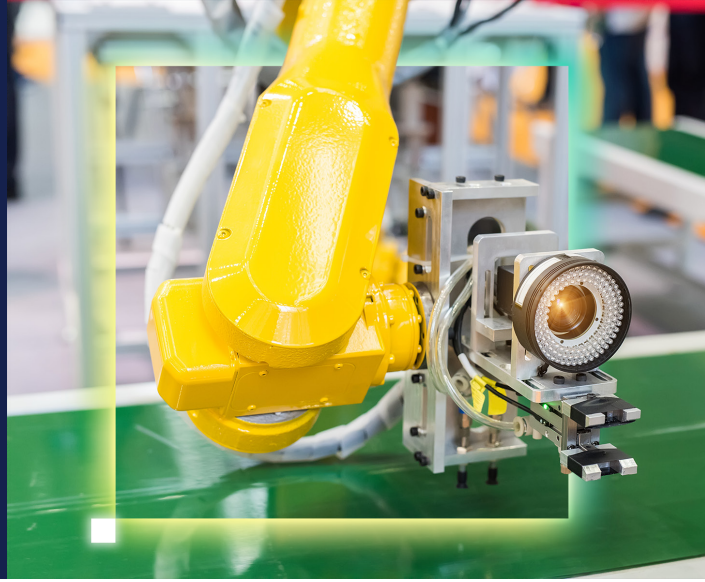


Factory-Ready Edge AI Platform for Anomaly Detection

ARCeye



By leveraging Intel® technologies, ARCeye by Circulus, onboarded to ASRock Industrial NUCS BOX-255H, helps manufacturers overcome costly GPU dependencies and limited defect data, enabling scalable automated visual inspection with faster deployment, lower infrastructure costs, and improved quality control.

ARCeye, developed by Circulus, is a factory-ready on-device anomaly and defect detection solution built for real-world manufacturing environments where quality, speed, and cost efficiency are critical. Onboarded to the compact and high-performance ASRock Industrial NUCS BOX-255H system, this solution delivers real-time visual inspection directly at the edge, eliminating the need for cloud connectivity or discrete GPUs. By integrating ARCeye advanced software with this compact, Intel-powered system, the solution delivers secure, low-latency, and energy-efficient on-device computing to enhance industrial safety and automation across smart manufacturing environments.

Utilizing Anomalib, ARCeye learns normal production patterns from unlabeled images to enable rapid deployment even with limited defect data. Powered by Intel® Core™ Ultra Processors, it optimizes inference across integrated CPU, iGPU, and NPU resources via the OpenVINO™ toolkit and oneAPI Deep Neural Network Library (oneDNN). With Deep Learning Streamer pipelines ensuring seamless integration with industrial cameras for continuous line-speed inspection, ARCeye successfully reduces defect leakage and lowers operational costs.

ARCeye by Circulus delivers on-device AI anomaly detection, enabling manufacturers to identify defects faster, reduce defect leakage, and scale visual inspection without cloud dependence or dedicated GPUs.

Intel Products & Technologies Accelerating AI and analytics at the edge



[Intel® Core™ Ultra
Series 3 Processors](#)



[Intel® Arc™ Pro
B-Series Graphics](#)



[OpenVINO™ Toolkit](#)



[Intel® oneAPI
Toolkit](#)



[Intel® Geti™](#)

Key Intel-Enabled Features

Real-Time AI and analytics make it easy



Real-Time Edge AI



Dual Vision Accuracy



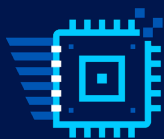
Anomaly Detection



Low-Latency Inference

Powered by Intel® processors and optimized with the OpenVINO™ toolkit, Circulus and ASRock Industrial deliver:

01



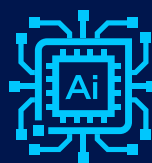
Intel® iGPU and NPU
enable real-time AI
defect detection

02



Anomalib enables
accurate unlabeled
learning

03



OpenVINO™ and
oneDNN optimize
defect inspection AI

04



DL Streamer ensures
continuous line
inspection

That's the power of Intel Inside®.

Country/Geo:

US/Canada
Asia Pacific, Japan, Australia
and New Zealand

Verticals:

Manufacturing

Use Cases:

Quality Control: Anomaly
Detection, Quality Inspection

About Circulus

Circulus develops ARCeye, an on-device anomaly and defect detection solution for smart manufacturing. Operating directly at the edge without cloud or discrete GPUs, ARCeye delivers real-time visual inspection and rapid deployment. Powered by Intel technologies, it helps manufacturers minimize defect leakage, lower costs, and scale automated quality control.

arceye.circul.us/

[ARCeye - Edge AI Partner Spotlight](#)

intel ai

Intel® AI Edge Applications

About ASRock Industrial

Founded in 2018, ASRock Industrial focuses on industrial motherboards, edge computers, and AIoT solutions for B2B markets worldwide. A global leader in Industrial PC motherboards, it emphasizes R&D, customization, and partnerships to deliver high-performance, flexible solutions across CARES industries and aims to lead in AIoT innovation.

www.asrockind.com/en-gb/

[ASRock NUCS BOX-255H -
Edge AI Partner Spotlight](#)

intel ai

Intel® AI Edge Systems

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