
iOmniscient
PARKING
MANAGEMENT

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Balancing Privacy and Efficiency



Managing car parks is complex. Operators must balance privacy, efficiency, and safety while handling diverse environments – indoor/outdoor, public/private, paid/unpaid.

► iOmniscient’s Comprehensive Car Park Management Suite ensures privacy protection, operational efficiency, and fast incident response.

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Parking Management



1. Comprehensive Car Park Management Suite

Balance privacy, safety, access management and charging.



2. Flexible System

Car parks can be indoor/outdoor, public/private, paid/free—each with unique needs.



3. Adaptive Pricing

Smart pricing for reservations and time-based charging. Provides usage insights and optimizes revenue.



4. Operational Safety & Security

Supports access management, parking guidance, vehicle tracking, incident management and autonomous response.



5. Outcome-Focused Partnership

iOmniscient works closely with clients to achieve efficient, safe, and profitable operations.

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Operations

Autonomous and efficient parking operations

- Count occupied and vacant parking spaces.
- Guide drivers by level and aisle using mobile maps.
- Find parked cars by license plate at a kiosk.
- Detect dumped rubbish, shopping carts, obstacles and congestion.
- Check camera health for tampering or sabotage.



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Access Control & Theft Prevention

Authorized access and vehicle protection

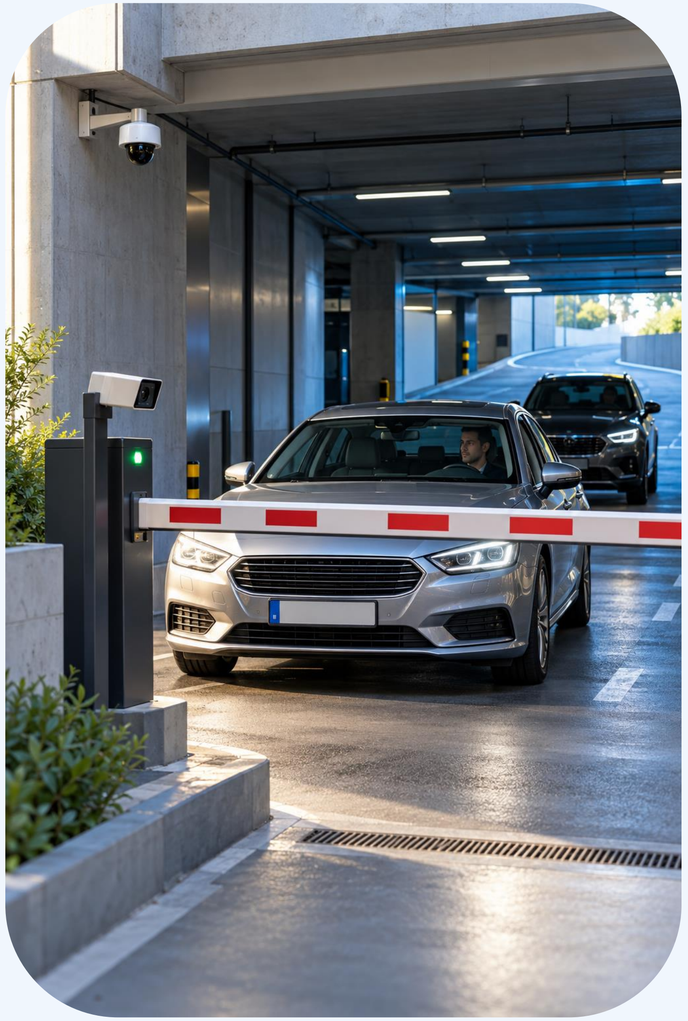
Recognize license plates for automatic entry.

Match the driver to the vehicle owner or authorized user before exit.

Provide VIP access using license plate and/or face recognition.

Prevent tailgating at boom gates.

Detect loitering and suspicious people checking vehicles.



Integrated, modular analytics

Purchase individual applications and connect them as one integrated system.

NAMS reduces nuisance alarms in complex and crowded scenes.

iQ-Hawk detects events and identifies people and vehicles on the same camera.

ASAP links automated response with the operator’s processes.

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New Revenue Generation



- Charge for reserved parking spots.
- Measure time in each zone or bay and charge automatically.
- Apply dynamic pricing based on time spent.
- Alert when vehicles overstay in pickup zones.
- Analyze regular and occasional customer stays to optimize rates.

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Smart Street Parking

Cashless parking through a mobile app

- Register one or more vehicles and a credit or debit card in the Parking App.
- Confirm the parking location using the street signs and send a message through the app.
- Pay for a fixed or variable period under the local parking rules.
- For variable stays, send a departure message. Number plate recognition confirms the vehicle has left.



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Payment Checks

Autonomous checks without meter readers

- Read number plates as vehicles enter and leave the street.
- Use a time threshold based on traffic speed to distinguish passing traffic from parked vehicles.
- Apply a penalty rate when a vehicle stays beyond the parking threshold without registering.
- Recognize vehicles entering side streets or private driveways so they are not charged.



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Deployment Options

Revenue sharing and flexible operation

- No upfront system investment, apart from street signs and public education about parking rules.
- The city can pay for the system through a revenue sharing model.
- The city can manage the system or use an iOmniscient Managed Service for the whole operation.



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Multi-Sensory AI for Parking

Safety

Detect accidents, slips and falls, and fights.

Detect smoke and fire, including in areas with high ceilings or no ceiling.

Detect illegal parking in no-parking or reserved zones and trigger alerts.

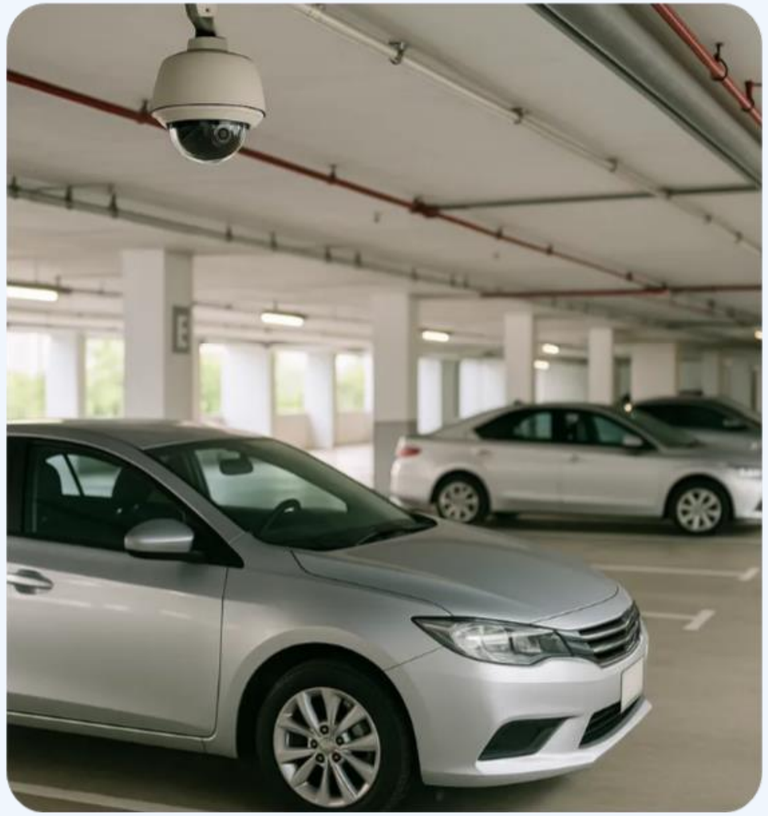
Detect speeding and wrong-way driving.

Automate speeding tickets and fine administration using license plate recognition with iQ-Hawk.

Detect specified objects, graffiti and vandalism.

Alert on blacklisted or over-height vehicles.

Find the appropriate responder and tell them where to go and what to do.

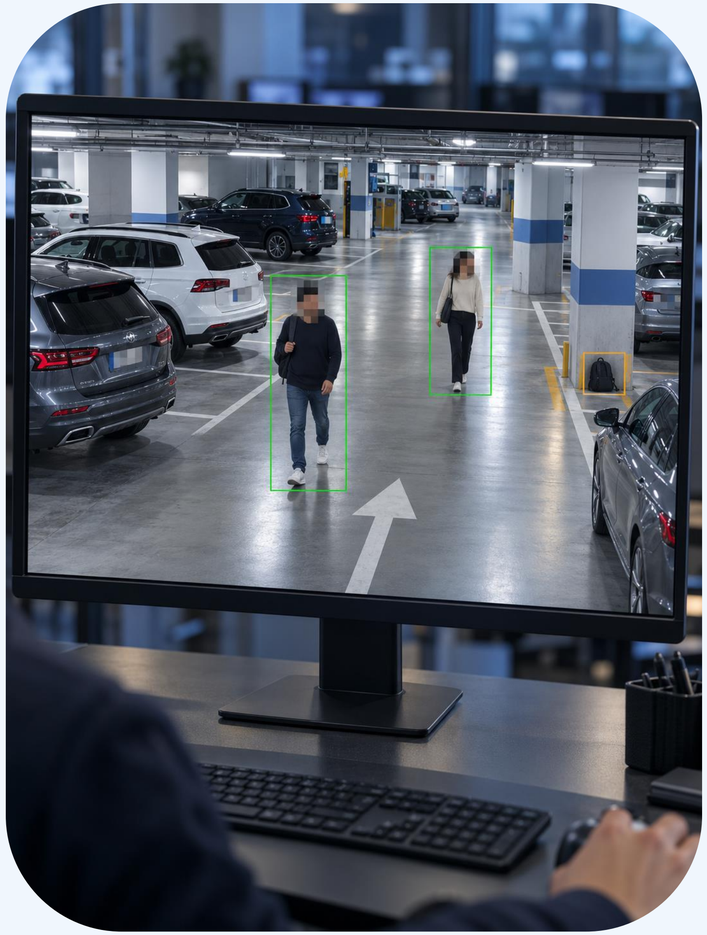


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Multi-Sensory AI for Parking

Privacy

Built-in privacy protection prevents operators from identifying individuals.
The system remains aware of safety issues and can raise alerts while protecting personal identity.
Supports ethical, regulation-compliant operations for all environments.



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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

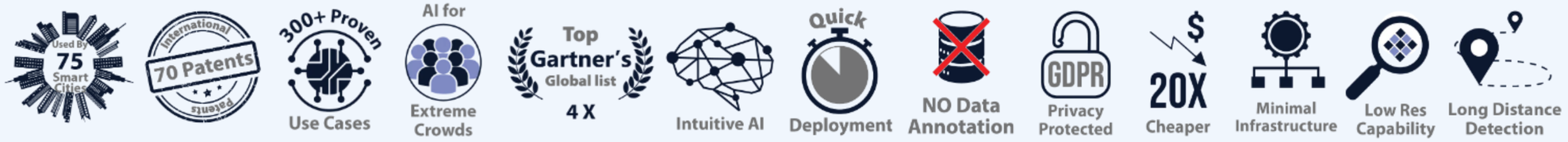
enquiries@iomni.ai

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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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