iOmniscient

iQ-Local Government

Manage public spaces, services and safety



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Local Government Intelligence

A real-time AI system supports informed decisions across local services and public spaces.



Services

Connect parking, roads, events and community facilities.

Safety

Detect hazards and incidents across busy public spaces.

Deployment

Integrate with existing infrastructure to limit new hardware.

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Parking Management

Guide drivers and simplify council operations



Meterless parking

A meterless system can generate council revenue.

Find a space

Help drivers locate empty spaces on streets and in car parks.

Find a vehicle

Help people find their vehicle when they return and reduce the need for parking rangers.

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Event Management

Use live crowd information to plan and respond



Crowd information

Estimate event crowd density and publish it on council websites so residents can decide when to attend.

Event insight

Use crowd behaviour and traffic data to measure event success and plan future events.

Event response

Find missing children, manage VIP access, flag over crowding and identify parking that blocks traffic.

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Road and Street Management

Detect traffic risks and support road planning

Speed

Detect speeding, particularly near schools and parks.

Traffic

Count vehicle numbers and types to understand traffic flows, plan maintenance and optimize traffic lights.

Road incidents

Detect oversized vehicles on restricted roads. Detect accidents near schools and junctions in real time and automatically notify emergency services.



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Library Services

Understand visits and improve service



Visitors

Count visits and assess visitor demographics to guide library services.

Dwell time

Measure how long people stay to improve service and staff scheduling.

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Workshops and Garages

Protect equipment and manage facility risk



Theft prevention

Detect theft in workshops and garages.

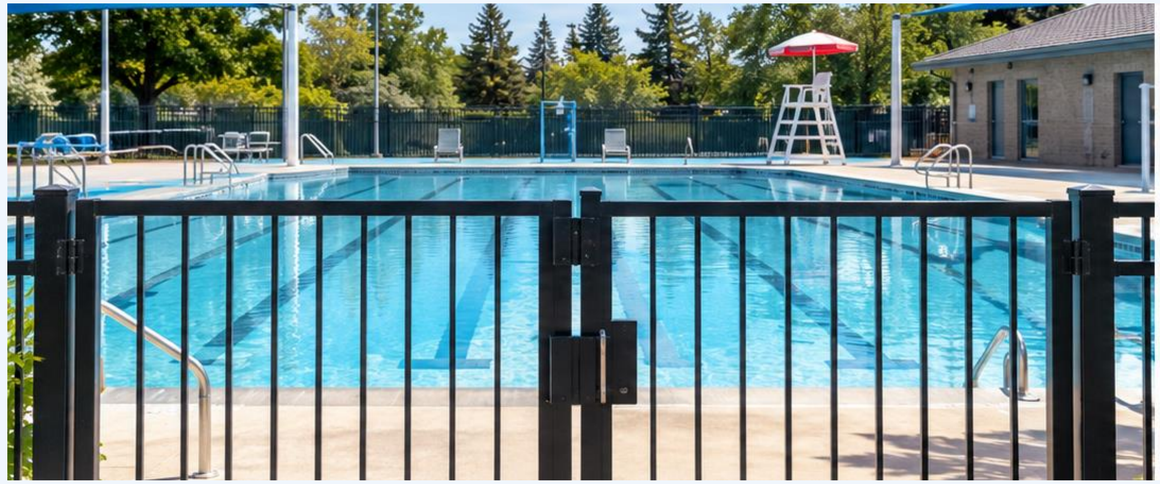
Equipment care

Use predictive maintenance on equipment.

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Day Care and Swimming Pools

Protect vulnerable users in council facilities





Pool safety

Detect pool entry when no lifeguard is present.

Pickup

Confirm that only authorized adults collect children.

Welfare

Detect aggressive or abusive behaviour during the day.

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Public Toilets

Maintain clean council amenities



Cleanliness

Monitor cleanliness in public toilets.

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Waste Management

Monitor disposal sites and identify hazards



Dumping rules

Check that vehicles dispose of rubbish only in prescribed areas.

Identify offenders

Identify illegal dumping, including disposal of extra-large items.

Open-air hazards

Detect smoke and fire in open-air rubbish sites.

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Parks and Open Spaces

Keep parks safe, clean and usable

Rubbish

Detect dumped rubbish, capture the vehicle plate and identify overflowing bins.

Safety

Detect night intrusion, fights and loitering.
Help find lost children.

Use patterns

Count visitors and measure crowds and dwell time.



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Shopping Precincts

Understand activity and respond to graffiti





People and places

Measure visitor numbers, dwell time and demographics by area to inform council services and local retailers.

Graffiti

Identify people involved in graffiti as an incident occurs.

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Council Buildings and Structures

Protect civic places and public assets



Graffiti

Identify those involved in graffiti at council buildings.

Public safety

Detect slips, falls and homeless people near public buildings.

Structures

Detect memorial vandalism, track offenders until apprehended and protect bridges.

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Citywide Video Analytics

One system, many local government uses

License plates

Recognize multilingual plates from 130 countries, including multiple plates on one vehicle.

Crowded scenes

Analyze behavior in busy scenes and track vehicles anonymously across cameras that do not overlap.

Graffiti

Detect graffiti across public spaces and buildings.



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Multi-sensory Technology

Video, sound and smell analytics with autonomous response



VIDEO

License Plate Recognition (130 countries) – including Make and Model Detection.

SOUND

Sound Analytics – 100 sounds from gunshot detection to people shouting.

SMELL

Smell Analytics – Infinite smells from gas leaks to managing toilets.

INTUITIVE AI
No Deep Learning
No GPUs, Fast Deployment

COMPREHENSIVE
Autonomous Multi-Sensory Analytics (video, sound & smell)

SAFETY
Encrypted Privacy Protection

AUTONOMOUS RESPONSE
Reduced requirement for a control room

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Shared Video Infrastructure

One network, multiple uses





Smart Compression

Compress video for transmission over low-bandwidth networks.



Multi-sensory Analytics

Use advanced multi-sensory video, sound and smell analytics.



Video Utility

Let multiple stakeholders access the same network for their own objectives.

Confidentiality is protected across stakeholders.

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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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