

Accelerating Aircraft Maintenance with Intelligent Inspection

AeroInspect - Smart Aircraft Inspection System

AeroInspect is an AI-powered aircraft inspection solution that helps aerospace maintenance, repair, and overhaul (MRO) organizations improve inspection accuracy, consistency, and efficiency.

Running at the edge on Intel® Core™ Ultra Series 3 processors and Intel® Core™ Processors, AeroInspect uses computer vision and depth-based analysis to automatically detect, measure, and classify surface defects such as dents, scratches, corrosion, and wear. The solution delivers objective, micron-level measurements and standardized severity assessments, reducing dependence on manual visual inspections and inspector subjectivity.

By automating defect identification, documentation, and reporting, AeroInspect helps organizations accelerate inspection cycles, improve regulatory compliance and traceability, and support faster maintenance decisions while reducing operational costs.



Key Intel-Enabled Features



AI Defect Detection



Precision Measurement



Edge AI Processing



Automated Reporting

- [Intel® Core™ Ultra Series 3 processors](#) and [Intel® Core™ Processors](#) leverage integrated CPU, GPU, and NPU to accelerate real-time aircraft inspection workflows.
- [OpenVINO™ toolkit](#) optimizes computer vision inference for fast, efficient defect detection, measurement, and classification.
- [Intel® SceneScape](#) enables depth-based analysis to support precise defect measurement and severity assessment.
- [Manufacturing AI Suite](#) components, including OpenVINO™ toolkit and [Deep Learning Streamer](#), enable automated inspection workflows and reporting.

By leveraging Intel® technologies, AeroInspect automates aircraft and component inspections, enabling faster defect detection, precise damage assessment, and consistent, traceable maintenance outcomes.

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AeroInspect improves inspection accuracy, reduces turnaround times, and strengthens traceability with edge AI built on Intel's Manufacturing AI Suite.

Ordering Guidance:

- [Contact Us](#)

Country/Geo: Worldwide

Edge Verticals: Transportation; Manufacturing; Federal and Aerospace

Edge Use Cases: Fleet Management; Airports Infrastructure; Anomaly Detection; Predictive Maintenance; Operational Diagnostics

Learn more:

- [Tata Technologies LTD. Website](#)