

Eliminate Textile Defects in Real-Time With AI-Powered Vision Systems

KNIT-i Insight

Human-led inspection often misses defects in circular knitting – causing wasted fabric, delays, and lost customer trust. Count AI's KNIT-i transforms inspection by embedding AI directly into knitting machines.

Using high-resolution IP65-rated cameras and a rugged Intel® Edge compute box, KNIT-i monitors every inch of fabric in real time. Defects such as elastane issues, cotton variations, needle lines, and holes are detected early, allowing immediate correction before waste escalates. Each event is logged with machine, operator, and shift data for full traceability. Supervisors gain actionable insights through AI-powered dashboards, including automatic grading across 150+ fabric types.

Built for harsh factory environments, KNIT-i delivers reliable, high-speed performance to help manufacturers reduce waste, improve delivery timelines, and protect customer satisfaction.



Trained on 150+ fabric types, KNIT-i adapts to diverse textile environments.

Key Intel-Enabled Features



AI-Enhanced
Defect Detection



Automated
Fabric Grading



Traceable
Defect Logs

Powered by Intel® Core™ Ultra processors and optimized with OpenVINO™ Toolkit and DL Streamer, Count AI's KNIT-i delivers:

- Real-time defect detection through fast AI inference on integrated GPU
- Automated fabric grading enabled by efficient INT8 precision models
- Scalable edge deployment supported by Intel's Open Edge Platform and dynamic power scaling via p_state driver

Intel Products and Technologies

- [Intel® Core™ Ultra Processors](#)
- [OpenVINO™ Toolkit](#)
- [Intel® Deep Learning Streamer](#)

Ordering Guidance:

- [Count AI | KNIT-i Insight](#)

Country/Geo: Europe, Middle East, and Africa; Asia Pacific, Japan, Australia & New Zealand; India

Edge Vertical/Industry: Manufacturing & Robotics

Edge/Use Cases : Quality Control, Quality Inspection

Learn more:

- [Count AI Website](#)

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