MSAI Connect

PLATFORM DATASHEET

THE CONDITION INTELLIGENCE PLATFORM FROM MULTISENSOR AI

MultiSensor AI is a multi-sensor condition intelligence solution for highly automated, power-dense, and uptime-critical industrial facilities. MSAI Connect is the software platform behind it: the intelligence layer that unifies thermal, visual, and vibration sensing into one asset-level workflow above existing sensors and control systems. Available in IR-only and IR + vibration configurations.

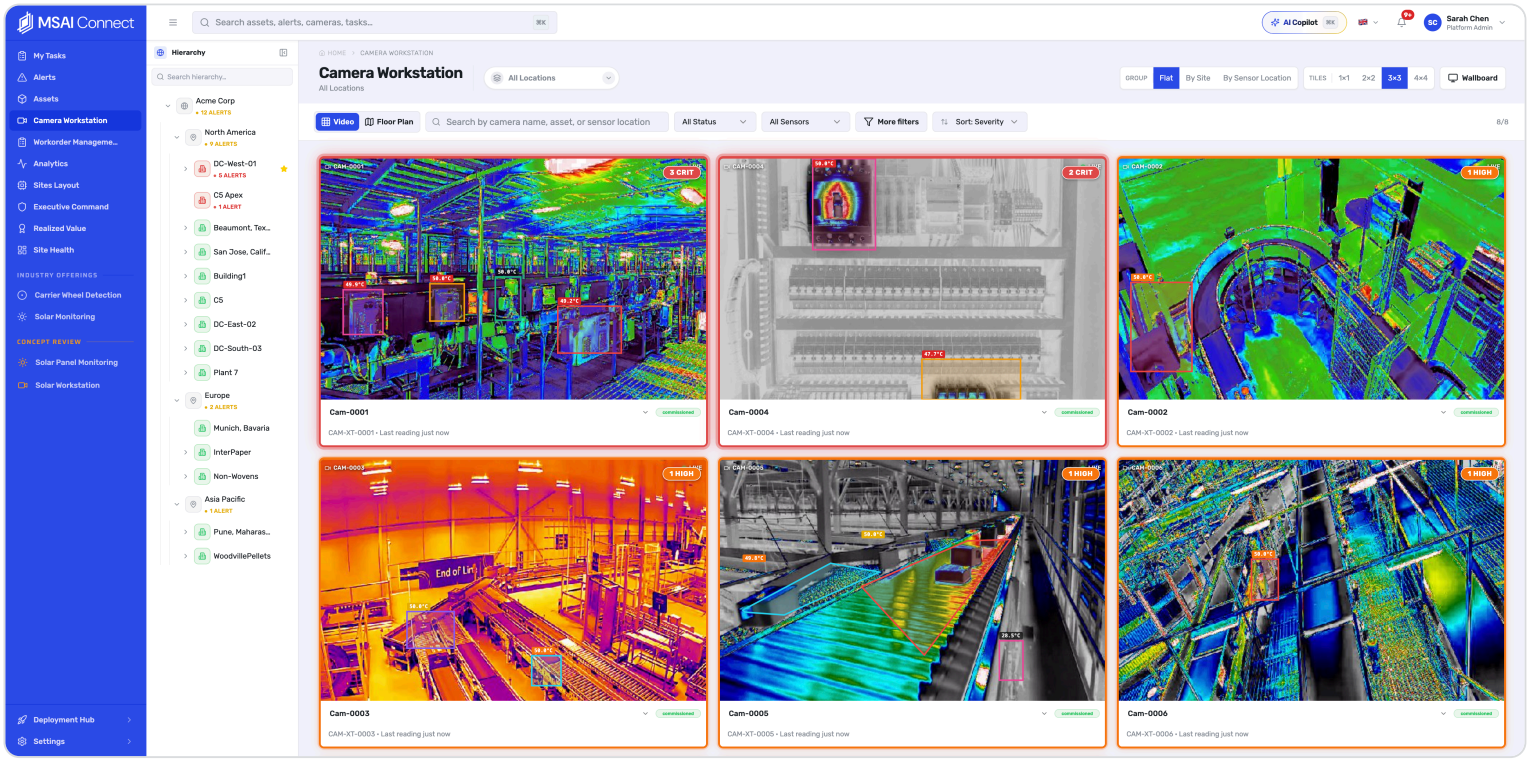
24/7
Continuous fixed-mount sensing; no inspection route

40% lower
Maintenance spend at a Fortune 50 distribution facility, with 30% less downtime and 11.4× throughput

Hours to days
Advance warning before failure

INSIDE THE PLATFORM

MSAI Connect · Condition Monitoring Workstation



1 Enterprise comparative intelligence
Cross-asset and cross-site benchmarking, fleet-wide anomaly comparison, and risk-prioritized alert routing.

2 Fixed-mount radiometric thermal
Continuous quantitative temperature on asset-specific regions of interest. Radiometric, not colorized.

3 Continuous condition intelligence
24/7 persistent monitoring across assets and time, with historical trending and threshold-based deviation visibility.

WHAT'S INCLUDED

Sensor hardware
Fixed-mount thermal and visual units; vibration sensors included with IR + Vibration configurations.

The MSAI Hub
On-site edge processing device.

MSAI Connect
The platform that processes multi-sensor data and delivers condition intelligence.

Expert-guided commissioning
Calibration and deployment support.

HOW IT WORKS

From sensor to work order in five steps.

01 SOURCE
Fixed thermal, visual, and vibration sensors capture condition continuously on defined ROIs.

02 CONNECT
The MSAI Hub ingests over ethernet, processes at the edge, transmits encrypted.

03 COLLECT
MSAI cloud or on-premises, over LAN, Wi-Fi or cellular.

04 ANALYZE
Baseline modeling, trending, cross-modal correlation, confidence scoring, alerting.

05 OUTPUT
Work orders into CMMS or EAM. Alerts into SCADA, DCS or PLC. Faults linked to footage in VMS.

DEPLOYMENT RESPONSIBILITY

CUSTOMER OWNS · STEPS 01–02
Mounting, installation, power, network.

MSAI OWNS · STEPS 03–05
Commissioning of software, hardware and output integrations.

ALL STEPS · ONE-WAY
Data flows one way. Nothing in this path writes to control logic or protection schemes.

SPECIFICATIONS

Sensing modalities	Fixed-mount radiometric thermal (IR), visual, and vibration. Available in IR-only and IR + vibration configurations.
Thermal measurement	Continuous quantitative temperature on asset-specific regions of interest. Radiometric, not colorized. Live and historical trending.
Vibration sampling	Under 1 second during active vibration, 10 seconds when idle; always-listening detection for rapid events. ISO-based thresholds by asset class and criticality.
Edge processing	The MSAI Hub, an on-site device that ingests over ethernet, processes locally and transmits encrypted.
Hosting & connectivity	MSAI cloud or on-premises. LAN, Wi-Fi, or cellular. Multi-site deployment architecture.
Analytics	AI baseline modeling and deviation detection, failure progression tracking, cross-modal correlation, confidence scoring, comparative component analysis.
Alerting	Threshold and deviation-based triggering with automated escalation routing. Email, SMS, phone, and integrations.
Integrations	Work orders into CMMS or EAM. Alerts into SCADA, DCS, or PLC. Faults linked to footage in VMS. Augments existing systems; not a system of record.
Commissioning	Expert-guided calibration of regions, thresholds, and asset classes with the MSAI reliability team.

APPLICATIONS

ASSETS

- Sorters, conveyors, and MCCs
- Switchgear and panels
- VFDs and control cabinets
- Motors, bearings, and rollers
- Pumps, compressors, and chillers
- UPS and power distribution

INDUSTRIES

- E-commerce and retail distribution
- Couriers and express parcel
- Data centers
- Cold storage and food and beverage
- Airport operations

We close the visibility gap. That means earlier detection of degradation, and time to get ahead of unexpected, high-cost failures.

Condition intelligence: the continuous layer between sensor data and maintenance action. Not a CMMS, and not a camera system.

BOOK A DEMO