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ViTrox Unveils AI-Driven Inspection Solutions at UGM Malaysia 2026 to Transform Smart Electronics Manufacturing



ViTrox showcased its latest solutions and exciting features through insightful technical sharings and live demonstrations to valued customers and partners at UGM Malaysia 2026, held at ViTrox Campus 2.0.

PENANG, MALAYSIA – October 2026 – ViTrox, which 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, successfully hosted its **User Group Meeting (UGM) Malaysia 2026** on 22 October 2026 at ViTrox Campus 2.0. The event brought together **68 participants from 18 companies**, marking UGM Malaysia's first return to campus since 2022. It provided a valuable platform for technical exchanges and industry networking, further strengthening relationships between ViTrox, its customers, and industry partners.

SMT PCB Assembly: Smart 3D Inspection Solutions

During the event, ViTrox showcased its application of AI across electronics manufacturing, spanning inspection, traceability, and factory-wide intelligence. Key highlights included the **Smart 3D SPI System**, featuring the 25MP High-Speed Micro SPI, which delivers 2× faster 2D and 3D image capture. The **Smart 3D AOI Series** was also highlighted, by combining real 3D measurement, high-resolution imaging, and AI-powered programming and defect review, it delivered fast, accurate inspection across semiconductor, SMT, and PCB assembly lines, helping manufacturers improve productivity and reduce manual effort. For X-ray inspection, ViTrox introduced the **Smart 3D AXI System** **V810Ai QX1 Series**, available in four configurations and equipped with AI-powered features, including AI Void Inspection, AI Intelligent Tuning, and AI Auto Buyoff, to support faster, more consistent decision-making on the production floor.

Connecting the Entire Production Line

Beyond inspection, the **VisionXpert series** of smart cameras and code readers supports traceability throughout the SMT process, from kitting to packing, with AI-powered capabilities to read damaged codes as small as 0.8 mm. Meanwhile, **V-Trace Solutions** for smart manual assembly integrates production data to enable comprehensive traceability and analytics.

The **Smart Manufacturing Intelligence Solutions Towards Industry 5.0 (V-ONE)** were also showcased, featuring **Process Insight** for real-time detection of recurring defects across SPI, AOI, and AXI; **Full Board One View**, which retrieves a board's complete inspection history with a single barcode scan; and **Line Insight**, which provides Overall Equipment Effectiveness (OEE) data for individual machines to help manufacturers identify bottlenecks and optimise production performance. ViTrox further presented its **Autonomous Mobile Robots (AMR)** series under the ViE brand, engineered for smart factory and warehouse automation. These AMRs leverage advanced navigation capabilities and intelligent software to enable seamless material handling, dynamic routing, and efficient intra-factory logistics across complex production environments.

The interactive sessions provided participants with first-hand exposure to ViTrox's integrated technology ecosystem, encouraging meaningful discussions and constructive feedback. Participants welcomed the opportunity to explore the solutions in action and gain practical insights into AI applications on the factory floor. These exchanges also provided valuable input

to support ViTrox's ongoing innovation efforts and ensure its solutions continue to address the evolving challenges of the manufacturing industry.

ViTrox sincerely thanks all customers and SCPs for their participation and support at UGM Malaysia 2026. Building on the event's success, ViTrox remains committed to advancing intelligent manufacturing through continuous innovation and close collaboration, delivering greater value to its customers and partners.

Building on these inspection capabilities, ViTrox's global support team is committed to helping manufacturers eliminate production bottlenecks and implement AI-driven solutions locally. To explore the full range of advanced inspection technologies offered by ViTrox, or to kickstart your digital transformation, please visit www.vitrox.com to schedule a demo request or send in an inquiry.

For further inquiries, please 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 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.