



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 Showcases AI-Powered SMT Inspection and Manufacturing Intelligence Solutions at NEPCON Asia 2026

智启人本. 实证卓越
Humanised Intelligence. TRUSTED Results

印刷电路板表面组装视觉检测方案

迈向工业5.0智能工厂解决方案

V310Ai XL 智能 3D 视觉检测 (SPI) V510Ai OP XXL 智能 3D 光学检测 (AOI) V510Ai DST 智能 3D 光学检测 (AOI) V810Ai QX1 智能 3D X射线检测 (AXI) V-ONE AI 自动修复

智慧工业解决方案

新品 V-Trace 方案

XC 系列 智能工业 - 智能相机 XS 系列 智能工业 - 智能读码器 VisionSmartCheck AI 视觉检测与追溯 VisionSmartGuide AI 辅助检测产线验证

NEPCON ASIA | ufi Approved International Event

2026.10.27 - 10.29
展位 #13E40
Shenzhen World Exhibition & Convention Center (Bao'an) | China

立即预约

PENANG, MALAYSIA – October 2026 – ViTrox, which aims to be the World's Most Trusted Technology Company, is pleased to announce its participation in **NEPCON Asia 2026**. The exhibition will take place from **27 to 29 October 2026** at **Shenzhen World Exhibition & Convention Center (Baoan)** in Shenzhen, China. Visitors can visit ViTrox at **Hall 13, Booth #13E40**.

As China's electronics manufacturing landscape rapidly evolves—driven by booming demand for AI hardware, advanced PCBA, and smart factory upgrades—manufacturers face increasing pressure for high reliability and micro-level precision. ViTrox is positioned at the forefront of this shift, delivering cutting-edge automated and AI-driven inspection technologies that empower manufacturers worldwide to overcome complex production challenges and accelerate their transition toward Industry 5.0.

A Fully Integrated, AI-Driven Inspection Ecosystem

During the exhibition, ViTrox will introduce its latest solutions to help manufacturers achieve smarter and more efficient production through advanced AI-driven inspection technologies. By enabling seamless data exchange and intelligent process monitoring, these solutions help manufacturers reduce human error, detect defects early, fine-tune process performance, and maintain consistent quality throughout production.

Featured Inspection Solutions:

- [Smart 3D SPI System V310Ai XL](#) – High-speed 3D solder paste inspection for large boards up to 460mm x 690mm, using machine learning and real-time adaptive control to improve solder deposition accuracy and PCBA yield.
- [Smart 3D AOI System V510Ai DST](#) – Dual-sided inspection for SMT and THT assembly, featuring AI Smart Programming for CAD-less setup and AI Auto Buy-off to reduce manual review and buy-off time.
- [Smart 3D AOI System V510Ai OP XXL](#) – High-Power PSP 3D inspection for tall components and complex solder joints on large-format PCBs, handling boards up to 1,200mm x 690mm with AI Smart Programming.
- [Smart 3D AXI System V810Ai QX1](#) – An award-winning, AI-powered automated X-ray inspection machine built for advanced packaging challenges such as Flip Chip and System-in-Package (SiP) applications. With 2 µm resolution, ±50° tomography, AI-based defect classification, and an optional dual-lane configuration, V810Ai QX1 is engineered to deliver high-throughput inspection of complex boards with reliable micro-defect detection.

Empowering Traceability and Efficiency: The VisionXpert Series

In addition to its **SMT PCB Assembly Vision Inspection solutions**, ViTrox will also showcase the **VisionXpert Series**, featuring the [VisionXpert Smart Camera \(XC Series\)](#) and [VisionXpert Smart Code Reader \(XS Series\)](#). The XC Series combines AI auto-tuning and deep learning to deliver highly accurate inspection in a compact, space-saving design, while the XS Series leverages deep learning for fast and reliable 1D/2D code reading, even in challenging conditions, enhancing traceability and supporting automated manufacturing.

The showcase will also feature **VisionSmartGuide (VSG)**, an AI-powered vision solution that provides real-time guidance and step-by-step process validation for manual assembly operations. Using advanced AI video processing technology, VSG validates each assembly step as it occurs, helping to error-proof processes at the source and flag incorrectly assembled products before they proceed to the next production stage.

V-ONE: Manufacturing Intelligence Solutions Towards Industry 5.0

ViTrox's [Manufacturing Intelligence Solutions Towards Industry 5.0 \(V-ONE\)](#) will be showcased live, highlighting its **self-healing manufacturing concept** through real-time data visualisation, AI-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.

SMT	PCB	Assembly	Production	Line
-----	-----	----------	------------	------

Beyond the AI-powered solutions highlighted above, ViTrox will also showcase its entire [SMT PCB Assembly Vision Inspection](#) ecosystem through immersive 3D models, offering visitors an interactive view of a seamlessly connected and intelligent production line designed to enhance yield and ensure total quality assurance. Visitors will experience the unified workflow of **Smart 3D SPI**, **Smart 3D AOI**, and **Smart 3D AXI systems** working in tandem. The lineup is further extended by the **Smart Robotic Optical System (ARV)** for Conformal Coating and Final Inspection, illustrating ViTrox's comprehensive approach to high-capacity electronics manufacturing.

Together with our partners, ViTrox continues to turn innovation into real-world results. Visit us at **Hall 13, Booth #13E40** to connect with our experts and discover how we can accelerate your journey towards smart manufacturing. Schedule a meeting during the exhibition by clicking [here](#) or simply scanning the QR code below. For further inquiries, please contact us at enquiry@vitrox.com. We look forward to meeting you at the show!



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 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.