



FOR IMMEDIATE RELEASE

Contact:

ViTrox Technologies Sdn. Bhd.

746, Persiaran Cassia Selatan 3,

Batu Kawan Industrial Park,

14110 Bandar Cassia,

Penang Malaysia.

Tel: (+604) 545- 9988

E-mail: enquiry@vitrox.com

Website: www.vitrox.com



ViTrox Presents Advanced Inspection and Smart Manufacturing Solutions at NEPCON Asia 2025



PENANG, MALAYSIA - {OCTOBER 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. It is excited to announce its participation in the **Nepcon Asia** at **Booth #11E01** in the **Shenzhen World Exhibition & Convention Centre (SWECC, Bao'an)** from **28th to 30th October 2025**.

A closer look at ViTrox's advanced turnkey solutions for smart manufacturing:

V810Ai QX1 (Smart 3D AXI System) - An **evolutionary A.I.-powered inspection platform** that combines ultra-high-resolution imaging with advanced AI-driven algorithms to deliver precise miniature defect detection and accurate 3D reconstruction of internal structures. Featuring Advanced Planar CT technology, it supports dual-sided PCB inspection with selective slice

analysis for comprehensive defect coverage, while ensuring enhanced throughput, traceability, and productivity for complex electronic assemblies.

V510Ai DST (Smart 3D AOI System) - An **award-winning dual-sided inspection solution** for SMT and THT processes, supporting top-and-bottom inspection with up to **100mm top clearance** for complex PCB assemblies. Equipped with **true 3D measurement**, four configurable **angular vision cameras**, and integrated A.I. capabilities such as **Smart Programming, Recipe Quality Control, A.I. Auto Buyoff**, and **A.I. Fine Tuning**, it streamlines setup while ensuring high accuracy and comprehensive coverage. With its **Centralised Control Tower**, the system enables real-time performance monitoring, remote program fine-tuning, and reduced operator dependency for enhanced productivity.

V310i Optimus 3D (Smart 3D SPI System) - A high-speed inspection system designed to ensure accurate solder paste deposition in PCB manufacturing. It combines **intelligent programming, machine learning**, and **high-resolution 3D imaging** to deliver precise measurement and consistent defect detection. With **real-time closed-loop control** and **IPC-CFX-2591 QPL certification**, the system supports process-to-process data correlation and seamless smart manufacturing integration for enhanced quality and efficiency.

V9i ARV (Smart Robotic Optical System) - An **award-winning** inspection solution that automates conformal coating and final assembly inspections with **6-axis COBOT technology, CAD-less Smart Learning**, and **multi-focal vision**. Renowned for its flexibility and precision, the V9i ARV has received multiple industry recognitions, establishing it as a powerful alternative to traditional manual inspection.

VisionXpert Smart Camera (XC Series) - A compact yet powerful “mini AOI” solution designed to boost production efficiency. It integrates **advanced vision tools, A.I. Auto-Tuning**, and **Deep Learning Algorithms** to deliver fast, adaptive, and highly accurate inspections. With its flexible design for space-constrained environments, the Smart Camera allows seamless integration while providing high-definition image quality and reliable performance.

VisionXpert Smart Code Reader (XS Series) - An advanced all-in-one solution that enhances smart manufacturing with **high-speed, high-accuracy code image acquisition** and a **built-in deep learning algorithm** for consistent and precise decoding performance. Its compact design with flexible mounting adaptability allows seamless deployment across diverse industrial applications, delivering reliable operation even in the most challenging environments.

Manufacturing Intelligence Solutions Towards Industry 5.0 - A **smart manufacturing platform** that optimises production through **real-time data visualisation, A.I.-driven insights**, and **end-to-end traceability**. It incorporates Control Tower for live performance monitoring, ONEView and Process Insights for root cause analysis, and Proactive Predictive Maintenance to enhance equipment reliability and drive greater manufacturing resilience.

Together with our partners, ViTrox transforms innovation into real-world impact. Visit ViTrox at **Booth #11E01** to explore our latest innovations! Connect with our experts, discover tailored solutions for your production needs, and experience how we can accelerate your journey toward smarter manufacturing. To schedule a meeting with us during the show, simply register your [appointment](#) here or scan the QR code below. For more information, contact us at enquiry@vitrox.com.



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 [Industry 4.0 Manufacturing Intelligence Solutions](#). 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.