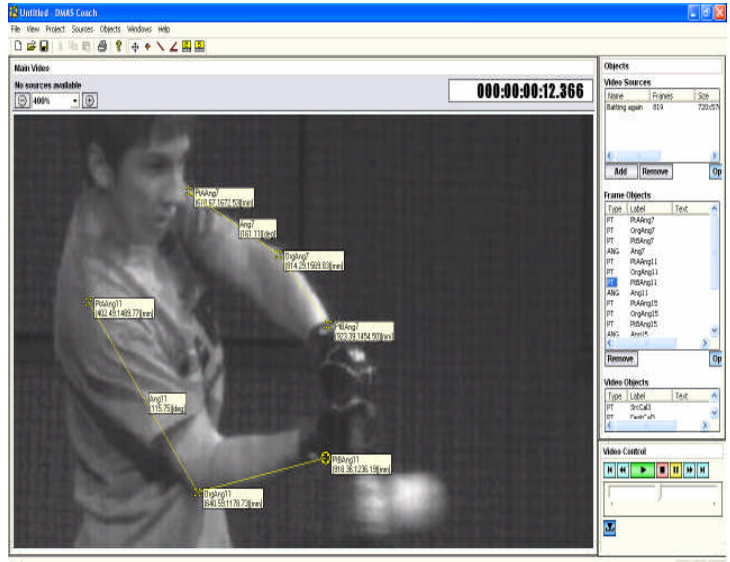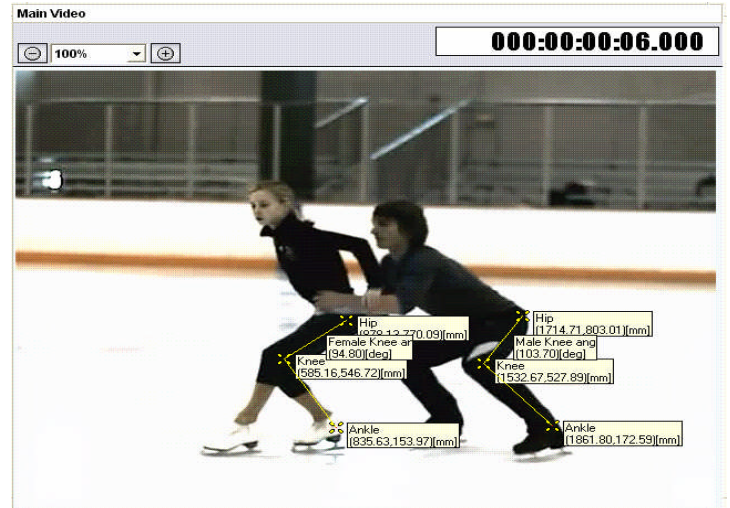# DMAS Coach

Motion Imaging Corporation introduces the simple to use coaching tool !

DMAS—*Coach* is designed for the times when a quick analysis of basic biomechanical data is needed. *Coach* was created to gather video and simply click on specific frames to determine angular values for anything in view. *Coach* provides the means to get displacement data and angular data by simply clicking on the image. Data such as step distance, jump height, and angle of release is given in a few simple clicks. *Coach* also provides the means to synchronously compare two videos and the related data so the user can see how much correction has been achieved.

Coach is the ultimate tool when it comes to allowing the athlete to quickly visualize specific actions. A picture is worth a thousand words. This is definitely the case when coaching comes into place. *Coach* enables quick and accurate coach-to-player communication in a way that cannot often be verbalized. Comparison of pre and post corrections allow the athlete's movements to be compared visually as well as quantitatively.

For more products and additional information please visit our website or contact us at:

Motion Imaging Corporation

15 McCoy Place

Simi Valley, CA 93065-2900

Tel: (805) 577-0463

sales@mi-as.com

www.mi-as.com

Motion Imaging Corporation Products

2-D Products—We have a large range of products available for 2 D analysis. Our most basic package is DMAS-Coach. DMAS Coach allows the user to draw on the screen and get distance measurements as well has angles from a specific frame or frames. All data is exported in a simple to read format that allows for comprehensive reports to be created. DMAS Coach allows for simple synchronized video comparisons of the same object or between subjects for an easy comparison of "before and after" scenarios.

DMAS-6 2D can be used to import avi's or capture live for manual and/or automatic tracking of retro-reflective markers. DMAS 6 utilizes state of the art technology to rapidly and accurately track markers creating a comprehensive and customizable report. Markers are automatically digitized by identifying them in a single frame only. Data such as displacements, angles, velocities, and accelerations are readily displayed in the reporter in graphical format along with the stick figure and video. All data is easily exported in a .csv format. All DMAS 6 products can be configured to synchronously collect analog data such as force plates and EMG.

Movias 2-D is used to manually or automatically track imported avi files especially when utilizing high speed cameras. Movias tracks quadrant markers, light markers, dark markers and shapes. Movias provides a robust means to track 2 D data in and outside of laboratory settings. Data such as displacements, angles, velocities, accelerations, area, power etc can easily be displayed in a table or graphically played synchronously with the imported video.. All data is readily exported in a .csv format read by excel and other programs.

3 D Products—DMAS 6 3D provides the capability of multiple camera capture and control. Cameras capture the video from all cameras whether the tracking is automatic or in real time. Providing the video from each camera view allows a more thorough review of all captures. DMAS 6 is extremely robust allowing for customization through internal scripting or utilizing the C++ SDK. All captures can be synchronized with analog/digital data from any number of devices such as strain gauges, force plates, or EMG. Real time is a true 6 DOF and automatically finds all markers without ever having to identify even a single frame. Customized reports are generated and easily exported in a variety of formats including C3D. DMAS 6 3D leads the way in video capture and data output in real time. Calibration for the system can be done either utilizing a static frame or dynamically. DMAS 6 allows for a variety of cameras with frame rates from 30 to 1000 or more fps with varying resolutions to be utilized, making the system capable of being used for a myriad of possibilities.

Equine and Canine Lameness—Motion Imaging Corporation introduces the new motion tracking software specifically designed to aid in the evaluation and assessment of gait in horses and dogs. MIC, in partnership with prominent DVMs, has created a plug and play system to be used by veterinarians in the field or at the office. The system consists of a camera and laptop computer with intuitive software allowing for the acquisition of video data with a rapid output of a comprehensive right side versus left side comparison reports. Utilizing a specific set up of markers the DVM can quickly have quantitative values used in assessing gait, printed into a report in a matter of minutes. Examples of some of the common data output are: angular displacements for the shoulder, elbow, fetlocks, hip, stifle, and hock. From this data, findings such as equine stride results and potential lameness detection can be determined.

Eye Tracking—Motion Imaging Corporation offers the latest in eye tracking and motion measurement systems from NAC Image Technology. Available in either head-mounted or contact-free devices, our systems employ the pupil/corneal reflection process. This technology utilizes sub-pixel rendering to enable precise measurement of the subject's line of vision, while virtually eliminating errors due to faulty installation. Our Head mounted systems can track single or both eyes and come in either goggle or hat mounted configurations. We utilize d-factory software that allows for comprehensive analysis of pupil diameter and convergence angle analysis providing visual data with tabular or graphical representations.

High Speed Cameras—Motion Imaging Corporation offers a variety of cameras for capturing data with our DMAS 6 software. We also offer cameras by NAC Image Technology which provide a wide range of products to meet the most demanding and unique imaging needs in a variety of applications, including: Automotive Test Market; Aerospace; Manufacturing and Production; Range and Ballistics; Research, Design and Test; Transportation Test Market; and Entertainment and Broadcasting media. NAC products offer the most light sensitivity, the best image quality, the largest memory capacities, the smallest camera heads, the fastest download times and the most inclusive software packages in the industry.

New Products Coming—Motion Imaging Corporation believes in staying abreast of all the latest developments becoming available. We are constantly updating our lines of products to provide the customer with the latest technological innovations allowing for the best way to collect data. To see our latest offerings visit our website www.mi-as.com often and see all the new products as they arrive to market.