iOmniscient

iQ-Airport
: Exit Management

Autonomous one-direction exit control from airside to landside



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Table Of Contents



1 One-Way Exit

2 Airport-Wide Applications

3 Unauthorized Entry Prevention

4 Contraband at the Exit

5 Reduced Guarding Costs

6 Protected Operations

7 About iOmniscient

Click a number and go to the page

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One-Way Exit

A controlled passage from airside to landside

AIRPORT-WIDE

iOmniscient’s iQ-Airport is a comprehensive system for enhancing safety, security and productivity at airports.

EXIT CONTROL

The Airport Exit Management system autonomously controls the exit doors ensuring one-directional movement through exit doors from airside to landside.



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Airport-Wide Applications

Airside, landside, roads, parking and tarmac

COVERAGE

It provides applications for airside, landside, outside (for roads and parking) and on the tarmac.

DEPLOYMENT

The system does not require expensive infrastructure and operates in real time using advanced AI techniques.

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Unauthorized Entry Prevention

Door closure protects the security boundary

01 Security entrances

People must enter through security entrances to ensure they are not carrying dangerous goods.

02 Unauthorized entry attempt

A person attempts to enter the airport through the exit gate, bypassing security screening.

03 Automatic closure

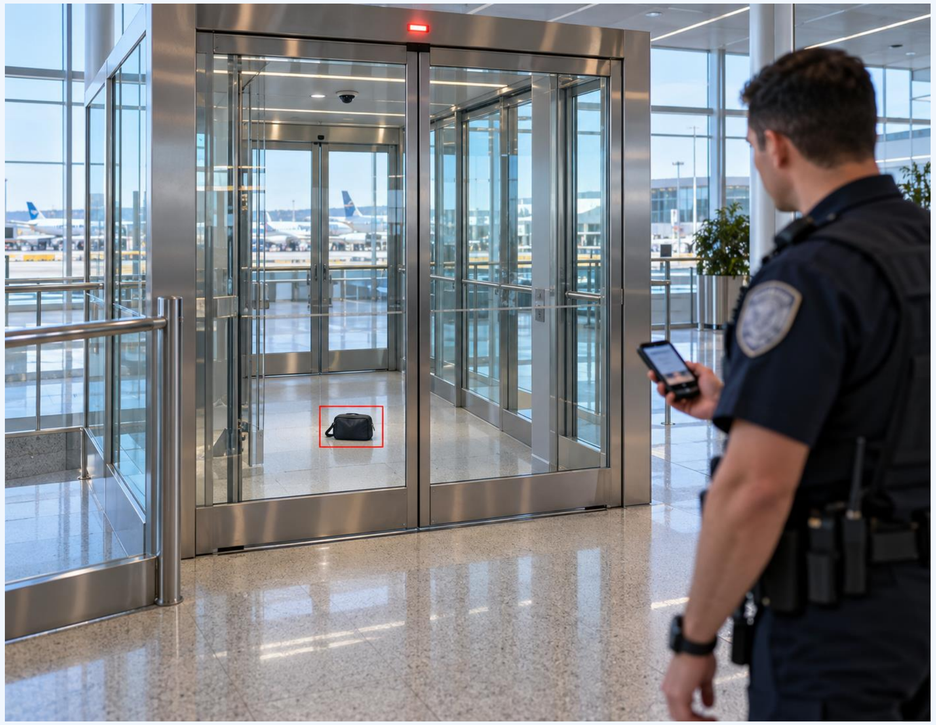
The doors close automatically to prevent unauthorized access.



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Contraband at the Exit

Detect, quarantine and direct a responder



01

Detect

The system immediately detects objects thrown from landside towards airside through the exit, even when obscured by people walking past.
These may include weapons, drugs or other contraband.

02

Quarantine

The doors close automatically to quarantine the area.

03

Respond

The nearest security officer receives a notification with instructions on where to go and what to do.

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Reduced Guarding Costs

Autonomous exit control removes the need for a permanently stationed guard

6 months

The system usually pays for itself within 6 months.





Rising guarding costs

Airports station guards at exit doors to prevent unauthorized entry. As labor costs rise, guarding these doors becomes expensive.



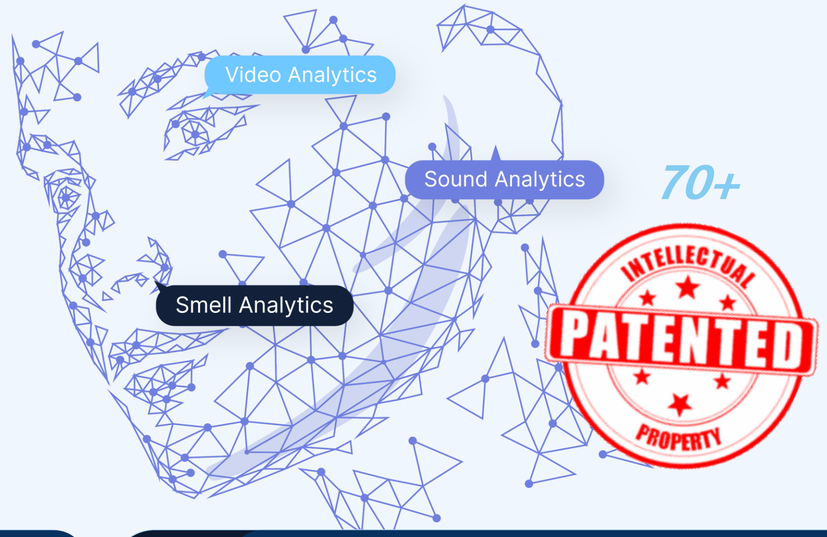
No permanent guard required

With the iOmniscient Airport Exit Management System, a guard does not need to be permanently stationed at the door.

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Protected Operations

Advanced Multi-Sensory Analytics – Video, Sound, Smell



01 COST EFFECTIVE

Uses existing
CCTV infrastructure

No GPUs
16×↓ carbon footprint

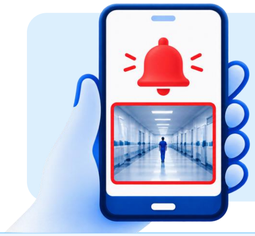
Fewer cameras
Lower-resolution cameras

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.

No person can be recognized by any operator of the system even though the system is aware and can raise alerts.

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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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