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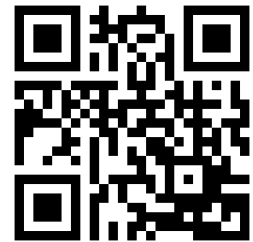
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ViTrox Showcases Next-Generation AI-Powered Inspection Solutions at SMTA Penang 2025



PENANG, MALAYSIA - SEPTEMBER 2025 - ViTrox aims to be the World's Most Trusted Technology Company in providing innovative, advanced, and cost-effective automated Machine Vision Inspection Solutions for the semiconductor and electronics packaging industries, is excited to announce its participation in the **SMTA Penang**, taking place at **Iconic Marjorie Hotel, Penang (Booth #A2)**, on **24th and 25th September 2025**.

At the event, ViTrox will unveil its latest Artificial Intelligence (A.I.) Self-Healing Solution, designed to deliver precision, reliability, and traceability across the entire electronics manufacturing process. Powered by **Manufacturing Intelligence Solutions Towards Industry 5.0**, this platform integrates a wide range of advanced features: from customisable dashboards and Control Tower for real-time line monitoring and optimisation, to ONEView and Process Insights for simplified root cause analysis, and Proactive Predictive Maintenance for improved equipment reliability. A.I. elements are seamlessly embedded in Programming & Recipe Quality

Control, Inspection, Auto Buy-off, and Auto Fine-tuning within ViTrox's inspection solutions. Together, these capabilities minimise human intervention, enhance detection accuracy, prevent escapes, and drive greater efficiency and consistency in production, empowering manufacturers to achieve truly intelligent and self-sustaining operations.

ViTrox will also showcase intelligent solutions that empower **smart manufacturing**:

VisionXpert Smart Camera (XC Series) – Compact yet powerful, this “mini AOI” solution boosts production efficiency. It combines advanced vision tools, A.I. Auto-Tuning, and Deep Learning Algorithms to enable fast, adaptive inspections and deliver highly accurate results. Designed for exceptional flexibility, the Smart Camera allows seamless integration into tight spaces, offering cost-effective automation with high-definition image quality and reliable performance. Alongside, the **VisionXpert Smart Code Reader (XS Series)** expands smart manufacturing capabilities with high-speed, high-accuracy code image acquisition, flexible mounting adaptability, and advanced deep learning algorithms for consistent and reliable decoding performance across diverse applications.

In addition, ViTrox recently introduced a series of **AI-driven inspection innovations**:

Award-winning V510Ai DST Smart 3D AOI - A dual-sided inspection platform for both SMT and THT processes, supporting simultaneous top-and-bottom inspection with up to 100mm top clearance, ideal for complex PCB assemblies.

V810Ai QX1 Smart 3D AXI – A next-generation high-resolution inline AXI system for miniature and complex components, delivering enhanced coverage, throughput, and traceability through advanced AI-driven inspection.

V510i R Smart Robotic Optical System – Equipped with 6-axis robotic arms for flexible, high-precision inspection of conformal coating and final assemblies, ideal for hidden or challenging parts.

Adding to the excitement, Ms. Teoh Chai Ling, our Product Marketing Expert, will deliver a technical presentation titled “***Beyond Inspection: AI as the New Engine of SMT Manufacturing Excellence***” on **25 September 2025 at 2:30 PM**. Attendees will gain practical insights into how A.I. is revolutionising SMT manufacturing, moving beyond defect detection to unlock hidden process value with solutions such as **A.I. Recipe Quality Control, A.I. Fine-Tuning, A.I. Training Platforms, and Process Insight**.

Don't let manufacturing challenges slow you down! Meet our ViTrox experts on-site for live product demonstrations and to have your questions answered directly. To schedule a meet-up with us during the show, simply fill in our [appointment form](#) or scan the QR code below. For further inquiries, feel free to reach us at enquiry@vitrox.com.



We look forward to seeing you there!

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 solution 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 Industry 5.0](#). ViTrox is headquartered in Penang, Malaysia, with offices in Asia, Germany, and the United States and sales and support sites worldwide.

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