

Eagle Digital RealTime System

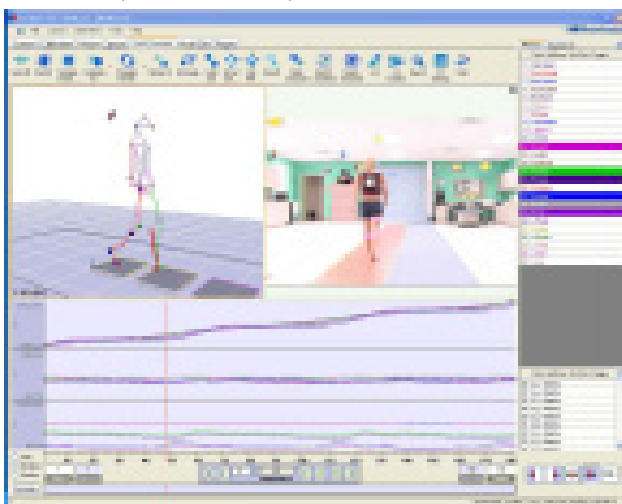
The Eagle Digital RealTime System consists of Eagle-4 Digital Cameras and Cortex software, which captures complex motion with extreme accuracy. Real-time capabilities allow our customers to see capture results at the same instant as the subject is performing a specific task. The Eagle can be mixed with other Motion Analysis digital cameras to optimize your capabilities.

Eagle Digital Camera

The Eagle Digital Camera, with a resolution of 1.3 million pixels at 1280 x 1024 full resolution at up to 500 frames per second, 1280 x 512 at 1000 frames per second, 1280 x 256 at 2000 frames per second, and a processing rate of 600 million pixels per second, revolutionizes the motion capture industry with its extreme resolution, unprecedented high frame rate, upgradeable functionality, and ease of use.

With today's motion capture facilities demanding multiple person capture within increasing volumes, the stability of the signal becomes critical. The Eagle Digital Camera signal goes directly to the tracking computer via an Ethernet connection. The signal processing is embedded in the camera. This streamlined system of motion capture from camera to computer means less hardware and less potential for equipment problems. The FPGA (field programmable field array) built into the Eagle is software and firmware upgradeable via the Internet - you don't even have to take the cameras down.

The Eagle Digital Camera has a larger sensor area than standard video cameras. The corresponding use of a high quality 35mm lens allows for the sweet spot of the lens to map over this larger image sensor area, resulting in greater lens and system accuracy.



Features

- 1-500 Hz selectable frame rates at full resolution
- Portable - up to 8 cameras in two suitcases
- Built-in zoom provides more visual options for ease of set-up
- Separate zoom, iris and focus settings independent of ringlight
- Available with visible red, near red, or infrared ringlights
- LED display panel for camera identification and status
- 237 LED's for brighter and better light uniformity
- Strobed ringlight with camera body heat sink
- Four body mount points on camera for variable positioning
- Software controlled adjustable light output

Cortex

Cortex software provides a user with a simple and powerful interface. Under a single software environment you can set up, calibrate, capture motion in real-time, capture motion for post processing, edit and save data in the format of your choice.

Integration

- Fully compatible with Cortex software
- Standard TCP/IP Protocol
- 128 channels of synchronized 16-bit analog data acquisition (forceplate and EMG data)
- Exportable to all major animation software packages