

Smart Retail Edge AI for Autonomous Store Experiences

Smart Retail Edge AI

Smart Retail Edge AI by Vision Group transforms unattended retail assets into intelligent, autonomous points of sale by bringing computer vision and AI inference directly to the edge.

Running on Intel® Core™ processors with integrated GPU and NPU acceleration, and optimized with the OpenVINO™ toolkit, the solution delivers fast, accurate SKU recognition, transaction validation, and real-time analytics without reliance on constant cloud connectivity. This enables seamless “open, pick, pay, and go” experiences while improving inventory visibility, reducing shrinkage, and enhancing operational efficiency. By combining edge processing with centralized cloud insights, retailers and operators can scale smart coolers, vending, and micro-markets with greater accuracy, lower costs, and new opportunities for in-the-moment consumer engagement and revenue growth.



Transform retail with edge AI for real-time recognition, frictionless checkout, and scalable smart operations.

Key Intel-Enabled Features



Real-Time Edge AI Power



Accurate SKU Detection



Low-Latency Processing



Scalable Retail Insights

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

- Intel® Core™ Ultra CPU, GPU, and NPU enable fast, local AI inference.
- Intel® Arc™ graphics accelerate vision models for precise recognition.
- OpenVINO™ optimizes models for fast response without cloud delays.
- Intel platforms combine edge compute with efficient data handling.

Intel Products and Technologies

- [Intel® Core™ Processors](#)
- [Intel Atom® Processors](#)
- [OpenVINO™ Toolkit](#)
- [Open Edge Platform](#)

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Ordering Guidance:

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Country/Geo: Worldwide

Edge Verticals: Video Safety & Critical Infrastructure; Retail; Education

Edge Use Cases: Public Safety & Enterprise Security; Video Analytics; Self-Checkout; Loss Prevention; Order Accuracy; Product Recognition; Fake Scans; Shopper Behavior

Learn more:

- [Vision Group Website](#)
- [Autonomous Retail by Vision Group](#)