

A solution for advanced quality control for manufacturing

Smart AOI

Smart AOI (Automated Optical Inspection) leverages AI computer vision for automated defect detection across diverse manufacturing applications. This intelligent model management software enables rapid training of accurate models with real-time validation. The system combines automated inspection with robotic technology, achieving over 95% accuracy while minimizing human error.¹

Smart AOI serves different defect inspections, including electronic and precision parts manufacturing. The solution helps reduce costs, increases throughput, and enhances product quality through seamless integration.



Key Intel-Enabled Features



Automated Inspection



Rapid Model Training



Increased Throughput



Seamless Integration

Powered by Intel® Core™ Ultra Processors with Intel® Arc™ GPU and optimized with OpenVINO™ Toolkit, Smart AOI delivers:

- AI-powered defect detection, with accurate, real-time results
- OpenVINO toolkit optimizes model training and validation, allowing Smart AOI to quickly adapt to new defect types
- Edge deployment ensures seamless integration with existing manufacturing lines

Intel Products and Technologies

- [Intel® Core™ Ultra Processors](#)
- [OpenVINO™ Toolkit](#)
- [Intel® Arc™ GPU](#)

“OpenVINO™ toolkit optimizes our Smart AOI inference speed, achieving 95%+ accuracy and reducing labor costs.”

Tony Lee
CEO, Global Instrument Technology

Ordering Guidance:

- [Smart AOI \(Automated Optical Inspection\)](#)

Country/Geo: Asia Pacific & Japan

Edge/Cloud Verticals: Agriculture/Cross Industry/Manufacturing and Industrial/Medical

Edge/Cloud Use Cases: Asset & Operations Optimization/Product Inspection

AI Workload: Computer Vision

Learn more:

- [Global Instrument Technology Inc.](#)

Notices & Disclaimers:

Intel technologies may require enabled hardware, software or service activation. // No product or component can be absolutely secure. // Your costs and results may vary. // Intel Statement on Product Usage: Intel is committed to respecting human rights and avoiding causing or contributing to adverse impacts on human rights. See Intel's [Global Human Rights Principles](#). Intel's products and software are intended only to be used in applications that do not cause or contribute to adverse impacts on human rights. © Intel Corporation, Intel, the Intel logo, Intel Core, and other Intel marks are trademarks of Intel Corporation or its subsidiaries. Other names and brands may be claimed as property of others.

¹Intel does not control or audit third-party data. You should consult other sources to evaluate accuracy.