré-phase tracking system
- Inertial Measurement Units (Xsens, Delsys, APDM, InterSense)
- Bertec, AMTI and Kistler force plates
- Bertec and AMTI instrumented stairs
- Bertec Instrumented Treadmill, providing real-time dynamic control of the treadmill
- ATI, AMTI and Bertec mini-load cells
- Noraxon DTS and Delsys Trigno EMG via digital (USB) integration
- All analog EMG systems
- Eyelink II eye tracking system
- BioSemi's ActiveTwo system
- MindMedia's NeXus-32 qEEG system
- ANT Neuro eego™ sports EEG system
- Phantom Haptic devices
- Virtual Reality Displays (rear-projection, immersive or head-mounted)

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