boon × intel.

Edge AI Defect Detection for Pharma Manufacturing

DAI 50 Powered by AVIS



*AVIS by Boon Logic is an AI-native inspection system that **learns normal product variation without labeled defect data.***

AVIS is Boon Logic's edge AI solution for real-time visual defect detection in pharmaceutical manufacturing. Powered by Boon's patented Nano engine, it learns normal production patterns directly from unlabeled data to identify subtle defects that traditional rule-based systems often miss.

Running on-site on Intel® Xeon® processors, AVIS uses OpenCV-based imaging workflows optimized with Intel® oneAPI Toolkit to deliver low-latency inspection without GPUs or cloud dependency. Keeping data within the facility supports strict data-residency and audit requirements. Validated inspection recipes are locked to ensure consistent, drift-free performance.

Benefits include improved defect detection, higher throughput, virtually eliminating manual inspection, and audit-ready validation records.

intel ai
Intel® AI Edge Applications

Key Intel-Enabled Features

Air-Gapped AI

No-Label AI Learning

GPU-Free

Scalable Deployment

- Intel® Xeon® processors enable low-latency, air-gapped inspection for regulated manufacturing environments.
- OpenCV replaces standard vision and deep learning functions with high-performance hardware-accelerated libraries.
- Intel Xeon processors deliver real-time defect detection without GPU cost, complexity, or power draw.
- OpenCV workflows optimized with Intel® oneAPI Toolkit to accelerate image analysis.

avis

By leveraging Intel® technologies, AVIS by Boon Logic reduces false rejects, minimizes costly reinspection, and scales defect detection beyond the limits of manual inspection.

Ordering Guidance:

- Contact Us

Country/Geo: Worldwide

Edge Verticals: Manufacturing & Energy

Edge Use Cases: Quality Control; Operational Efficiency; Anomaly Detection; Quality Inspection; Process Optimization

Learn more:

- Boon Logic Inc. Website

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