



The most advanced data acquisition and analysis system in the market offers precise measurement of human motion for applications using Motion Analysis Corporation Cameras

## The MotionMonitor™ with MAC Cameras

The MotionMonitor is a totally integrated real-time data collection, analysis and 3D visualization system that will enhance your experience with Motion Analysis cameras:

- ❑ Speed system setup and shorten learning curves with a complete **Turn-Key System**
- ❑ Simplify acquisition with **synchronous data collection** from markers, force plates, EMG, eye trackers, video and other analogue data.
- ❑ Generate all kinematic and kinetic data including **joint forces and moments** using extremely powerful but intuitive, drop down menus.
- ❑ Define new variables in real-time using standard mathematical notation **without the need for programming skills.**
- ❑ Use sophisticated **Data Reduction Functions** to automate event marking, normalization, and ensemble averaging of data.
- ❑ Enhance productivity with support for specific applications in:
  - Gait & Balance
  - Motor Control,
  - ISB Shoulder Protocol,
  - In-vitro Research,
  - Biofeedback,
  - Neuroscience,
  - Eye Tracking for 3D Gaze,
  - Virtual Reality,
  - CT-MRI Registrations,
  - Sports Performance Enhancement.

Running-Cut Activity

Cycling Activity



...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.**

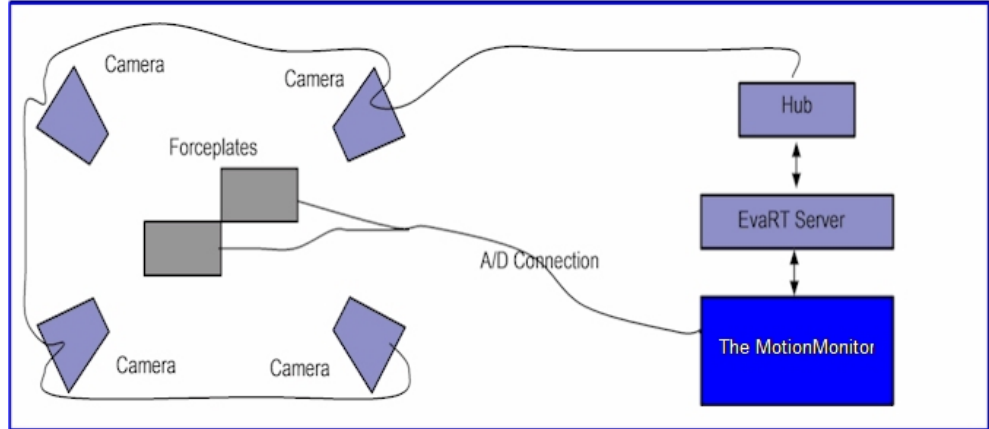
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## Configuration Alternatives

The basic connection of a MAC camera system with The MotionMonitor is depicted in the diagram below.

Cameras receive power and communicate through a Hub. The Hub is connected to the EvaRT server by Ethernet. The EvaRT server connects to The MotionMonitor by external Ethernet if they are running on two computers or internal Ethernet if they are running on one computer.



Peripherals and Analog Devices such as forceplates and EMG connect to The MotionMonitor's A/D Option.

### **New User...I Need The Works!**

There are several configurations including laptops, desktops, and rack mounted. The most convenient configuration includes a shock-mounted rack on casters which is suitable for shipping. The rack, measuring 23" x23" x23", and houses The MotionMonitor base Unit, Hub and AD Interface Panels in one unit for easy transport within or between labs. The system shown here includes 4 camera Eagle integrated with Eyalink II and RunTech EMG system.



### **Adding The MotionMonitor to an Existing MAC System**



As an experienced MAC user, you have the basic hardware in place. Connecting the computer now running EvaRT (the EvaRT Server) to The MotionMonitor computer is all that is required. It is easy to do and we will even do it for you during your training session.

### **Adding MAC to an Existing MotionMonitor System**

As an existing user of **The MotionMonitor**, your system is seamlessly upgradeable. Just add EvaRT software and Hub to your rack, connect by Ethernet to your base unit and you are good to go!

