MOTION ANALYSIS
POWERED BY CORTEX™

Movement Analysis

Powerful, flexible technology for superior movement analysis

BEIJING SPORT UNIVERSITY · BROOKS · ASMI · Stanford University · SHRISS · Sheffield Hallam University · MASSACHUSETTS INSTITUTE OF TECHNOLOGY · UNIVERSITY OF LINCOLN · HARVARD UNIVERSITY

Create world-class biomechanics and movement analysis facilities

Motion Analysis offers customizable motion capture technology with a powerful range of features and tools to meet your unique movement analysis needs.

Our fully integrated motion capture and analysis software, Cortex, allows users in various industries such as sports, academia, and animation to capture, process, measure, and report movement data. Whatever the application, you are guaranteed precise data collection instantly.

Powered by Cortex

At Motion Analysis, we continually develop new ways to make motion capture and tracking more efficient. We recently released Cortex 8 – the latest edition of our internationally recognized software. It includes a number of features that set it apart as one of the most advanced mocap software solutions available.

"I am a long-time user of Motion Analysis systems. I like that their solutions have a long lifespan, this allows us to easily add new cameras to the mix as we expand the lab. I also appreciate the robustness of the software, which allows me to customize tests and set up things the way I prefer."

Robert Catena
Assistant Professor of Kinesiology, Washington State University

Key features

- Enables researchers in neuroscience, sports performance, robotics, and other applications to create 3D recordings and measure subjects' movements.
- Allows you to capture and track subtle movements of sports equipment, individuals, and entire teams, improving and extending the limits of athletic performance.
- Offers unparalleled quality, speed, and usability.

- Enables a significantly larger amount of data to be collected compared to traditional techniques, reducing overall lab time and data processing.
- Allows you to collect more precise movement analysis data faster, increasing efficiency and profitability.
- Compatible with different hardware, whether you're using our ultimate performance Raptor 12HS cameras, any of our Kestrel cameras, or a mix of these.

Embedded modules

- **Skeleton Builder** – A powerful tool for defining skeleton hierarchies with precisely defined-joint centers.
- **BioFeedTrak** – A versatile tool that takes live data collected by Cortex and provides multimedia feedback based on predefined values.
- **KinTools RT** – The industry's only self-contained full-body kinetics and kinematics measurement package and custom model creation tool.

- **Motion Composer** – A tool used to gather, integrate, and present interactive motion capture data.
- **DV Reference** – Software for the capture and play-back of reference video data from either stationary or moving DV cameras.
- **Presentation Graphs** – A tool used for creating customized graphs for the visualization of data, to be used in reports and subject feedback.

Integration

Our software integrates with a wide range of third-party devices including AMTI Force Platforms, Delsys EMG systems, Kistler Force Platforms, National Instruments (M, MX, and C-Series devices), Tec Gihan Digital Platforms, Tobii Pro 2 Glasses, Basler GigE cameras, and Flir (Point Grey) cameras.

About Motion Analysis

We have been the international industry leader in motion capture technology for over 35 years. Founded in Santa Rosa in 1982, we quickly established ourselves as an innovative force in the motion capture world. Since our company was formed, we've worked closely with renowned specialists to create continuously cutting-edge hardware and software solutions for a wide range of industries including video game design, studio broadcasting, AR, VR, medical biomechanics, product development, robotics, and ergonomics.

In 2008, we released Cortex, our robust motion tracking and editing software which provides the most complete set of visualization tools in the industry. Cortex has since become our standout innovation, and is used at hundreds of sites around the world to capture, process, measure, and produce reliable data. Our constant product development ensures that our motion capture solutions remain the most accurate and advanced that the industry has to offer.

Visit our website to learn more