

iOmniscient

iQ-DEMOGRAPHY

(Data Sheet)

Visitor age and gender analysis for business intelligence

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Table Of Contents



1 Demographic Analysis

2 Applications and Social Distancing

3 Configuration & Privacy

4 Nuisance Alarm Minimization (NAMS)

5 Server Sizing & Requirements

6 About iOmniscient

Click a number and go to the page

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Visitor Demographic Analysis

Use independently for visitor statistics or with Facial Recognition for comprehensive demographic reports



GENDER

Group individual faces by gender: male or female.

AGE GROUP

Classify people into age groups such as child, youth, adult or senior.

COMBINED ANALYSIS

Analyze both gender and age for each query face.

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Applications and Social Distancing

Indoor and outdoor applications with social distancing indication

INDOOR

Workplaces, educational institutions, community venues and museums.

OUTDOOR

Airports, bus terminals, railway stations, public parks and shopping malls.

SOCIAL DISTANCING

A yellow line indicates people maintaining a safe social distance from one another.

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Configuration and Privacy

Perspective-aware analysis with configurable detection areas

INITIAL LEARNING

Initial learning time: 5 seconds. The software can understand perspective.

AREAS OF INTEREST

Set multiple rectangular or polygonal Areas of Interest.

Use size and aspect-ratio filters to define the object to detect.

PRIVACY OVERLAY

Block the person’s face with an emoji icon corresponding to the camera.

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Nuisance Alarm Minimization (NAMS)

Cope with environmental changes and motion







LIGHT / SHADOW

Light and shadow.

LEAVES / TREES

Fluttering leaves and waving trees.

MOVING WATER

Moving water.

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Server Sizing Inputs

Sizing assumptions for one camera running iQ-Demographic

1 CAMERA

One camera running iQ-Demographic.

Resolution: 2 MP.

TRAFFIC

Under 30 faces per minute in one camera.

RETENTION

30 days to store recorded events.

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Minimum Server Requirements

Minimum hardware and operating system requirements

12 CORES

Server core requirement: 12 cores.

CPU: at least 2.2 GHz.

32 GB DDR4

32 GB DDR4 memory with ECC.

2 TB INTEL SSD

2 TB Intel SSD, RAID 1 or 5.

Operating system

64-bit Windows required.

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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.

www.iomni.ai

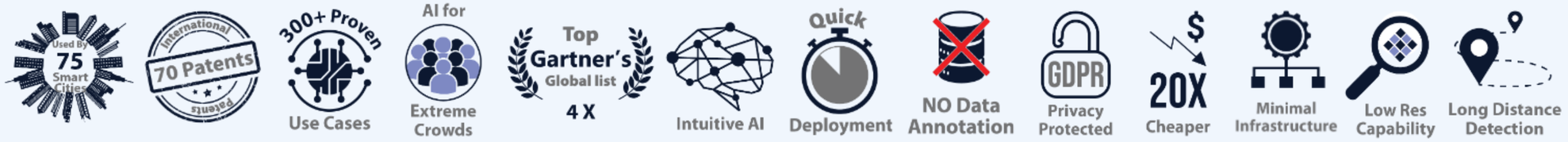
enquiries@iomni.ai

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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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