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ViTrox Partners with Maxim SMT to Present AI-Powered Vision Inspection Solutions at SEMICON India and Productronica India 2025

Penang, Malaysia – July 2025 – ViTrox, which strives to be the World’s Most Trusted Technology Company, is proud to announce its participation alongside our esteemed Sales Channel Partner (SCP), Maxim SMT, at two of India’s leading electronics manufacturing exhibitions – SEMICON India 2025, taking place from **2 - 4 September** at Yashobhoomi (IICC), New Delhi (**Booth #1132**), and Productronica India 2025, held from **17–19 September** at the Bangalore International Exhibition Centre (BIEC), Bengaluru (**Booth #H4 F11**).

SEMICON India 2025: Introducing Advanced Packaging Inspection Solutions

At SEMICON India, ViTrox will highlight its Smart 3D AOI Solutions for Advanced Packaging and Microelectronics:

[V510Ai Smart 3D AOI Solution for Advanced Packaging and Microelectronics](#) - This high-speed inspection system features a 25MP Vision System with Real 3D measurement capabilities, delivering superior image clarity and precision. It offers unique inspection coverage for advanced packaging applications, such as lead frame inspection, wire bond inspection, solder bump inspection, die & underfill inspection, and mirror/reflective component. Enhanced with Artificial Intelligence, ViTrox Smart 3D AOI Solution ensures accurate, reliable and consistent defect detection in complex advanced packaging applications.

ViTrox's dedicated sales and technical experts will be present at Maxim SMT's booth to demonstrate the Smart 3D AOI Solution's outstanding features and performance capabilities.

Productronica India 2025: Highlighting ViTrox Next-Generation Inspection Systems

At Productronica India, ViTrox is excited to highlight its latest New Product Introductions (NPIs), engineered to elevate quality, efficiency, and intelligence in the SMT PCB assembly inspection processes:

[Award-Winning V510Ai DST Smart 3D AOI System](#) - An advanced dual-sided inspection system designed for both SMT and THT processes. The V510Ai DST supports simultaneous dual-sided (top-and-bottom) inspection with a 100mm top clearance, making it ideal for PCBs with high top-clearance requirements. With four configurable angular vision cameras, the system also enables side-view inspection and Optical Character Verification (OCV) for components with partially hidden joints and side surface Optical Character Verification (OCV) inspection. It is further strengthened by built-in A.I. capabilities, including **A.I. Smart Programming, A.I. Recipe Quality Control** and **an autonomous A.I. Defect Review and Buyoff station**. These capabilities reduce manual setup effort and accelerate inspection deployment.

Another highlight will be the **V810Ai QX1 Smart 3D AXI System**, a next-generation, high-resolution inline 3D X-ray Inspection (AXI) solution tailored for accurate defect detection for miniature and complex electronic components. With advanced A.I. integration, hardware, and intuitive software, this system enhances inspection coverage, throughput, and process traceability across diverse applications.

In addition, ViTrox will highlight the **[V510Ai R Smart Robotic Optical System](#)**. Equipped with 6-axis industrial robotic arms, this flexible system is designed to perform high-precision and automated inspection for conformal coating and final assembly processes. It is ideal for inspecting partially hidden parts and performing high-quality coating inspection, ensuring superior defect detection across multiple manufacturing challenges.

ViTrox warmly invites all industry professionals and partners to visit our booths and explore how our intelligent vision solutions can empower smart manufacturing, enhance production efficiency, and strengthen quality control processes.

Don't let technical challenges stand in your way! ViTrox's specialist team will be on-site and ready to answer your questions about our solutions. To connect with us, schedule an appointment by clicking the [link](#) or scanning the QR code below.



Contact us via enquiry@vitrox.com for more information. We look forward to meeting you there!

About ViTrox Technologies

ViTrox is committed to being the World's Most Trusted Technology Company and the leading solutions provider by integrating ViTrox's technologies, people, and strategic alliances to provide its customers with the most innovative, advanced, and cost-effective machine vision solutions of excellent quality.

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.