iOmniscient

iQ-QSR

Multi-sensory AI for Quick Service Restaurants



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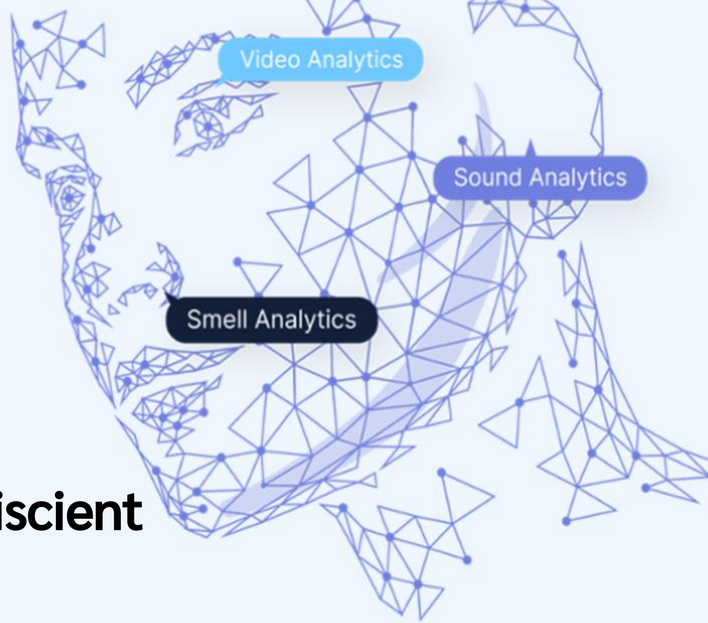
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Quick Service Restaurants

One system across six operational needs

Customer-facing

Understanding customers
and improving customer service.

Operational

Parking, customer and
staff safety, logistics, and hygiene.



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Understand Your Customers

See demand and customer patterns over time - Know who arrives, and when

1

DEMOGRAPHICS

Understand demographics of customers who arrive at different times.

2

DEMAND

Understand customer demand at different times.

3

VIP SERVICE

Recognize VIP customers and offer them special services.

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Improve Customer Service

Manage queues, orders and waiting time - Make every wait visible

QUEUE LENGTHS

Understand queue lengths and optimize them.

ONLINE ORDERS

Accept orders online and have them ready as customers arrive to minimize wait time.

WAITING TIME

Measure Servicing Times and detect customers who have waited too long.



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Protect People and Parking

Detect safety events and protect customer spaces

PARKING

Ensure parking is used by genuine customers.

SAFETY

Detect fighting and staff abuse by customers.



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Keep Logistics and Hygiene in View

Monitor stock levels, detect vermin and support food hygiene



LOW STOCK

Raise warnings when input stocks run low.

VERMIN

Use existing cameras to detect rats and other vermin after hours.

HYGIENIC CLOTHING

Ensure staff are wearing appropriate, hygienic clothing.

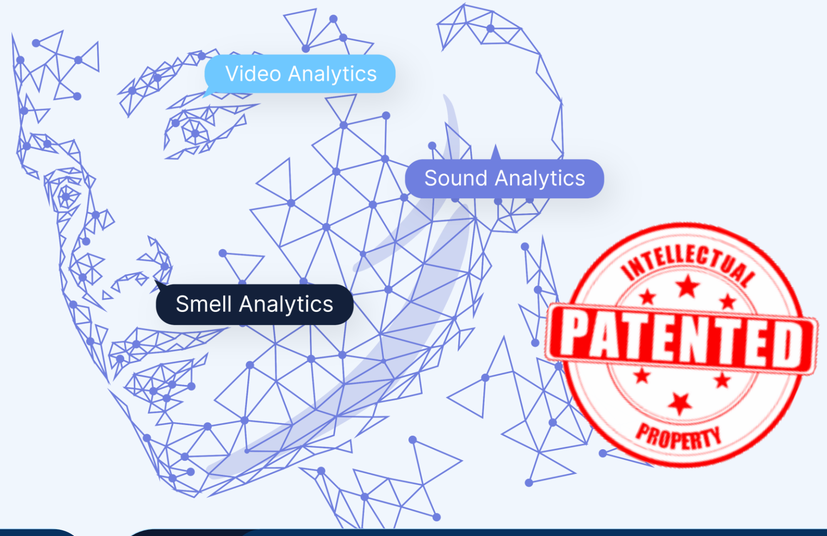
FOOD HYGIENE

Detect if food has gone off.

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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

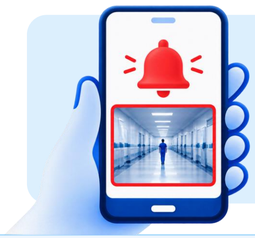
Fewer cameras
Lower-resolution cameras

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 related to safety and care.

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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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