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iQ-SOCIAL DISTANCING

(Data Sheet)

Perspective-aware distance monitoring
for indoor and outdoor crowds



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Distance Monitoring

An iQ-Crowd Management feature in iQ-120 and iQ-Infinity

MONITOR DISTANCE BETWEEN PEOPLE

The system checks whether two or more people maintain the configured safe distance.

Supports social distancing monitoring during pandemics and other communicable disease outbreaks.

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Detection and Display

Perspective-aware analysis marks distance events in video

01

Observe

The software accounts for scene perspective when it detects people near one another.

02

Measure

The default minimum distance is 140 pixels between two people.

03

Flag

A distance below the threshold is treated as a violation event.

04

Display

Violators receive a red rectangle; a yellow line marks the distance between nearby people.

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Deployment Settings

Crowd distance checks in shared indoor and outdoor areas

Workplaces & Community Spaces

- Workplaces and educational institutions
- Community venues and museums

Transport & Public Spaces

- Airports, bus terminals and railway stations
- Public parks and shopping malls

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Configuration and Resilience

Define the monitored region and reduce nuisance alerts

5 SECONDS

Initial learning time: 5 seconds.

AREAS

Multiple rectangular or polygonal Areas of Interest can be configured.

FILTERS

Size and aspect-ratio filters define the detected objects; nuisance-alarm minimization addresses light, shadow, leaves, trees and moving water.

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Server Requirements

Sizing basis and minimum server specification

Sizing basis

- One iQ-120 or iQ-Infinity camera at 2 MP
- Under 30 faces per minute per camera
- 90 days of recorded-event retention

Minimum server

- Two cores; CPU at 2.2 GHz
- 8 GB DDR4 memory with ECC
- 1 TB Intel SSD with RAID 1 or 5; 64-bit Windows

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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

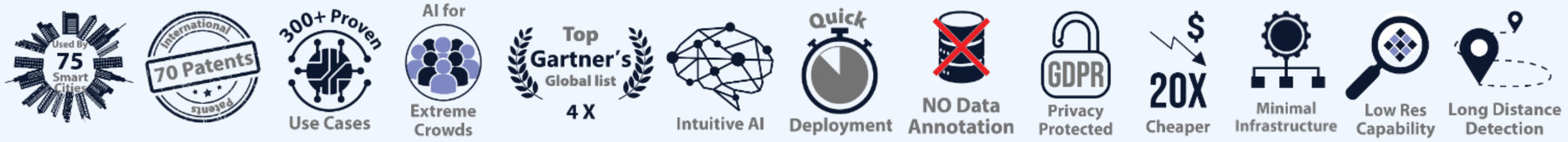
enquiries@iomni.ai

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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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