

# Al for Manufacturing, Without Deep Learning or GPUs

## **Predictive Maintenance**

iOmniscient's Predictive Maintenance solution leverages proprietary intuitive AI to detect early signs of equipment failure—without relying on deep learning or GPUs. By analyzing multisensory inputs such as video, sound, and smell, the system identifies anomalies like overheating, wear and tear, or leaks across diverse assets including pumps, motors, and conveyor belts.

Its lightweight architecture and QUICK
Training engine require minimal data—at most
10 samples of the equipment in normal
operation—to build effective models, enabling
rapid deployment and cost efficiency.
Optimized for Intel® Core™ processors and
Intel® Xeon® servers, the solution delivers
scalable, real-time fault detection with reduced
power consumption and bandwidth usage,
making it ideal for industrial environments
seeking smarter, sustainable operations.



## **Key Intel-Enabled Features**









Efficient Al --No GPUs,
No Heavy
Compute,
No Problem

Powered by Intel® Core™ processors and Intel® Xeon® servers, iOmniscient's predictive maintenance system enables:

- Real-time detection with high-performance CPUs for instant fault identification
- Multi-sensor fusion supported by scalable compute for complex data processing
- Low power operation using efficient CPU architecture to reduce energy demands
- Rapid model training accelerated by evolving Intel CPU capabilities

## Ordering Guidance:

Contact Us

Country/Geo: Worldwide

**Edge Vertical/Industry:** Transportation; Manufacturing & Robotics

**Edge/Use Cases:** Predictive Maintenance, Quality Control; Operational Diagnositcs

#### Learn more:

• iOmniscient Website

#### **Intel Products and Technologies**

- Intel® Core™ Processors
- Intel® Xeon® Servers

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