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ViTrox Americas to Highlight AI-Driven Inspection and Industry 5.0 Manufacturing Solutions at SMTA Space Coast

Hutto, TX – October 2026 – ViTrox Americas is pleased to announce that it will discuss its comprehensive portfolio of automated inspection and manufacturing intelligence solutions at the SMTA Space Coast Expo & Tech Forum, taking place November 12 at the Melbourne Auditorium in Melbourne, Florida. The company's portfolio spans solder paste inspection (SPI), automated optical inspection (AOI), automated X-ray inspection (AXI), automated robotic vision (ARV) and Manufacturing Intelligence Solutions Towards Industry 5.0, integrating artificial intelligence (AI), advanced imaging and production data to help electronics manufacturers improve quality, process control and operational efficiency.

As electronic assemblies become more complex and manufacturers face increasing demands for quality, traceability and production efficiency, ViTrox's integrated inspection ecosystem is designed to identify defects, provide actionable process insights and support continuous improvement across the manufacturing line. By connecting inspection technologies with manufacturing intelligence software, the company helps manufacturers move beyond defect detection toward data-driven process optimization and closed-loop production control.



Integrated Inspection from Solder Paste to Final Assembly

ViTrox's Smart 3D SPI solutions measure solder paste deposition to help identify printing issues before they affect downstream processes. Its Smart 3D AOI systems use advanced optical inspection and AI-powered capabilities to detect assembly defects, while Smart 3D AXI systems use X-ray imaging to inspect hidden solder joints and internal structures that cannot be evaluated through conventional optical methods.

The portfolio also includes the Smart Robotic Optical System (ARV), which combines machine vision with a six-axis robotic arm to perform multi-angle inspections of conformal coatings, assembled products and other challenging features. This approach supports inspection of areas that may be difficult to access using conventional fixed-angle vision systems.

Across these technologies, AI-enabled capabilities support automated programming, defect classification, inspection optimization and review processes, helping manufacturers improve inspection consistency while reducing reliance on manual intervention.

VisionXpert XC330 and XC130 Smart Cameras

ViTrox will also highlight its XC330 and XC130 smart camera solutions, extending intelligent vision capabilities to applications requiring flexible inspection and automation integration.

The VisionXpert XC330 Smart Camera combines onboard image processing with advanced vision tools and AI capabilities to support high-precision inspection and complex inspection logic. Its scalable imaging capabilities and flexible software environment make it suitable for applications requiring detailed image analysis and integration into automated production systems.

The XC130 Smart Camera complements this portfolio by bringing smart vision capabilities to industrial inspection and automation applications. The VisionXpert camera family is designed to support flexible integration, enabling manufacturers to address targeted inspection tasks without necessarily requiring a conventional, full-scale inspection machine.

Manufacturing Intelligence Towards Industry 5.0

Connecting inspection results with production data is central to ViTrox's Manufacturing Intelligence Solutions Towards Industry 5.0, powered by its V-ONE platform. Solutions such as ONEView and Process Insight help manufacturers correlate inspection data, monitor production performance and identify trends that can affect quality and yield.

By connecting SPI, AOI and AXI data, manufacturers can gain greater visibility into relationships between process conditions and downstream defects. These insights can support more informed decision-making, predictive quality management and closed-loop process adjustments.

ViTrox is also advancing AI-enabled manufacturing through intelligent analytics and autonomous optimization capabilities designed to support more adaptive, connected and human-centric production environments. The goal is to help manufacturers improve process consistency, reduce waste and respond more effectively to changing production requirements.

"Manufacturers need more than individual inspection systems; they need connected technologies that turn inspection results into meaningful improvements across the production process," said Sy Creed, Business Development Director, ViTrox Americas. "By combining AI-driven SPI, AOI, AXI and robotic vision with manufacturing intelligence, we aim to help customers strengthen quality control, gain greater process visibility and move toward smarter, more adaptive manufacturing."

For more information, visit www.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.