iOmniscient

iQ-SMART KITCHENS

Safety, hygiene and timely alerts in commercial kitchens



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Kitchen Safety

Real-time AI checks in large commercial kitchens

RISKS

Automated checks and alerts help reduce risk to staff and customers.

DEPLOYMENT

The solution integrates with existing infrastructure to minimize new hardware.



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Uniform and Protective Gear

Hygiene starts with staff equipment

COMPLIANCE

Monitor uniform and protective gear protocols in real time.

HYGIENE

Proper equipment supports hygiene and staff safety.

ALERT

Notify supervisors when anyone is not properly equipped.



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Food Safety and Hazard Detection

Detect burnt food and kitchen accidents



Detect incidents

Detect burnt food and other kitchen accidents.

Automated alerts

Automated alerts support prompt assistance and reduce injury risk.

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Waste Alerts

Respond to overflowing bins



Detect overflow

Detect overflowing bins or containers.

Alert waste teams

Automatically alert waste management teams for immediate action and optimize waste disposal schedules.

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Pest Detection

Continuous monitoring covers active and unused kitchens

RODENTS

Detect rats in commercial kitchens
and food preparation areas and send instant alerts.

COCKROACHES

Send an instant alert
when cockroach activity is detected.

OFF HOURS

Round-the-clock surveillance also covers periods
when the kitchen is not in use.



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Multi-sensory Technology

Video, sound and smell analytics with autonomous response



VIDEO

License Plate Recognition (130 countries) – including Make and Model Detection.

SOUND

Sound Analytics – 100 sounds from gunshot detection to people shouting.

SMELL

Smell Analytics – Infinite smells from gas leaks to managing toilets.

INTUITIVE AI
No Deep Learning
No GPUs, Fast Deployment

COMPREHENSIVE
Autonomous Multi-Sensory
Analytics (video, sound & smell)

SAFETY
Privacy
Protection

AUTONOMOUS RESPONSE
Reduced requirement
for a control room

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Shared Video Infrastructure

One network, multiple uses





Smart Compression

Transmit video over a low-bandwidth network.



Multi-sensory Analytics

Use advanced multi-sensory video, sound and smell analytics.



Video Utility

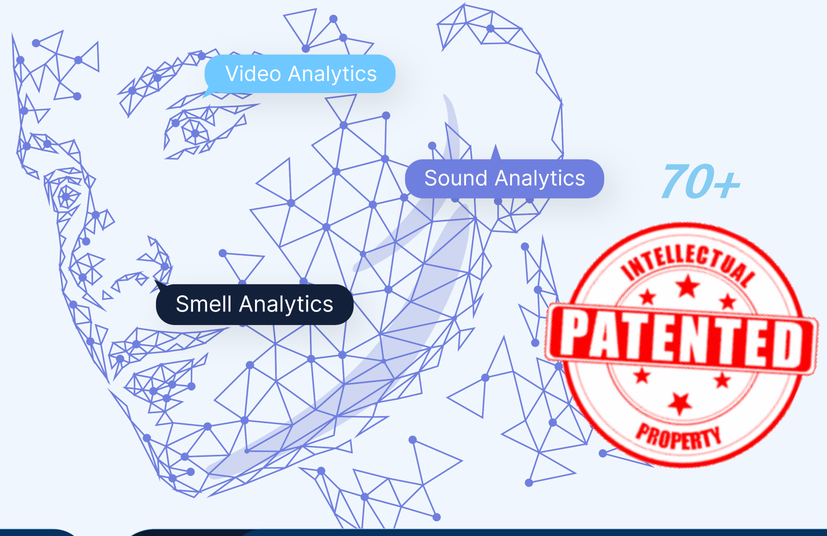
Let multiple stakeholders access the same network for their own objectives.

Confidentiality is protected across stakeholders.

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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

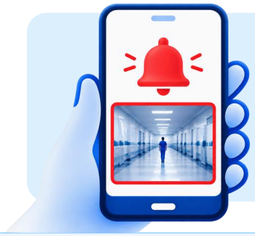
Fewer cameras
Lower-resolution cameras

90% less
Storage and network bandwidth

02 AUTONOMOUS RESPONSE

Detect › **Find** › **Respond**

When there is an event,
the system can find the appropriate responder and tell them where to go and what to do.



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

03 PRIVACY PROTECTION

All systems are privacy protected.

Privacy is never compromised even though the system is aware and can raise alerts for all issues.

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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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