



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

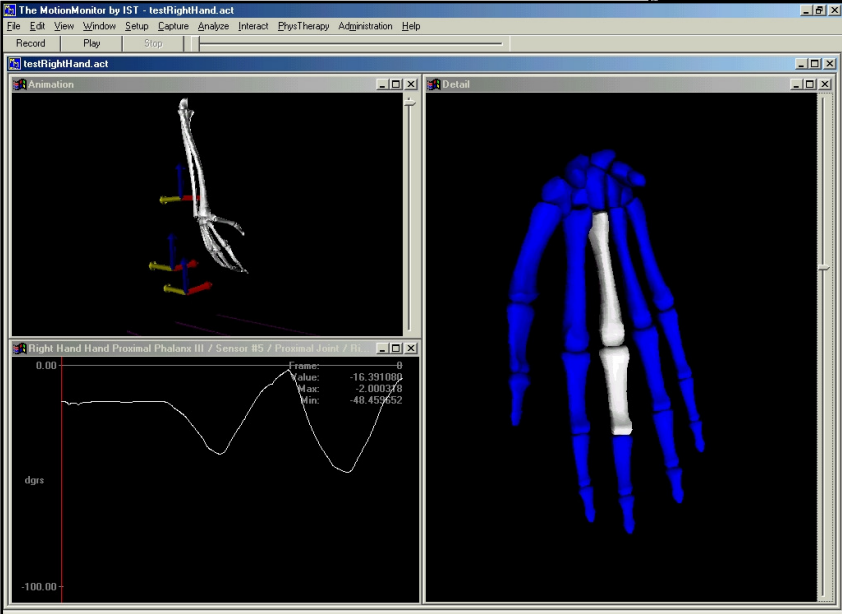
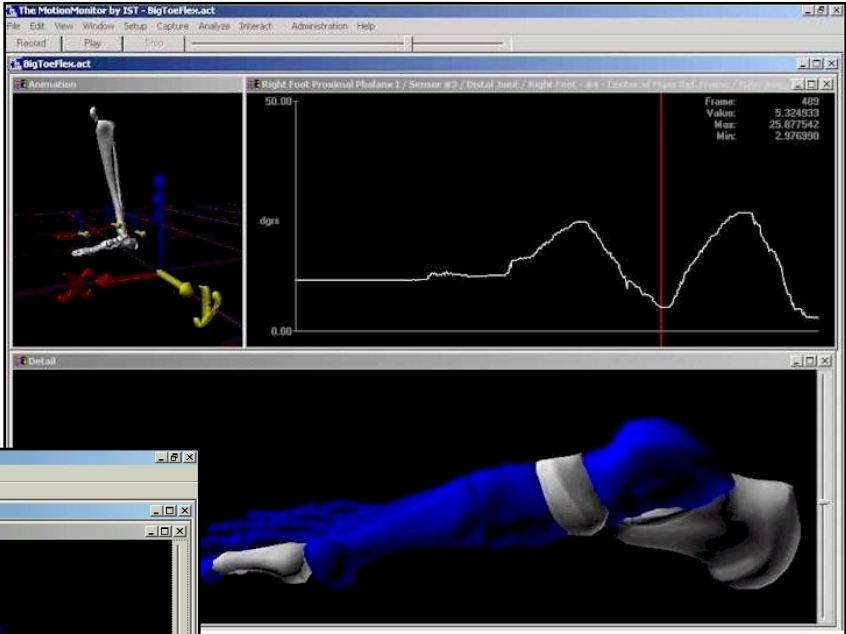
the most advanced data acquisition and analysis system in the market place offers precise measurement of human motion for applications in...

Hand and Foot Mechanics

- Digitize anatomical landmarks to define the dimensions of each hand or foot bone.
- Look at relative carpal, metacarpal, and phalanx bone movements or movements relative to a proximal segment such as the forearm or shank.
- Use defined protocols, such as the ISB recommendations, to assign specific axes layouts and Euler angles sequences. Alternatively, use default axes for quick setup in a clinical setting.

To the right, three sensors attached to the hallux, navicular bone, and calcaneus are depicted by the smaller coordinate axes.

The data window displays a graph of the Euler rotation about the Y axis of the hallux. It is being displayed in the reference frame of the navicular bone and represents flexion of the hallux relative to the mid-foot.



To the left, a similar display is depicted for the hand detail. Here the third proximal phalanx is being tracked relative to the third metacarpal. Flexion of the third proximal phalanx relative to the third metacarpal is displayed in the data window on the left.



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