iOmniscient



iQ-Intelligent Hospitals

iQ-Health for patients, families, staff and hospital operations

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Table Of Contents



1 Hospital-Wide Care

2 Patient Safety

3 Care Team and Family

4 Hospital Management

5 Access and Vehicle Control

6 System Benefits

7 About iOmniscient

Click a number and go to the page

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Hospital-Wide Care

One system serving patients, staff, families and management

iQ-HEALTH

The iQ-Health System from iOmniscient addresses the needs of the healthcare sector

STAKEHOLDERS

Patients, staff, patients’ families and hospital management.



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Patient Safety

Detect long inactivity and falls, then alert a carer

01

Slips and Falls

Immediately detect
slips and falls.

02

Responder

Contact the nearest available
responder to ensure that
the patient is not left for hours in
pain and without help.

03

Inactivity

Detect if the patient has not
moved for many hours.
This ensures that their carer
is alerted to check on them.

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Care Team and Family

Daily awareness and serious-incident alerts



Nursing staff

Special attention

Know immediately when the patient needs special attention.

Incontinence

Identify when a patient has been incontinent.

Wandering

Help prevent patients with dementia from wandering off.

Fever

Identify anyone in the facility with a fever.



Families

Daily activity

Check movements, nighttime toilet visits, feeding and other activities.

Accidents and abuse

Receive immediate alerts when incidents occur.

Serious incidents

Notify families immediately by phone or email.

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Hospital Management

Care operations, clinical throughput and protection

WORKFORCE	Understand when carers arrived and left. Understand total hours worked by carers and be aware of nurse burnout.
PATIENTS	Get statistics on patient incidents. Understand and manage how long patients spend in the Emergency Department without being assessed.
SECURITY	Detect theft of drugs from secure cabinets. Be aware of incidents of patient abuse. Detect gas leaks.
FACILITIES	Ensure the cleanliness of the hospital. Manage evacuations.

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Access and Vehicle Control

Manage authorized access for people and vehicles across hospital facilities



iQ-Access

- Two factor authentication for authorized areas.
- No externally exposed or large access database required.
- Access across multiple facilities.



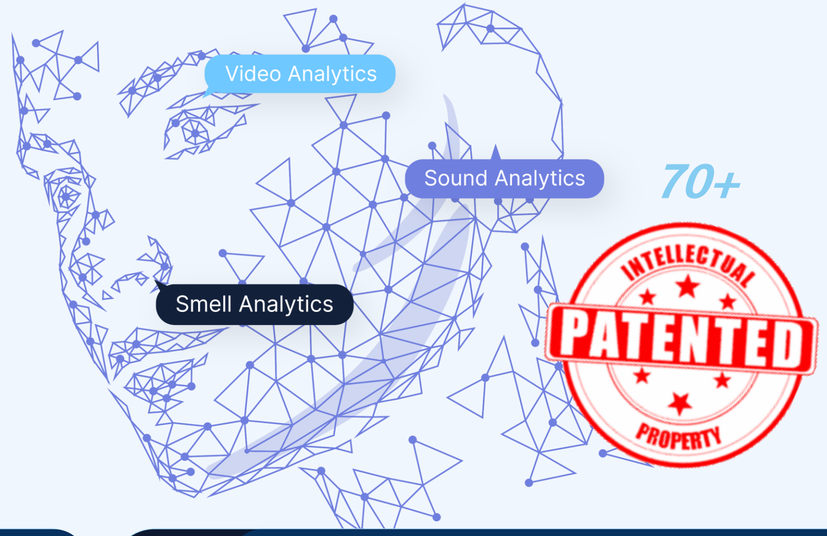
Parking and Driver Authorization

- Automated access to the parking areas
- Ensure only authorized persons drive vehicles such as ambulances.

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System Benefits

Advanced Multi-Sensory Analytics – Video, Sound, Smell



01 COST EFFECTIVE

Uses existing
CCTV infrastructure

No GPUs
16×↓ carbon footprint

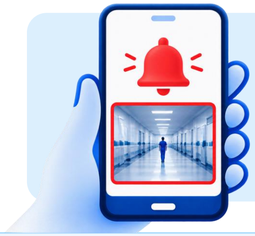
Fewer cameras
Lower-resolution cameras

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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