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ViTrox's V810Ai QX1 Named Global Technology Award Winner for Smart AXI Inspection

PENANG, MALAYSIA – November 2026 – ViTrox, which aims to be the World's Most Trusted Technology Company, is excited to announce that its ViTrox Smart 3D AXI System – V810Ai QX1 received a 2026 Global Technology Award in the Inspection Equipment – AXI/X-ray Systems category. The award was presented during the Global Technology Awards ceremony held on Tuesday, October 27, 2026, at SMTA International in Rosemont, Illinois.



On 27th October 2026, ViTrox's Sr. General Manager of the U.S. & Canada, Mr. Richard Osborne (centre), proudly represented ViTrox in celebrating the achievement alongside Mr. Trevor Galbraith (right) from Global SMT & Packaging and ViTrox Technologies' Sr. Engineer, Mr. Eric Paul Taitano Cruz (left).

The award recognises the V810Ai QX1's advanced capabilities for addressing the increasingly complex inspection requirements of modern electronics manufacturing. Demonstrating strong industry adoption and proven production-line performance, more than 240 units of the system have been successfully deployed within a single year across major global AI-server manufacturers.

The V810Ai QX1 is an AI-powered 3D X-ray inspection system that combines ultra-high-resolution imaging, ViTrox's proprietary 3DCT software (VCT), and intelligent defect analysis. With flexible resolution from 2 µm to 30 µm and a tomography angle of up to 50°, the system provides detailed imaging of miniature features and complex internal structures. Proprietary SmartTone per-pixel compensation and VCT technology help generate clear volumetric models, even when inspecting heavily shaded components such as metal stiffeners and thermal heat sinks.

The platform incorporates an AI-driven inspection suite designed to automate and improve the accuracy of challenging inspection tasks. AI Auto Buy-Off (AI VVTS) automates defect verification, while AI Void Inspection provides precise segmentation against complex greyscale backgrounds and shading gradients.

For demanding production environments, the V810Ai QX1 High-Speed (HS) configuration achieves image acquisition speeds of up to 1.1 seconds per Field of View (FOV), delivering up to a 3x improvement in throughput compared to V810Ai QX1 High-Resolution (HR) configuration. Real-time laser profiling and autofocus algorithms also support warpage compensation, generating topological warpage heatmaps and helping minimise out-of-focus errors when inspecting warped PCBAs, such as AI-server boards.

The system also incorporates a proprietary hardware collimator with filter caps that can reduce X-ray radiation exposure by up to 90%, helping protect sensitive stacked-die architectures such as High Bandwidth Memory (HBM). Together, these capabilities enable the V810Ai QX1 to support applications ranging from SMT production to advanced packaging, including Flip Chip and System-in-Package (SiP) assemblies.

"We are honoured to have the V810Ai QX1 recognised with a Global Technology Award," said Mr Lee Sung Way, Research and Development, Senior Director at ViTrox Technologies. "The rapid adoption of the platform by leading AI-server manufacturers demonstrates the need for inspection technology that can keep pace with increasingly complex electronics and advanced packaging. The V810Ai QX1 brings together high-resolution 3D X-ray imaging, AI-driven inspection, and high-speed performance to help manufacturers improve defect detection, productivity, and overall process confidence."

Since 2005, the prestigious Global Technology Awards have recognised the absolute best new innovations in the printed circuit assembly and packaging industries. It brings together the global SMT and advanced packaging industry in a celebration of the companies and people that are achieving the highest standards and driving our industry forward. For more information, visit www.globalsmt.net.

About ViTrox Technologies

ViTrox is committed to being the World's Most Trusted Technology Company and the leading solutions provider through the most innovative, advanced, and cost-effective machine vision solutions of excellent quality to its customers by integrating ViTrox's technologies, people, and strategic alliances.

ViTrox offers a full spectrum of solutions, ranging from Middle & Back-end Semiconductor Inspection Solutions, SMT PCB Assembly Vision Inspection Solutions, Integrated Industrial Embedded Solutions, and Manufacturing Intelligence Solutions Towards 5.0. ViTrox is headquartered in Penang, Malaysia, with regional offices in Asia, Germany, the United States, and is supported by a global network of sales and support sites.

For more information about ViTrox's products and services, please visit www.vitrox.com.