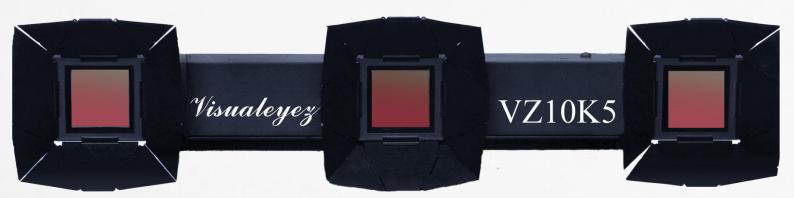


3D Motion Capture

Phoenix Technologies Inc

20 Years of Performance and Innovation

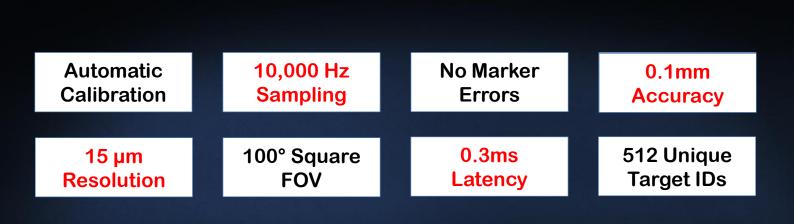


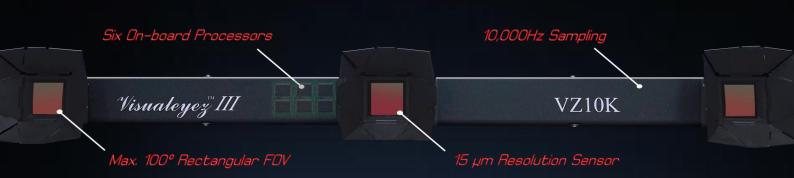


Power Performance Speed For Research

Treat yourself to the fastest 3D Motion Capture System with the new *Visualeyez III* trackers.

Multiple onboard processors for real-time 3D computations and 512 target ID tracking. Power without compromise.





Move your tracker *during* capture. Re-arrange tracker(s) arbitrarily. No need to register markers or patterns, unlike camera-based systems. No manual calibration required ever! ...even for a multi-tracker system.

10,000 Hz Sampling	Each VZ10K/10K5 tracker can reach sampling speed up of 10,000 Hz to capture faster motions and more markers. Unchallenged in 3D capture!
100° FOV	Up to 100 -degree field of view with a rectangular capture space. Largest viewing angle in the market. Every tracker can capture 3D coordinates over a 9x7x7m space, all the way to the right-angle corners.
0.1mm Accuracy	Highest RMS accuracy (1D, standard calibration range). <u>Each</u> 3D tracker's accuracy is verified with a 0.045mm certified 3D coordinate measurement machine complying standards ISO 9001, ISO 10012-1, MIL-STD-45662A (artifacts traceable to the National Institute of Standards and Technology).
0.3ms Latency	Built for true real-time applications from the start. All computations are done internally by multiple dedicated processors within each tracker and data are sent to the user instantly. No extra hardware or protocol stands in
	the way. VZIDK

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Matlab / Labview / ROS / Visual 3D Plug-ins, SDK, Low-level control APIs. The only technology to offer **INSTANT CALIBRATION** for even a **multi-tracker** system. **Move your tracker DURING capture** without any need to stop recording, and with no data errors!

Each active LED marker has **one unique ID** and is tracked flawlessly by the system, always. No marker/pattern registration required, ever. **Up to 512 unique IDs. NO MARKER SWAPPING/ identification errors.**

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 ...

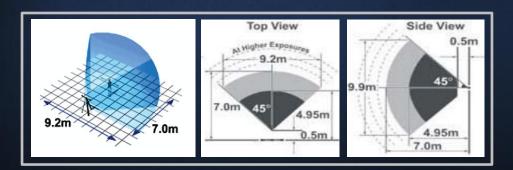
Tactile Feedback

Automatic

Calibration

No Marker

Errors



TECHNICAL SPECIFICATIONS

Sensing Volume:	~190 m ³ of capture space, over 7m distance nominal	
Minimum Sensing Distance:	0.5m (VZ10K), 0.25m (VZ10K5)	
Position Resolution:	0.015mm at 1.2m distance (smallest detectable position change)	
Number of Markers:	512 active LED markers with unique IDs	
Accuracy :	Up to 0.10mm (RMS, 1D, nominal), 0.25mm (RMS, 3D- combined, nominal) for standard calibration range (VZ10K)	
Data Latency:	<0.3 ms (at fastest sampling rate)	
Sampling Speed:	10,000 3D data points per second	
Calibration Range:	Standard range: 0.6~2.5m distance Extended range: 0.6~4m+ distance +/-40° yaw, +/-30° pitch Custom range possible (please inquire)	



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