

OpenStage®

organic motion

Animate. Educate. Entertain.

# Movement without Limits



v2.0

# OpenStage® by Organic Motion®

We listened. Feedback from our users in 22 countries, conversations with thousands of commercial animators, digital media educators, and interactive agencies.

We get it. You love the no markers – just jump right in – always on – instant calibration, but you need more.

Meet OpenStage by Organic Motion.

Based on a new architecture for markerless computer vision. New architecture means new capabilities.



Sony Wonder Technology Lab

What's new?

2 or more actors

Portable

Increased accuracy

Scalable

Prop tracking

No more backdrop

No more red lights

And still no markers!

## OpenStage

## Specifications

### Scan Space

- Flexible range from 4ft x 4ft up to 30ft x 30ft
- Based on number of cameras, system configuration, and resolution targets
- Requires unobstructed room
- Scanning footprint can closely match camera footprint
- Also works with green screens

### Vision Processor

- Server that receives all video feeds and runs OpenStage Tracking software

### Software

- OpenStage Tracking – proprietary computer vision software
- Animation plug-ins for Autodesk® MotionBuilder™ and Maya™
- Software Development Kit (SDK) available

### Cameras

- High Speed Color Cameras
- 120 and 200 frames per second modes
- C-Mount Lens with standard ¼ - 20 mount
- No LED light source

### Cabling & Camera Mounts

- High quality Firewire 800 with thumb screws
- 30ft cables; active repeaters available
- Tripods, wall, and ceiling mounts per installation needs

### Modular Architecture

- Add more cameras to increase scan space or accuracy
- Software modules available on rollout basis to add/extend features

### Calibration

- Actors Instantaneous
- System Under 3 minutes with simple light wand process

# Motion capture that works for you

## Animate



Organic Motion high speed color cameras are part of the new architecture that can see better and work in many environments including green screens.

## Educate



OpenStage is an ideal platform to explore human computer interfaces and virtual worlds, and to enhance animation and game development programs.

## Entertain



Avatar: The Exhibition at the EMP|SFM in Seattle. Attendees become a Na'vi character and walk on Pandora. Their experience is sent to YouTube.

"The OM system is great for two main reasons... no markers and always on. If you have used a marker-based mocap system, then you know the barrier that exists between the performer and her performance. 'No markers' means that when the creative urge strikes, just step in and get down. There is no other system that can do that."

Mark Butler  
Secret File Animation Studio, founder  
winner of Emmy and Promax Gold awards

"ETC students are planning exciting projects with Organic Motion this Fall. One film project is a re-interpretation of the 1920 film 'The Cabinet of Dr. Caligari' using student actors with motion capture data animating the monster character. For the super ambitious, we'd like to use the system as a platform for our Building Virtual Worlds class. The system enables a level of active participation in virtual worlds we have yet to see."

Mk Haley  
Carnegie Mellon's Entertainment & Technology Center  
associate executive producer and faculty member

"We chose Organic Motion for our full-body interactive experience in 'Avatar: The Exhibit' because we knew it would blow audiences away. The system tracks visitors' subtle gestures to reveal personalities, creating an experience true to James Cameron's vision. Since it works invisibly and seamlessly, we can serve hundreds of daily visitors at a top science exhibit about the world's most popular film."

Scott Snibbe  
Snibbe Interactive, founder and chairman  
permanent displays at MoMa & Whitney Museum

## Animators & Filmmakers

Many of you had basic requirements that our first system didn't meet, such as two actor tracking, greater scanning volume, and better data in demanding positions. Based on your requests - OpenStage delivers all this and more.

Fast Previz - OpenStage fits in most animation pipelines. Test your character rigs, generate animatics, create 3D storyboards, test environment and set scale, and much more. OpenStage is fast, flexible and reliable.

Scalable & Portable - Tracks in small or large rooms, client sites, green screen stages, and, of course, your own studio. Adapts instantly to single actor or multiple actor capture sessions.

Accuracy & Props - The OpenStage modular system is all about tracking subtle movements and props. It supports rapid development of feature upgrades based on ongoing requirements from industry pros. Just tell us what you need.

## Educators & Researchers

'Thank you' to the hundreds of educators who have helped improve our technology. Here are the features you requested, wrapped up into OpenStage. Our goal - give you the most effective teaching tool for digital media classes.

Portable/Flexible/Storable - OpenStage is easily moved, re-installed, and/or stored compactly. So you can multi-purpose your space effectively. Installs at various sizes, room environments, and locations.

Affordable - Can you say budget cuts? We offer systems designed to fit revised budgets or fulfill a grant's funding goals. You can start with a smaller tracking footprint and modularly build up. Calculate an extremely low cost-per-student use.

Multi-Person Tracking - OpenStage tracks two or more students live, all with no markers. This opens up compelling use cases for many classes and interdepartmental projects.

## Agencies & Exhibitors

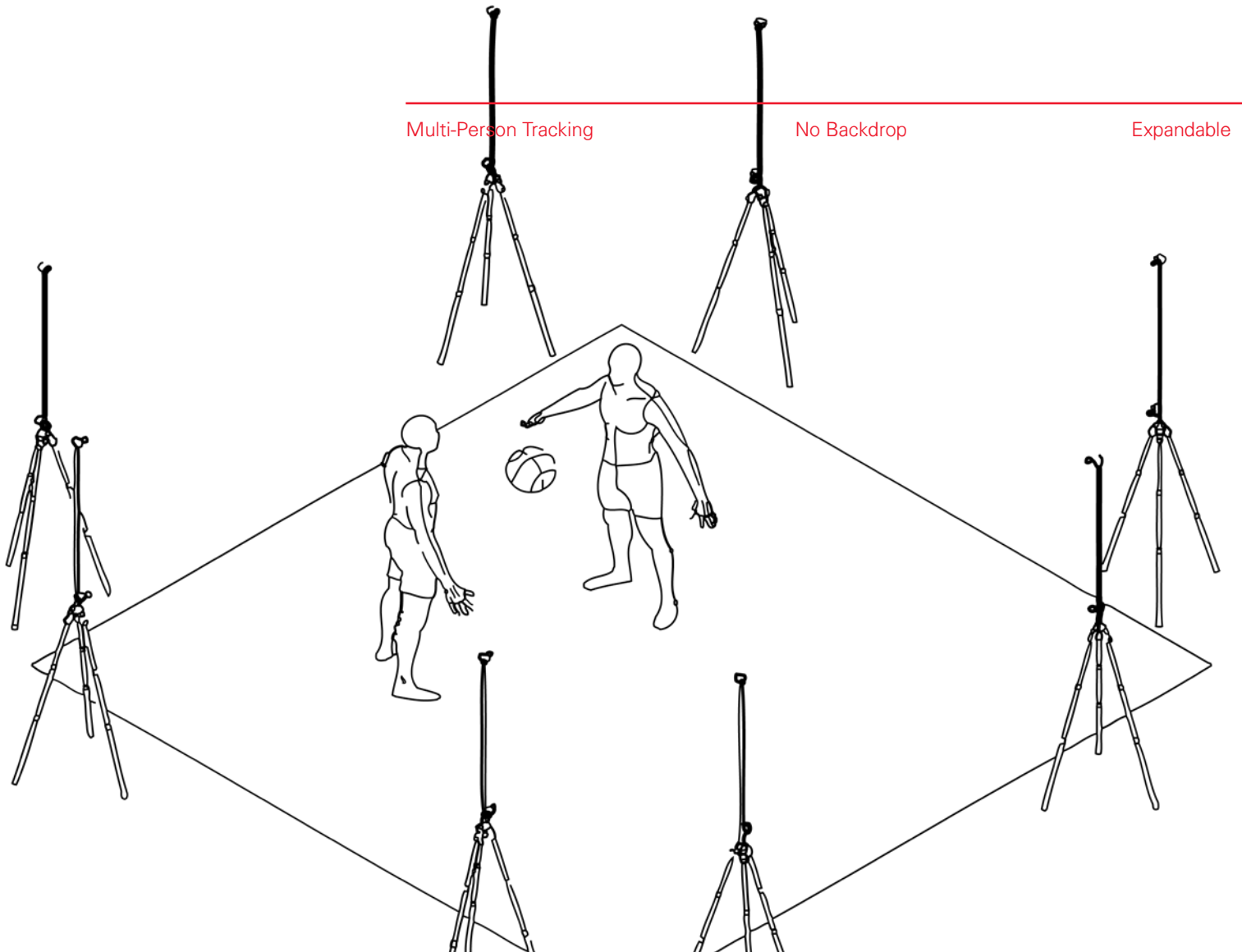
We've learned from the best in the industry what is needed to create a compelling live 3D experience for the public. It's all about the content and operational simplicity.

Flexible Exhibit Design - All you need is an unobstructed room and a good exhibit designer. The design, installation, content creation, and maintenance for OpenStage will make your project easier from pitch to implementation.

Operations - OpenStage includes self-correcting, diagnostic tracking and environmental intelligence. So your docent can run hundreds of people through the 'ride' every day. Adaptable for permanent, travelling, or temporary installations.

Interactive Content - OpenStage tracks multiple attendees while instantly streaming their data into interactive 3D engines and animation software. That empowers you to create just about any content experience you can think of.

# OpenStage v2.0



16 Cameras - Typical Configuration

Organic Motion, Inc. is a leading provider of computer vision software and markerless motion capture systems.

OpenStage® and BioStage® systems radically enhance motion capture for animation, education, 3D live public events, and life science research.

Contact Organic Motion directly to learn more about how OpenStage can transform your projects.

To test drive OpenStage, call our New York City headquarters: (212) 776-6100.  
Visit our website at [www.organicmotion.com](http://www.organicmotion.com)