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Innovation Meets Efficiency: Discover ViTrox's Advanced Inspection and Smart Manufacturing Solutions at IPC APEX 2026

Humanized Intelligence
TRUSTED Results

SMT PCBA Vision Solutions

- V510i AOI for Advanced Packaging & Microelectronics
- NEW** V510Ai DST Smart 3D AOI System
- NEW** V510Ai R Smart 3D AOI System
- NEW** V810Ai QX1 Smart 3D AXI System
- V9i Smart Robotic Optical System

Integrated Industrial Embedded Solutions

- NEW** XC-330 VisionXpert Smart Camera Solutions
- XS-130 VisionXpert Smart Code Reader Solutions
- I/O Cards | Motion | Illumination Integrated Industrial Embedded Solutions
- V-ONE AI Self-Healing Solution

Manufacturing Intelligence Solutions Towards IR5.0

ViTrox

APEX EXPO 2026
by Global Electronics Association

2026.03.17 - 03.19
Booth #1810
Anaheim Convention Center | CA

Make Appointment

PENANG, MALAYSIA - {MARCH 2026} 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 **IPC APEX 2026**, which will be held at **Booth #1810** in the **Anaheim Convention Center, California**, on **17th-19th March 2026**.

Discover our full suite of turnkey, advanced, and intelligent solutions:

V810Ai QX1 Smart 3D AXI - An evolutionary A.I.-powered inspection platform combining **ultra-high-resolution imaging up to 2 μ m** with **advanced A.I.-driven solutions** that optimize inspection programming and verify defects for miniature components. Powered by proprietary SmartTone imaging and advanced 3DCT, the system enables reliable inspection of heavily shaded and complex structures, and delivers precise inspection capabilities across the full

production lifecycle. It enhances throughput, strengthens traceability, and boosts productivity for high-density assemblies from NPI to volume production.

V9i Smart Robotic Optical System ARV - An **award-winning** inspection solution that surpasses standard vision inspection capabilities, featuring a **6-axis robotic arm** for flexible multi-angle inspection. Designed to automate human vision inspection, it delivers high-accuracy inspection for conformal coating, final assembly, and other PCB applications.

V510Ai R Smart 3D AOI - An inline inspection system with flexible **6-axis robotic arms** for high-precision, automated inspection, utilizing A.I., image-based algorithms, and advanced 3D technology to perform 3D inspection even on partially hidden parts. This pioneering AOI platform provides **2-in-1 inspection** for conformal coating and final assembly within a single system, ensuring superior defect detection and high-quality inspection, including down to 25um coating thickness measurement capability.

V510i Smart 3D AOI System for Advanced Packaging and Microelectronics - A **next-generation 3D AOI system** designed for **advanced packaging** and **microelectronics inspection**, delivering high-speed, high-accuracy 3D measurement for mirror components, reflective die, and wire bonds. It offers unique test coverage for lead frames, die, and wire bond inspection, with real-time closed-loop data and cross-referencing across inspection stages.

V510Ai DST Smart 3D AOI - An **award-winning dual-sided inspection system** for SMT and back-end PCB assembly applications, providing simultaneous high-speed 2D and 3D inspection. With an industry-leading **100mm** top clearance, it supports **A.I.-driven programming** for SMT and provides extensive inspection coverage for backend PCB assembly processes, including THT component and joint inspection, staking glue and epoxy inspection, as well as high-level assembly inspection. Its top-bottom inspection capability ensures maximum defect detection while redefining efficiency and quality assurance in the back-end process.

VisionXpert Smart Code Reader (XS Series) - An **all-in-one smart code reading solution** that optimizes decoding across diverse environments using **advanced deep learning algorithms** and **adaptive auto-tuning**. It delivers high-speed, high-accuracy code acquisition with reliable performance to maximize throughput in dynamic production settings.

V-Trace - A powerful solution that integrates smart inspection with end-to-end traceability to drive operational efficiency. The **VisionXpert Smart Camera (XC Series)** automates real-time defect detection, while operators use the **VTraceLINK**, an intuitive edge application powered by **V-ONE MARS** with a no-code logic engine, to review images, inspection results, and control I/O. To ensure long-term compliance, the V-Trace server securely centralizes all inspection history for RMA verification. By combining **intelligent inspection, easy operator tools, and reliable traceability**, V-Trace overcomes data fragmentation, reduces errors, and streamlines quality management across the production line.

Manufacturing Intelligence Solutions Towards Industry 5.0 (V-ONE) - A smart manufacturing platform optimizing production through real-time data, A.I.-driven insights, and full traceability. Powered by V-ONE, **A.I. Self-Healing capabilities** are embedded within its inspection solutions and all SMT equipment, featuring **Control Tower** for real-time monitoring, **ONEView** and **Process Insights** for intelligent analytics, automated decision-making, and **Proactive Predictive Maintenance** across inspection and production workflows. These features empower manufacturers to achieve higher efficiency, consistency, and smarter, more resilient, self-optimizing operations.



We're excited to meet you at Booth #1810! Schedule an appointment with us by clicking the [link](#) or scanning the QR code. Our experts are ready to discuss your production challenges and explore tailored solutions to enhance your operations. Let's work together to boost productivity and drive innovation! For more information, feel free to contact 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 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 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.