

MIRTEC

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MIRTEC Receives Global Technology Award for ART 3D AOI System at productronica 2025

November 2025 – MIRTEC, the 'Global Leader in Inspection Technology', is proud to announce groundbreaking 3D AOI System ART has been honored with the 2025 Global Technology Award in the category of AOI Inspection. The award was presented at productronica in Munich on Tuesday, November 18, 2025.

MIRTEC's flagship Anti-Reflection Technology (ART) 3D AOI System is the world's first 95MP Multi-Camera / Full HD 12 Projection inspection platform. Equipped with five high resolution cameras and four Full HD digital projectors, the system delivers unprecedented accuracy for inspecting highly reflective objects such as solder joints—an area where conventional AOI systems have long struggled.

The breakthrough lies in ART's innovative optical architecture. Conventional AOI solutions often rely on algorithms to fill in data lost due to specular reflections or blind spots caused by component structures. ART resolves these limitations by capturing 3D data from multiple directions, ensuring that solder joints are inspected entirely on the basis of actual measured data. Even when reflections or blind spots prevent the top-down camera from capturing accurate results, ART's side cameras seamlessly fill in the gaps, enabling comprehensive inspection without compromise.

Built for 24/7 production environments, ART boasts a mean time between failures of over 4,000 hours, ensuring stable and consistent performance in high-volume operations. Its versatility extends across a range of applications, from solder joints to reflective surfaces, and it can meet stringent requirements such as IPC Class 3. At the same time, ART's intuitive programming software simplifies setup, generating inspection programs in under 15 minutes, and its advanced algorithms and high-speed cameras maintain rapid throughput without sacrificing precision.

"By addressing the long-standing challenges of specular reflection and blind spots, our system ensures every solder joint is accurately measured and inspected," said Chanwha Pak, MIRTEC CEO. "This award recognizes not just our innovation, but also our ongoing dedication to helping manufacturers maintain the highest standards of quality."

Since 2005, the prestigious Global Technology Awards have recognized the absolute best new innovations in the printed circuit assembly and packaging industries. It brings together the global SMT and advanced packaging industry in a celebration of the companies and people that are achieving the highest standards and driving our industry forward. For more information, visit www.globalsmt.net.

MIRTEC is a Leading Global Supplier of Automated Inspection Systems to the Electronics Manufacturing Industry. For further information about MIRTEC's innovative inspection solutions and their participation in at productronica Germany 2025, please visit <https://mirtec.com>

