



PhoeniX Technologies Incorporated



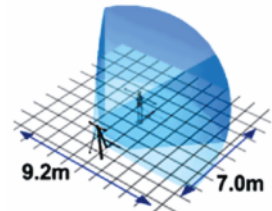
High Performance Real-Time 3D Motion Capture Systems For Professionals



Phoenix Technologies manufactures the world first wide-angle high accuracy active optical motion capture systems with **distributed tactile feedback**. Developed to provide professional motion capture solutions to scientific and research sectors, the VZ4000v and VZ4050 trackers break new grounds.

90 ° Angle
Capture

With the largest viewing angle on the market, one **single** tracker can capture 3D coordinates **over a 9x7 m space**.



3D View of Capture Area

Automatic
Calibration

The only system to offer **automatic calibration** for multiple-tracker system. No user action required, start capturing out-of-the-box.

Tactile
Feedback

Revolutionary tactile feedback function lets you send stimuli to any specific part of a subject, **prompt motions on demand**, **alert your subject(s) of motion deviation**, **provide virtual touch feedback ...**

No Marker
Errors

Each marker has **one unique ID** and is tracked flawlessly by the system. Marker id swap errors cannot occur. Captured data is reliable even in real-time.



Precision LED Markers



Octopus Markers



Wireless Markers



Wireless Tactile Markers

PTI systems come with **motion analysis software** and are ideal for Biomechanics, Rehabilitation, Exercise Sciences, etc.

Plug-ins are available for Matlab, Labview, Visual3D..., data can be analyzed / visualized **in real-time**.

Trackers feature **<0.5 mm RMS** accuracy and can detect a change of position of 0.015 mm at 1.2m

PTI systems can be easily **synchronized** with external equipment: force plates, EMG, HMD, Eye Tracking...



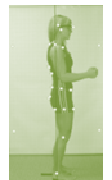
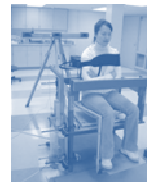
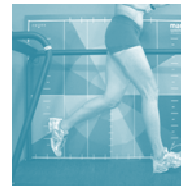
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Biomechanics
Virtual Rehabilitation
Posture and Gait
Virtual Reality

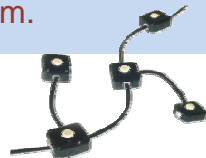
Sport Science
Human Factor
Neuroscience



FLEXIBLE

You can freely **build your own flexible marker layout** within minutes with Octopus markers. Easily connect more markers to any existing one.

Up to 512 markers can be tracked by a system.



WIRELESS

The **100% wire-free, self-powered** SIT Marker comes with 3 LEDs and needs no setup.

You need only **one** tracker to capture 3D coordinates over a 7x9m space.



COMPACT

Small setup space? The compact 62cm long **VZ4050 trackers** can fit in the tightest spaces!

Our trackers can be setup anyway you like to capture the motions you want from any direction!



VZ4000v Tracker

Sensing Volume:	190 m ³ of useful space over 7m radius
Min. Sensing Distance:	0.5 m (VZ4000, VZ4000v) 0.25 m (VZ4050)
Markers:	512 maximum (no marker ID errors)
Calibration:	Automatic & Instant (patent pending)
Accuracy:	<0.5mm RMS (H-series)
Viewing Angle:	90 ° (horizontal & vertical)
Data Latency:	<0.0005s
Resolution:	0.015 mm at 1.2m distance (VZ4000v)
Tactile Feedback:	Yes (VZ4000v, VZ4050)

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