iOmniscient

iQ-SMART MANUFACTURING & WAREHOUSES

Safety, operational efficiency and logistics across factories and warehouses



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Manufacturing & Warehouse Coverage

Multi-sensory AI across production, storage and distribution

MANUFACTURING

- Batch and continuous processes
- Heavy and light manufacturing

ENGINEERING & UTILITIES

- Chemical and mechanical engineering sites
- Electricity, water and waste treatment



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Worker Safety

Detect hazards around people and machinery

PERSONAL PROTECTIVE EQUIPMENT

Check that workers wear helmets and fluorescent jackets.

SLIPS & FALLS

Detect slips and falls, including falls from height.

NOISE CONTROL

Monitor noise from grinders and compressors.



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Facility Safety & Evacuation

Monitor environmental hazards and evacuation conditions

CHEMICAL HAZARDS, GAS & FIRE

Detect chemical smells, gas leaks, smoke and fire, including large indoor and outdoor areas.

SPILLS & UNSAFE OBJECTS

Detect water or other liquid spills and objects placed in unsafe areas.

OCCUPANCY RESTRICTIONS

Detect overcrowding in areas with occupancy limits.

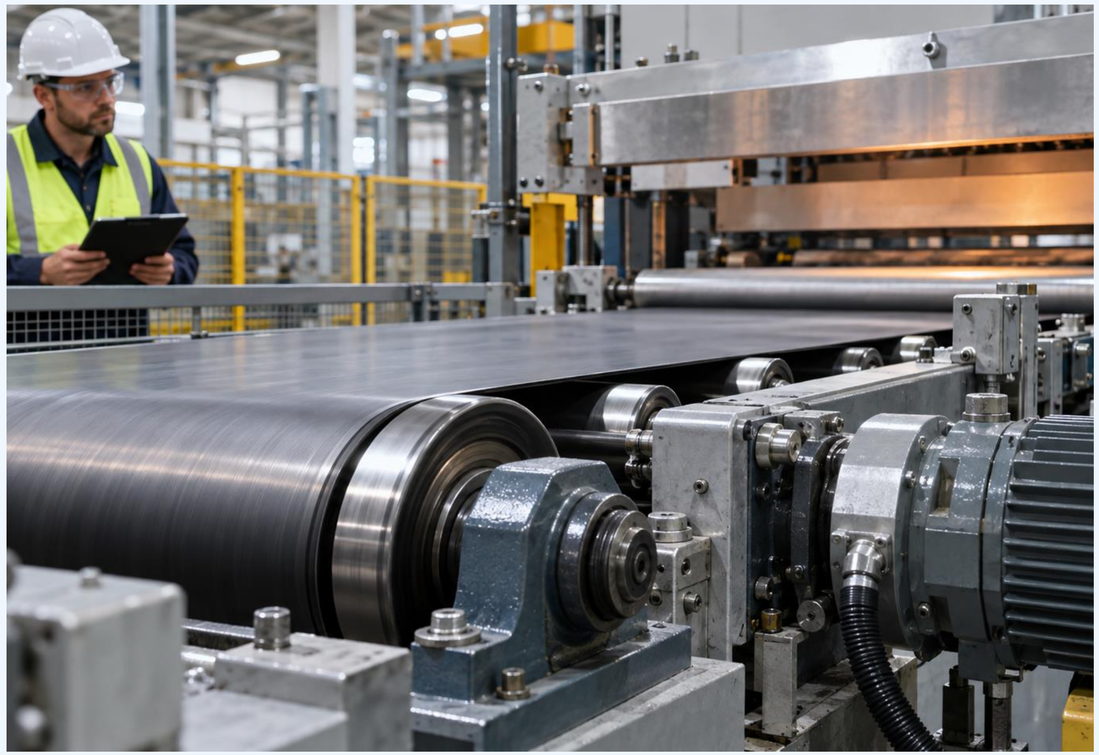
EVACUATION MANAGEMENT

Measure people on each floor and understand crowd movement to guide emergency evacuation.

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Preventive Maintenance

Identify equipment interruptions and overheating



CONVEYOR BELTS

Detect conveyor belts that stall or stop working.

EQUIPMENT TEMPERATURE

Detect overheating equipment.

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Quality Control

iOmniscient’s multi-sensory AI technology helps ensure product quality

DEFECT DETECTION

Check products for defects.

COLOR & SIZE INSPECTION

Check product quality based on color and size.

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Operational Efficiency

Understand how people use manufacturing and warehouse spaces

TIME IN DIFFERENT LOCATIONS

Understand how long people spend in different locations.

RESTRICTED AREAS

Track how long staff spend in restricted areas.

PUBLIC & SHARED AREAS

Measure average time spent in areas such as cafeterias and when those areas are used.

STAFF ATTENDANCE

Manage staff attendance and performance.

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Occupancy & Resource Planning

Use occupancy and traffic information to support site operations

LIGHTING & HVAC

Control lighting and HVAC systems based on occupancy.

TRAFFIC FLOW

Understand traffic flow to improve resource planning before major events.

PEOPLE MOVEMENT

Understand crowd movement across the facility.



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Logistics & Distribution

Manage goods, vehicles and activity in loading areas



GOODS IN TRANSIT

Track goods lost in shipment.

PERISHABLE GOODS

Identify perishable goods left on loading docks.

LOADING-AREA ACTIVITY

Measure how long vehicles stay in loading areas.

PARKING & ACCIDENTS

Manage car parks and detect accidents.

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Vehicle & Personnel Access

Control access to facilities, vehicles and critical areas

AUTHORIZED VEHICLES

Allow automatic access for authorized vehicles, including loading and unloading access.

DRIVER MATCH

Ensure only authorized people drive designated vehicles, especially on exit.

PERSONNEL ACCESS

Provide contactless, databaseless access management and prevent tailgating.

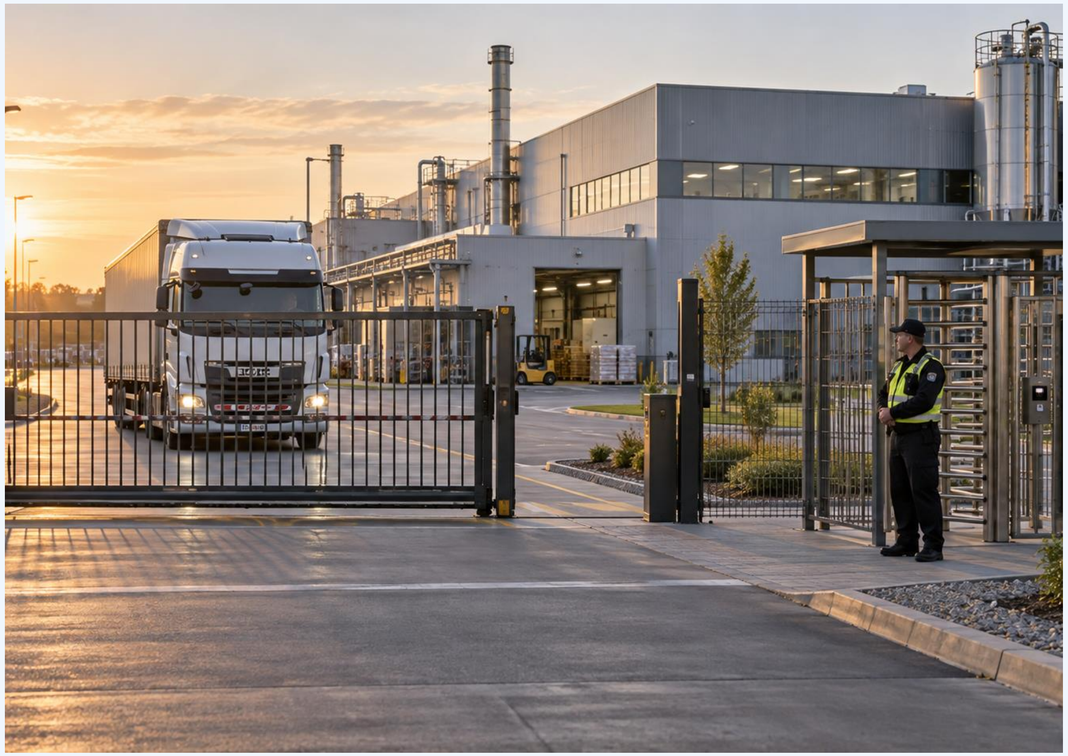
CRITICAL AREAS

Manage access to critical areas of the facility.

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Security & Asset Protection

Monitor facility boundaries, unauthorized activity and critical items



INTRUSION

Detect intrusion, including after hours, and determine the intruder’s identity.

UNAUTHORIZED GATHERINGS

Detect crowds in unauthorized areas or after hours.

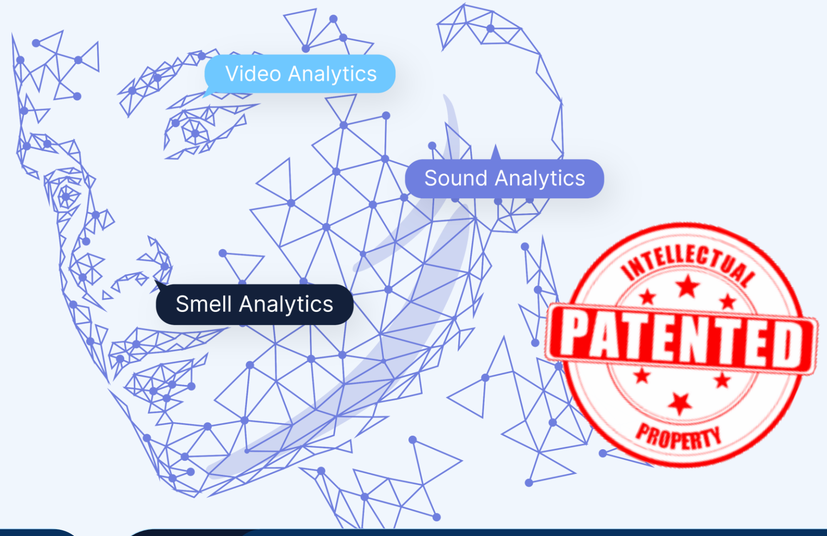
THEFT & VANDALISM

Detect theft of critical items, graffiti and other vandalism.

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Responsive Infrastructure

Advanced Multi-Sensory Analytics – Video, Sound, Smell



01 COST EFFECTIVE

Uses existing
CCTV infrastructure

No GPUs
16×↓ carbon footprint

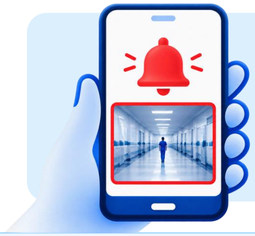
Fewer cameras
Lower-resolution cameras

90% less
Storage and network bandwidth

02 AUTONOMOUS RESPONSE

Detect › **Find** › **Respond**

Find the appropriate responder and tell them where to go and what to do when an event occurs.



They do not require a large control room environment – **a smart phone becomes the control room.**

03 PRIVACY PROTECTION

All systems are privacy protected.

Operators cannot recognize people, while the system remains aware and raises alerts for safety, security and operational efficiency.

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About iOmniscient

Partnership

All iOmniscient Products run exclusively on Intel based computing hardware using OpenVINO™

- The use of Advanced AI technology that goes beyond Deep Learning enables iOmniscient to run its systems without the need for 3rd party GPUs.
- This reduces the power required by a factor of 16 – resulting in a 16-fold reduction in the carbon footprint.
- This is just one part of a multi-faceted program to help customers to implement Sustainable Systems.

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About iOmniscient

- iOmniscient is an **Ethical AI** company.
- It offers **multi-sensory (video-sound-smell) Artificial Intelligence based analytics for Autonomous Systems.**
- It focuses on ensuring **Outcomes** for its customers.
- With **over 2 decades of experience,** iOmniscient systems have been demonstrated to be **robust,** operating with high accuracy and few false alarms specially in **complex and crowded** environments.
- By design, its systems **reduce the cost of infrastructure** required:
  - they can use existing cameras
  - they require fewer cameras with lower resolution
  - they require 90% less storage and network bandwidth
  - they are computing light and require no GPUs
  - they allow autonomous operations requiring fewer personnel to operate
- iOmniscient has implemented projects in **70 countries.**
- With over **70 international patents** many of its capabilities are unique and unavailable from any other source.





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