

Stage™

organic motion

Redefining motion capture for the animation
& entertainment industries

Movement without Limits



Introducing Stage™ by Organic Motion™

There is nothing to wear,
nothing to attach.

No need to change clothing,
calibrate flashing dots,
worry about marker occlusion,
or plan out elaborate
production pipelines.

Just come as you are.



Get ready for the mind bending
motion capture of Stage.

Motion capture that dramatically
reduces the time and cost to
produce world-class 3D content.

Motion capture that enhances
animators' creativity like
never before.

Within seconds, Stage views, calibrates, captures, and streams squeaky clean production-ready motion data directly into your favorite animation software. Stage is so advanced that it's transparent to the creation process. Animators can be artists, not data-cleaning technicians.

Stage ignites a whole new realm of content creation – now you can generate instantly clean data for the most complex motions, create real-time story boards, even photo realistic avatars, and many other unprecedented animation creations.

Unlike all other mo-cap systems, Stage tracks the entire human body naturally, instantly generating the most comprehensive motion data, 3D models and textures.

Stage is an advanced optical tracking system that sees humans the way humans see each other. With its high level of cognition and artificial intelligence, Stage understands the movement it sees rather than simply connecting the "dots" like all other conventional mo-cap systems.

Stage lets your team focus on content creation and delivery, not technology. Animators have the ultimate sketch pad. Actors are untethered. Production schedules breathe a sigh of relief.

All clean. All real life. All real-time. Faster than a human can move. Pure. Enabling.

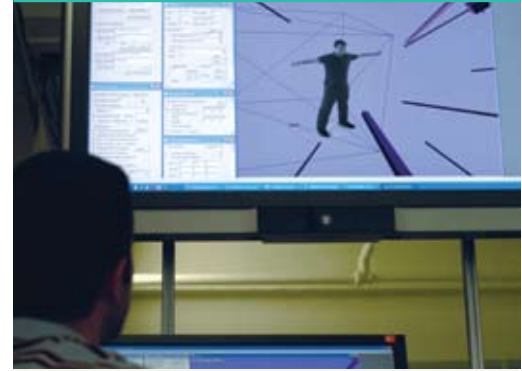
The days of spandex suits are over.



Stage is a complete motion capture solution that radically improves the process of 3D content creation.



High speed Organic Motion cameras act as the eyes of this groundbreaking computer vision system.



Real-time on-screen rendering of comprehensive 3D data, including 3D mesh and texture information.

“Doing away with the trademark spandex suit and ping-pong balls in favor of a come as you are approach.”

Engadget

“Organic Motion’s combination of cognitive predictive tracking and computer vision allows the actor to do almost anything on screen and maintain a clean result.”

FXGuide

“Organic Motion reveals better way to Mo-Cap.”

Game Daily

“The possibilities for game developers... are tremendous.”

Gamasutra

“Cheaper, cleaner and immediately usable animation data—what’s not to like here?”

Newsweek.com

“Organic Motion’s technology improves every step of the animation process.”

VFXWorld

“Game developers checking out a demo of Organic Motion’s technology have been thrilled with the results, and the price.”

Macworld

Motion capture the human way.

Motion capture the way it should be.

Radically simplifying the process.

Radically improving the results.

10 Reasons to Love Stage

- 01 Everything needed to create your own advanced motion capture studio
- 02 Come as you are – no body suit or markers ever
- 03 Auto-calibrates in seconds to each actor/subject
- 04 Generates instantly pure, stunning real-time 3D data
- 05 Also functions as a real-time 3D scanner producing 3D mesh and textures
- 06 Dramatic reduction of time and cost to create production-ready data
- 07 Flows real-time into Autodesk® MotionBuilder™ and other leading animation packages
- 08 Operates without a technician, further reducing operating costs
- 09 Strong upgrade path to multiple actors and exact finger tracking
- 10 Brilliant motion capture sessions from calibration to capture to clean data in minutes

Stage™ System 1.0

November 2007 Release

Redefining motion capture for the animation & entertainment industries

System Description subject to change
Release version defined in End User License Agreement

Scanning

- Scan Space - 4m x 4m x 2.5m;
12ft x 12ft x 7.5ft
- 60-120 fps, Real Time with 25-100ms latency
- XYZ Positional Accuracy (arms, legs) up to 1.0mm
- Rotational Accuracy (arms, legs other than along axis) up to 1°
- Rotational Accuracy (along axis) up to 2° (along axis)
- Bones: 21 bones - 6 degrees of freedom each
- Tracks one Actor (Two Actor expansion Module available 2008)
- Prop Tracking via a substitute prop included (Upgrade in 2008)
- Designed for indoor use in typical artificial and/or natural lighting

Equipment

- Vision Processor
- 10 Cameras: 120 fps, gray scale
- Resolution equivalent to 2 mega pixel of marker-based system, high speed NTSC actual
- Cameras can synch and genlock with external timecode at 120fps and slower
- Scalable Scaffolding and reflective cloth to create scan space
- All connection cables

Software

- Animation Plug-in: flows data real-time into the Autodesk leading real-time character animation application, Autodesk MotionBuilder
- Software Development Kit (SDK) available
- Two Actor and Finger Tracking Modules (early 2008)
- Prop Tracking Upgrade – Prop is tracked by applying pattern (early 2008)

Output Format

- Supported through Autodesk MotionBuilder and SDK; inquire for specific formats
- 3D mesh variable from 500 to 8,000 triangles
- Surface texture via video

Calibration

- Lens Calibration: lens distortion is pre-calibrated prior to shipping
- System Calibration: On site in under 3 minutes - via a pattern board (provided)
- Actor Calibration: On site in under 1 minute - Stage auto-learns after first 'acquisition' of Actor

Organic Motion, Inc. is a leading innovator of computer vision and motion capture systems. The company is headquartered in New York City. Organic Motion's Stage™, BioStage™, and OpenStage™ systems radically enhance motion capture and analysis for the life sciences, the entertainment industry, and for customized retail motion applications.

Contact Organic Motion directly to learn more about how Stage could expand your creativity to unheard of new levels while reducing your production costs and delivery times dramatically.

To test drive Stage call our headquarters 212-776-6100.
Visit our website www.organicmotion.com