

Stage Productions

Motion Analysis Corporation has been used in recent dance performances involving the real-time capture of dancers onstage who are simultaneously driving an animation based on that movement.

The results are a powerful interaction of the dancer with the dance and a visual statement unlike any other live performance.

Merce Cunningham, Bill T. Jones and Trisha Brown are just some of the artists who have performed onstage with motion capture by Motion Analysis.

Typical System Configuration

STAGE PRODUCTIONS SYSTEM

- 16-24 Raptor-4, Eagle-4, or Eagle cameras
- Cortex
- Calcium
- SoNIC
- Talon Plug-ins
- Animation Plug-ins

Choosing the correct camera and number of cameras for your motion capture system is dependent on various factors including:

- Size of capture area
- Size of physical room
- Complexity of movement
- Speed of movement
- Current and future needs

Your Motion Analysis account representative will work with you to determine the best system configuration. Our systems integrate fully with many hardware and software solutions. Customers have full access to an SDK in order to develop their own software interfaces.

Recommended Cameras

Raptor-4 Digital Camera

- Resolution of 4 million pixels
- 1-200 Hz selectable frame rates
- Can process up to 5,000 markers in greyscale
- High quality 35mm lenses for low optical distortion
- Built-in zoom provides more visual options
- 237 LED's for brighter and better light uniformity
- Software controlled adjustable light output

Eagle-4 Digital Camera

- Resolution of 4 million pixels
- 1-200 Hz selectable frame rates
- High quality 35mm lenses for low optical distortion
- Built-in zoom provides more visual options
- 237 LED's for brighter and better light uniformity
- Software controlled adjustable light output

Eagle Digital Camera

- Resolution of 1.3 million pixels
- 1-500 Hz selectable frame rates
- High quality 35mm lenses for low optical distortion
- Built-in zoom provides more visual options
- 237 LED's for brighter and better light uniformity
- Software controlled adjustable light output

Recommended Software

Cortex - our core motion capture software comprises tracking, editing, scripting and modeling functions in a *single integrated package*.

Calcium- a powerful skeletal creation, setup, and motion solving solution. It is an easy to use tool to solve captured marker data onto a skeleton.

SoNIC -is a distributed computing manager to spread computations for any number of skeletons over as many client computers as are available.

Talon Plug-ins -stream high quality data into Maya, 3ds Max, MotionBuilder, and Softimage XSI.

Animation Plug-ins --post process data into Maya, 3ds Max, MotionBuilder, and Softimage XSI.