circulus × intel

Factory-Ready Anomaly Detection System

ARCeye

Real-time, edge-based defect detection with rapid deployment from normal data— ***no cloud, no GPUs required.***

ARCeye is an on-device anomaly and defect detection solution designed for real-world manufacturing environments where quality, speed, and cost efficiency are critical. Built for deployment on Intel® Core™ Ultra processors, ARCeye delivers real-time visual inspection directly at the edge, eliminating the need for cloud connectivity or discrete GPUs.

Using Anomalib, the system learns normal production patterns from unlabeled images, enabling rapid deployment even when defect data is limited or unknown. Models are accelerated with Intel® oneAPI Deep Neural Network Library (oneDNN) and optimized through OpenVINO™ to achieve low-latency, energy-efficient inference on integrated CPU, GPU, and NPU resources.

Deep Learning Streamer enables seamless integration with industrial cameras and production systems, supporting continuous, line-speed inspection. ARCeye helps manufacturers reduce defect leakage, lower operational costs, and scale AI-based quality control with confidence.

intel ai
Intel® AI Edge Applications

Key Intel-Enabled Features

- Real-Time Edge AI
- High Accuracy with Dual Vision
- Anomaly Detection
- Low-Latency Inference

Accelerate Business Transformation with Optimized, Ready-to-Deploy, Intel-Powered AI Partner Solution

- Edge-based, real-time defect detection on Intel® Core™ Ultra iGPU & NPU
- Label-efficient anomaly detection using Anomalib
- Optimized performance with oneDNN and OpenVINO™
- Factory-ready integration via DL Streamer pipelines

Intel Products and Technologies

- Intel® Core™ Ultra Processors
- OpenVINO™ Toolkit
- Intel® oneAPI Deep Neural Network Library (oneDNN)
- Deep Learning Streamer

Ordering Guidance:

- Contact Us

Country/Geo: Worldwide

Edge Verticals: Manufacturing & Robotics

Edge Use Cases: Quality Control; Anomaly Detection

Learn more:

- ARCeye
- Circulus Website

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