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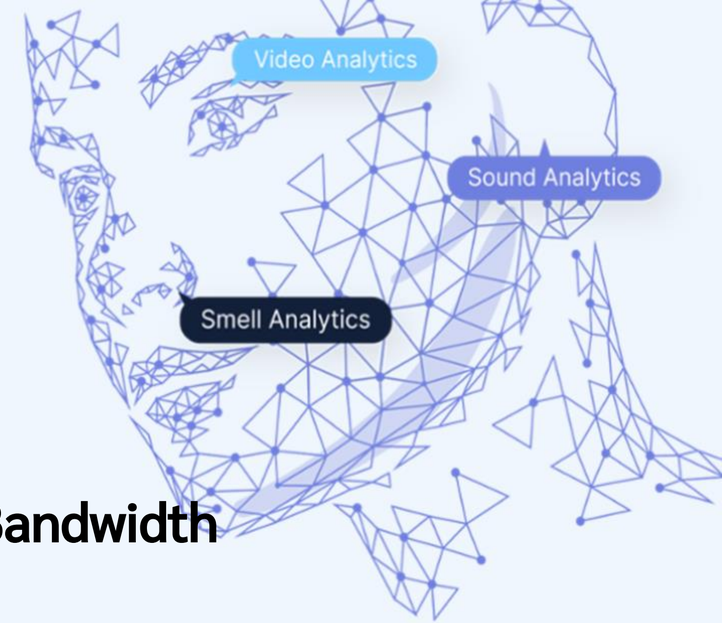
Affordable AI

Ten ways iOmniscient
reduces the cost of intelligent systems



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Do More With Less

Why conventional AI systems are expensive

Reduce cost across the AI lifecycle

CONVENTIONAL COST

Large labelled datasets, training and GPU computers add expense.

DESIGN GOAL

Intelligent systems can cost less to implement than simple recording systems.



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Fewer Cameras

Low resolution analytics cover more ground

10×

fewer cameras typically required

LOW RESOLUTION

Analytics maintain high accuracy using low-resolution cameras, enabling detection at greater distances.

COVERAGE

An area usually needs about one tenth as many cameras.

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No GPUs

Patented methods reduce compute needs

TRAINING

The methods do not require Deep Learning
or Machine Learning and avoid large labelled datasets.

CARBON FOOTPRINT

Computing costs and carbon footprint are usually reduced around 16 times.

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Hours or Days

Less labelling and training accelerate deployment

Little training required

NO LABELLING

Virtually no dataset labelling is required, eliminating that labour cost.

FAST IMPLEMENTATION

Implementation can take hours or days rather than months or years.

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Autonomous Response

The smart phone can become the control room

A control room may no longer be required, allowing officers to spend more time in the field.

DETECT	Analytics identify and understand the incident.
DIRECT	Find the nearest responder and tell them where to go and what to do.
REDUCE	Control-room staffing can fall by 90%; response times by around 80%.

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Fewer False Alarms

NAMS reduces nuisance alarms

1:200

usual accuracy improvement factor

NAMS

Every product includes the Nuisance Alarm Minimisation System.

PRODUCTIVITY

Fewer false alarms can improve staff productivity by around 80%.

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Over 90% Less Data

Smart Compression preserves important information

90%+

reduction in storage and network needs

STORAGE AND BANDWIDTH

Patented Smart Compression cuts requirements by over 90%.

BEYOND H.265

The saving is on top of H.265, without loss of important information.

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One Video Utility

Share one stream across authorized stakeholders

Collapse separate CCTV networks

AUTHORISED ACCESS

Each stakeholder receives and pays only for information they are authorized to receive.

SHARED NETWORK

Organizations have combined seven or eight departmental CCTV networks into one utility.

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Remote Management

Systems can be run without site visits

Manage the system remotely

LIFECYCLE	Install, configure, upgrade, maintain and manage remotely.
EXAMPLE	An entire smart city was implemented this way.
EFFECT	Remote management reduces travel cost and improves productivity.

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Complex Use Cases

Understand interactions as well as individual events

Conventional systems detect individual behaviours or objects, leaving people to interpret the separate inputs.

CONTEXT

Analyse behaviours and their interactions simultaneously.

IDENTIFICATION

Identify people and vehicles involved.

OPERATIONS

The automation reduces human involvement and operating cost.

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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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