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ViTrox Empowers Next-Gen Advanced Packaging with AI-Powered Vision Inspection Solutions at SEMICON Taiwan 2026

Humanised Intelligence TRUSTED Results

AI

Middle and Back-End Semiconductor Vision Solutions

- WIX AI** Smart Wafer AOI Machine
- PX40AI** Smart Die Sorting Machine
- TH3000I** Smart Tray Based Vision Handler
- SWIR | 2D/3D Vision | 58 Vision** Smart Vision Inspection Systems
- VR20AI G2** Smart Post Seal Vision Handler
- V510AI Vision Pro** Smart 3D AOI System for Substrate-Level & SIP Inspection

SMT PCBA Vision Inspection Solutions

- V510AI Semicon** Smart 3D AOI System
- V510AI DST** Smart 3D AOI System
- V510AI QX1** Smart 3D AXI System

SEMICON TAIWAN 2026
2026 . **09.02 - 09.04**
Hall **2, Level 1**
Booth **#P6006**
Taipei Nangang Exhibition Center
(TaiNEX), Taiwan

Schedule Appointment Now!

PENANG, MALAYSIA – August 2026 – ViTrox, which aims to be the World's Most Trusted Technology Company, is excited to announce its participation in **SEMICON Taiwan 2026**, one of the world's leading semiconductor industry events. The exhibition will take place from 2 to 4 September 2026 at TaiNEX 1 & 2 in Taipei, Taiwan. Visitors can visit ViTrox at **TaiNEX 2, 1F, Malaysia Pavilion, Booth #P6006**.

The semiconductor industry continues to face increasing challenges as packaging architectures such as SiP, memory technologies like HBM, and advanced processes such as CoWoS become more widely adopted. While these technologies enable higher performance and integration, they also introduce greater process complexity and stricter quality requirements.

Key challenges include:

- **Precision Bottlenecks:** Sub-micron defect detection requires inspection capabilities beyond conventional methods.

- **Hidden Complexity:** Advanced 3D structures often conceal internal defects that are difficult to detect.
- **Yield Pressure:** Rising investment in advanced manufacturing places greater emphasis on first-pass yield and equipment efficiency.

To address these challenges, ViTrox provides next-generation AI-powered vision inspection solutions that enhance detection accuracy, improve process stability, and support efficient semiconductor manufacturing.

At SEMICON Taiwan 2026, ViTrox will showcase a fully integrated inspection ecosystem that seamlessly supports the entire semiconductor manufacturing journey, delivering end-to-end quality assurance from wafer to board level.

At the Wafer Level, we address the earliest stages of manufacturing with the [WiX Ai Smart Wafer AOI Machine](#). This is a unified platform that gives fabs full-depth wafer visibility, from surface to inner layer, before wafers progress to later stages. It detects sub-micron surface defects (< 1 µm) with AI-enhanced accuracy, while proprietary SWIR technology uncovers hidden inner cracks that conventional inspection cannot see.

During Die Sorting & Packaging, once the wafer is transformed into dies, precision sorting becomes critical. Our [PX40Ai Smart Die Sorting Machine](#) streamlines high-speed sorting, six-sided inspection, and tape-and-reel packaging, replacing conventional manual inspection with exceptional accuracy and improved production efficiency.

Designed to address the growing complexity of advanced packaging, the [TH3000i Smart Tray Based Vision Handler](#) combines an adaptive vision system with AI-powered defect detection to support diverse package inspection requirements. Building on this intelligent inspection capability, V-ONE In-Process Verification further enhances overall inspection efficiency by enabling remote inspection review and verification.

During Final Assembly & Post-Seal, the [VR20Ai G2 Smart Post Seal Vision Handler](#) minimises machine idle time through a high-speed dual-track system design, while supporting automated tape insertion and width conversion (8 to 32 mm), ensuring compliance with international quality standards.

At the Strip & Board Level Inspection stage, the [V510Ai Smart 3D AOI System for Substrate-Level and SiP Inspection](#) utilises high-resolution 3D measurements and SWIR imaging to detect surface anomalies, component offsets, and inner die cracks on strips and complex high-density modules, ensuring robust inspection for IC package integrity.

During the show, ViTrox will also introduce our SMT Full Line Solutions, including **Smart 3D SPI, Smart 3D AOI System, Smart 3D AXI System, and Smart Robotic Optical System (ARV)**. These smart manufacturing solutions are linked to ViTrox's Manufacturing Intelligence Solutions Towards Industry 5.0 – V-ONE to form an end-to-end AI-driven Inspection Ecosystem,

guaranteeing seamless data connectivity and true closed-loop control. Ultimately, this comprehensive integration enables manufacturers to reduce human error, accurately detect defects early, optimise process performance, and maintain consistent product quality across every production stage.

Visit us at **TaiNEX 2, 1F, Malaysia Pavilion, Booth #P6006** to connect with our experts and discover tailored inspection solutions for your manufacturing needs. To schedule a meeting with our team during the exhibition, simply complete our [appointment](#) form or scan the QR code provided.



For further inquiries, please contact us at enquiry@vitrox.com. We look forward to meeting you in Taipei and embarking on an innovative journey together!

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.