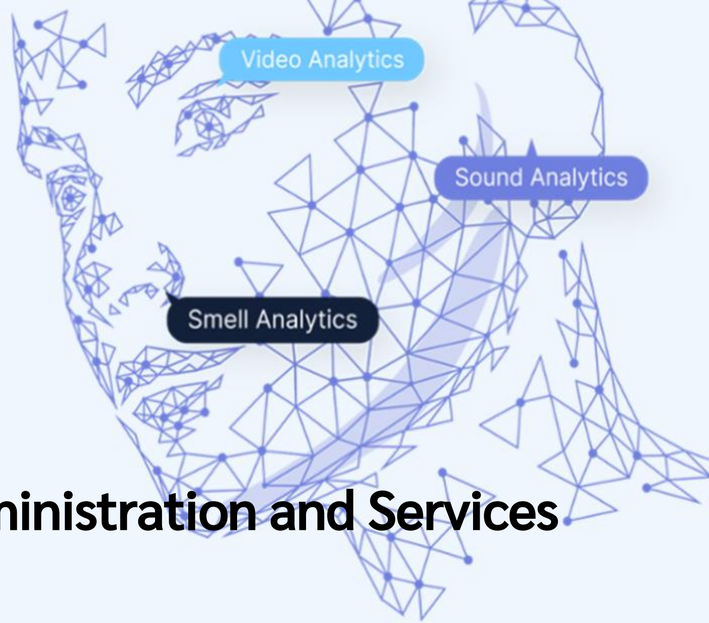

iOmniscient
iQ-Education
Safety, security and operational efficiency for schools and universities

iOmniscient

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Education Overview

From primary schools to universities



SCOPE

iQ-Education combines video, sound and smell analytics for educational institutions from primary schools to universities.

OUTCOMES

- Protect students and staff, improve productivity, maintain discipline and secure campus assets.
- Optimize campus operations, space and energy while protecting the learning environment.

COST

Smart systems can cost less than traditional recording systems.

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Student Safety

Authorized pickup, distress detection and crowd safety



AUTHORIZED PICKUP

Ensure children are picked up after school by registered, authorized guardians.

DISTRESS DETECTION

Detect screams from students in distress, as well as slips and falls.

CROWD SAFETY

Manage crowds and find lost or missing children using the people location application.

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Discipline and Asset Protection

Student conduct, perimeter security and campus property



Student conduct

✓ Detect smoking and vaping in toilets.

✓ Detect fighting.

Campus asset protection

✓ Detect unauthorized entry and fence-line intrusion.

✓ Detect theft and property damage.

✓ Detect graffiti, vandalism and arson, and identify who was involved.

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Real-Time Campus Security

People, vehicle and sound alerts



People of interest

- Recognize known people of interest in a crowd.
- Detect suspicious activities on campus.



Vehicle alerts

Identify blacklisted suspect cars from any country.



Gunshot detection

Detect gunshots on campus.

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Campus Parking

Vehicle access, parking guidance and campus traffic



ACCESS

Ensure authorized vehicle access.

PARKING GUIDANCE

Identify available spaces and provide parking slot guidance.

Support campus traffic management.

ENFORCEMENT AND SAFETY

Detect unauthorized parking and automate the fining process.

Detect fighting and accidents.

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Campus Administration and Services

Attendance, automated access and campus services



Attendance records

Record student and staff attendance using Facial Recognition with secondary authentication.



Automated access

Manage campus access.

Provide automated guest access, including for parents, and access control for unmanned areas.



Campus services

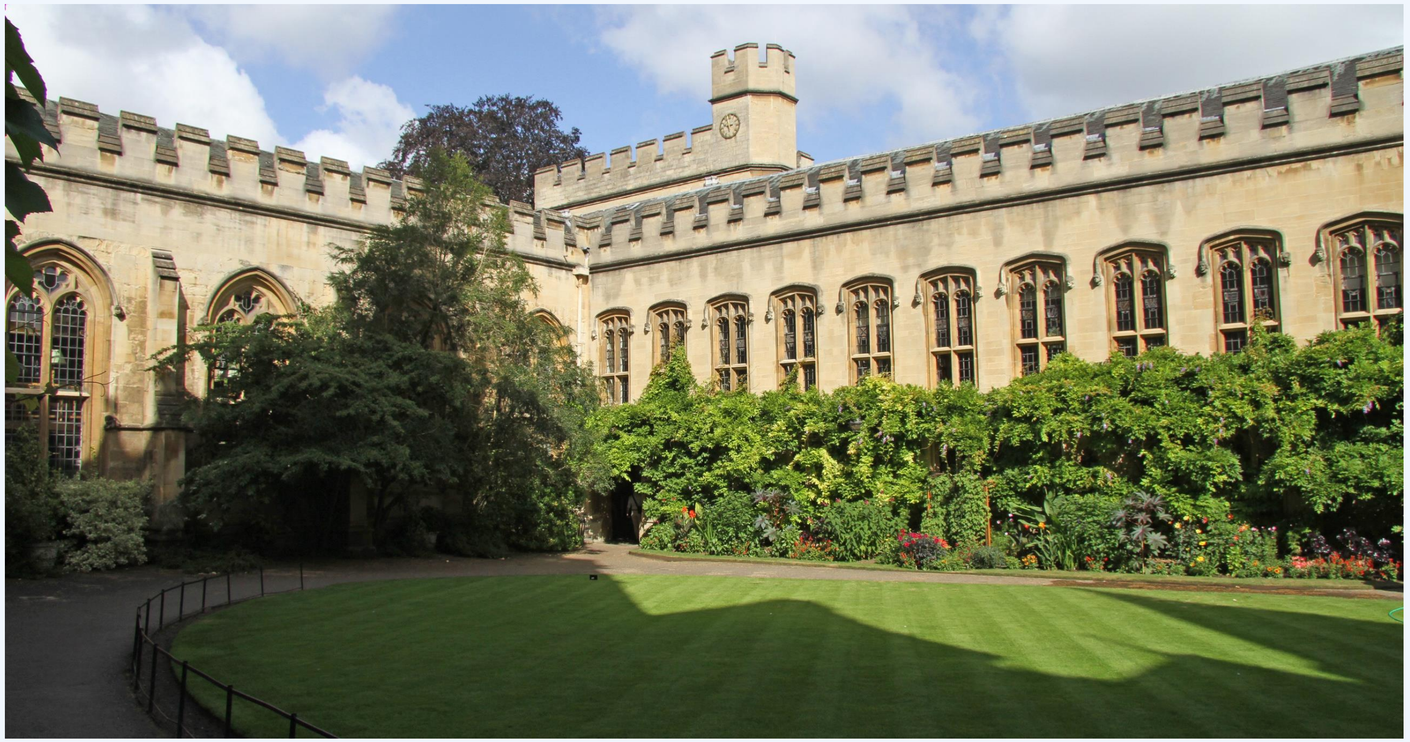
Improve student well-being with an efficient lost and found process.

Use business analytics to improve ROI for campus retailers.

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Occupancy and Energy

Building occupancy for evacuation, crowd limits and energy savings



Emergency evacuation

Understand building occupancy to manage evacuation during emergencies.

Energy savings

Use occupancy information to reduce energy costs.

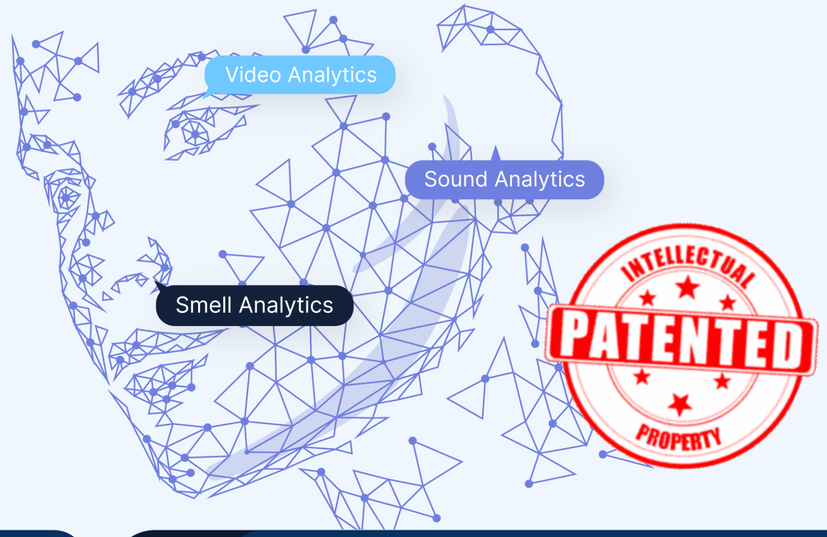
Overcrowding warnings

Give early warnings of overcrowding and congestion to support maximum occupancy regulations.

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System Capabilities

Cost efficiency, autonomous response and privacy protection



01 COST EFFECTIVE

Uses existing
CCTV infrastructure

No GPUs
16×↓ carbon footprint

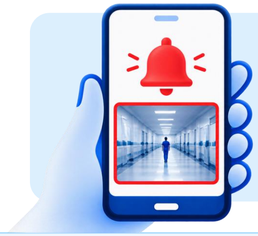
Fewer cameras
5× fewer cameras
at lower resolutions

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.

No operator can recognize any person.
The system can still raise alerts related
to safety, security and operational efficiency.

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Monitoring and Deployment

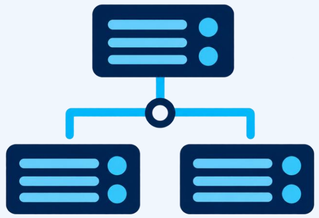
Video compression, alarm reliability, system architecture and deployment support



Smart Compression & Alarm Reliability

Smart Compression enables high-resolution video transmission over low-bandwidth networks and reduces storage requirements.

AI-based NAMS (Nuisance Alarm Minimisation System) reduces false alarms.



System Architecture

Real-time and forensic modes with centralized, distributed or hybrid architecture.



Deployment and Support

Turnkey design and implementation with 24x7 support worldwide.

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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.

www.iomni.ai

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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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