

Next-generation Motion Capture System

ReActor 2 (R2) takes active-digital mocap technology to the next level – far above other systems! Its new DIGITAL technology delivers consistently clean, real-time data with exceptional coverage of your performer. R2 sets up faster and easier than camera systems so you can concentrate on producing quality data!

Maximize your mocap performance!



We know you've experienced problems with capturing motions. That's why we developed R2. It's the dependable solution that gives you consistently accurate tracking throughout the capture area without data drop out or gaps. And it minimizes post processing. It works in any environment with little or no calibration and runs with most 3D animation software packages.

*"We are mighty impressed with ReActor.
It has saved us incredible amounts of time.
Our deadline would have been impossible to
meet without the system."*

- Peter Coleman, Moon FX, Malaysia

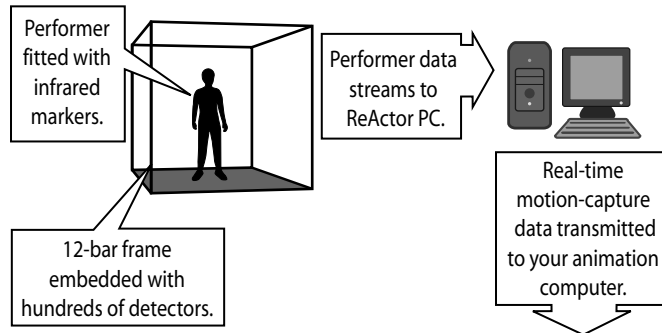


Ascension
Technology Corporation

ReActor 2

Digital Active-Optical Tracking

How It Works:



TECHNICAL

Markers:	30 active optical markers; 27 LEDs/markers	
Detectors:	Model 332	448 embedded in frame
	Model 342	512 embedded in frame
Capture rate:	900 measurements/sec.	
Data report rate:	Up to 30 measurements/sec.	
Interface:	Ethernet	
User software:	FusionCore - capture controller for real-time visualization, editing, and export to applications software	
Application software:	Supports Kaydara MOTIONBUILDER™ and MOCAP™ and most animation software packages	
Metallic Distortion:	None	
Ambient light:	Auto compensation for changing light	

PHYSICAL

Computer:	Dual Pentium processor PC with ReActor interface and FusionCore software	
Suit pack:	10.8cm x 3.2cm x 2.9cm; 900 grams	
Batteries:	5cm x 13cm; 227 grams / 30 min. life	
Suit:	Unisex, 2 piece design available in XS, S, M, L, XL	
Frame:	12 aluminum bars with linear sensor array	
MODEL	CAPTURE AREA (LxWxH)	FRAME SIZE (LxWxH)
332	3.0m x 3.0m x 2.4m	4.11m x 4.11m x 2.54m
342	3.0m x 4.2m x 2.4m	4.11m x 5.31m x 2.54m
Height Upgrade:	Increase to 3.0m (544 detectors embedded in this frame size)	

"ReActor gives us accurate, real-time tracking of an untethered human who interacts with virtual humans. We really like the fact that its active IR sensors are insensitive to visible light coming from our stereo projection system which sometimes confounds passive optical systems. Its robust construction is an added plus. We use it constantly without worrying about recalibration of camera tripods."

-Dr. Norm Badler, Center for Human Modeling and Simulation
University of Pennsylvania

Here's what R2 can do for you:

Problem: Less than perfect data

R2 Solution: Up to 544 new and improved digital detectors embedded in a 12-bar frame and over 800 active LEDs flashing per measurement cycle for complete tracking coverage. Instant Marker Recognition technology virtually eliminates occlusion drop outs. Revamped and powerful new algorithms improve accuracy, reduce noise, and provide consistently clean data throughout the capture area.

Result: You get the highest quality motion-capture data available.

Problem: Frequent calibrations and technical breakdowns

R2 Solution: Sturdy, ruggedized frame eliminates repetitive camera calibration and tripod alignment headaches. Set up the system once and start capturing data immediately. R2's FusionCore software provides complete diagnostics and real-time visualization of system parameters.

Result: You spend more time creating animations; less time dealing with technical issues.

Problem: Tedious set-up and costly installations

R2 Solution: We install your R2 system and integrate its outputs with your software.

Result: Once installed and calibrated, start capturing data immediately; save tons of time.

 **Ascension**
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Call: 800-321-6596

Outside N. America: 802-893-6657

Visit our web site at: www.ascension-tech.com

e-mail: ascension@ascension-tech.com Fax: 802-893-6659

PO Box 527, Burlington, VT 05402 USA