

Real-Time Defect Detection for Smart Manufacturing

Knit-I Insight



COUNT AI X ASUS X intel.

Knit-I Insight is an edge AI surface inspection platform that detects material defects in real time—at 0.1mm resolution, with sub-50ms response—directly on the production line. It turns continuous-process manufacturing into a traceable quality system.

Deployed across 400+ production lines in 6 countries, Knit-I Insight uses computer vision models trained on billions of real-world surface samples to identify defects, trigger immediate machine response, and log every event with full audit traceability. Manufacturers cut material waste by up to 95% and recover investment in under 8 months¹—across textiles, non-wovens, packaging, plastics and rubber.

Knit-I Insight runs on the ASUS NUC 14 Pro with Intel® Core™ Ultra processors and with built-in support for the OpenVINO™ toolkit. The compact edge system delivers enterprise-grade AI inference on the factory floor—24/7, with zero cloud dependency.

Edge AI surface inspection at 0.1mm, sub-50ms—cuts waste up to 95% with ROI in under 8 months.¹

Intel Products & Technologies

Accelerating AI and analytics at the edge



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



[Intel® Core™ Processors](#)



[Intel® Xeon® Scalable Processors](#)



[Intel® Arc™ Graphics](#)



[OpenVINO™ Toolkit](#)



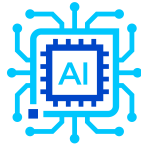
[Intel® Deep Learning Boost](#)

Key Intel-Enabled Features

Real-Time AI and analytics make it easy



Real-Time Detection



Edge-Native AI



Full Traceability



Retrofit-Ready

Powered by Intel Processors and optimized with the OpenVINO™ toolkit, CountAI and ASUS deliver:

01



High-resolution vision inference on-device

02



Real-time detection at the edge

03



Low-power edge compute footprint

04



Scalable multi-line factory deployment

That's the power of Intel Inside.

Country/Geo:

Worldwide

Verticals:

Video Safety & Critical Infrastructure
Transportation
Manufacturing
Robotics

Use Cases:

Smart Buildings; Intrusion Detection;
Quality Control; Operational Efficiency;
Worker Safety; Quality Inspection;
Process Optimization; Airports
Infrastructure; Vision Guided Robots

About CountAI

CountAI builds edge AI and computer vision systems for real-time industrial inspection. Founded by engineers from IIT Madras, Toyota, and Philips, CountAI has deployed 400+ production-grade AI systems across 6 countries. Its platform serves manufacturers in text packaging, non-wovens, rubber, and other continuous-process industries worldwide.

www.counton.ai

[KNIT-i Insight - Edge AI Partner Spotlight](#)

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Intel® AI Edge Applications

About ASUS

ASUS is a global technology company driven by innovation and passionate about enhancing digital life. It designs and delivers a broad range of products and solutions that empower people and organizations, combining cutting-edge engineering, quality, and sustainability to create intuitive, reliable experiences for users worldwide.

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[ASUS NUC 14 Pro - Edge AI Partner Spotlight](#)

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Intel® AI Edge Systems

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