iOmniscient



SAFETY & INDUSTRIAL AI

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Introduction – The Need for Safety



Safety is the highest priority in industrial and construction environments.
iOmniscient’s intelligent systems ensure accident prevention, instant alerts, and rapid autonomous response — all while protecting privacy.

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Preventive Intelligence



- Detects PPE compliance (helmets, vests, masks)
- Identifies unauthorized entry to hazardous zones
- Detects gas leaks, spills, and unsafe surfaces
- Provides pre-emptive alerts before incidents occur

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Incident Detection & Response

- Recognizes falls, equipment failures, overheating, smoke, or fire
- Detects abnormal sound patterns like shouts for help
- Guides responders automatically to the exact location
- Ensures faster recovery and reduced downtime

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Integrated Multi-Sensory Analytics



Combines video, sound, and smell to analyze multiple behaviors simultaneously — even in complex environments — reducing human supervision and cost.

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Privacy & Compliance

- All data is encrypted and anonymized. Operators cannot identify individuals

- Meets the strictest global safety and privacy regulations.



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Cost Optimization

- Uses low-resolution, fewer cameras
- Requires no GPUs, reducing power use by 16×
- 90% less storage and bandwidth
- 1:200 false alarm minimization ratio, boosting productivity



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iOmniscient & intel

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

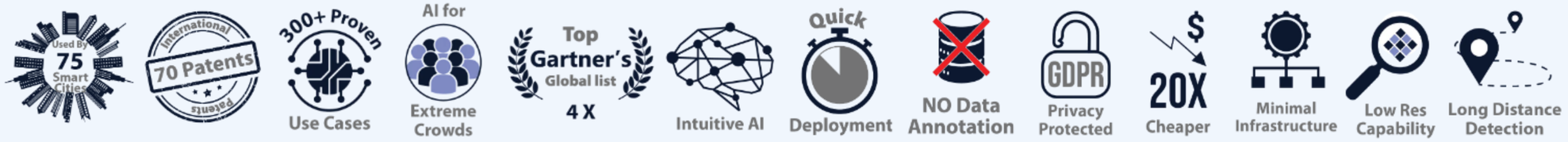
enquiries@iomni.ai

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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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