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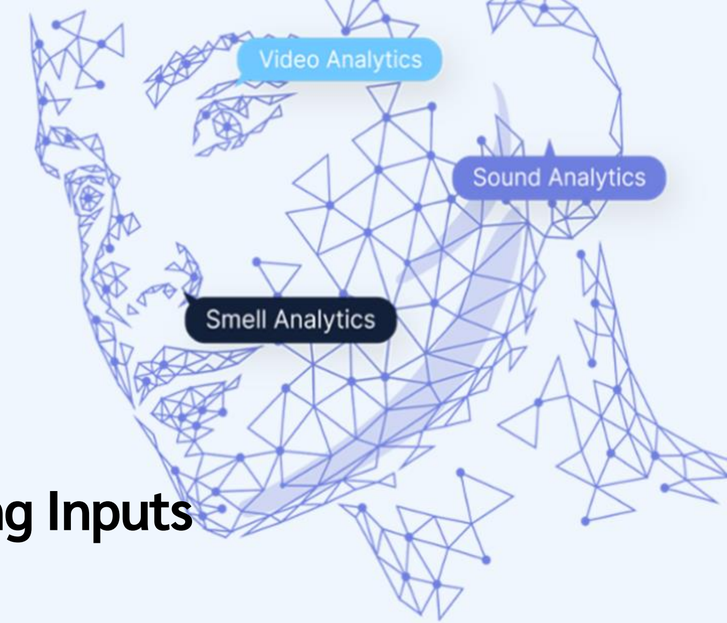
iQ-FACE MASK DETECTION
(Data Sheet)

Face masks, PPE vests and safety helmets



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Face Mask and PPE Detection

An advanced iQ-Products feature for pandemic precautions and PPE monitoring

FACE MASKS

Detect people with and without face masks. Raise an alarm when a person has no mask.

PPE VESTS

Detect people with and without PPE vests. Raise an alarm when a person has no vest.

SAFETY HELMETS

Raise an alarm when a person is not wearing a safety helmet.

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Applications

Detection in stable indoor scenes and busy outdoor environments

INDOOR SETTINGS

Workplaces, educational institutions, restaurants and cafes, and places of worship.

OUTDOOR SETTINGS

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

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Configuration and Detection Limits

Perspective awareness, initial learning and object filters

SIZE AND ASPECT RATIO

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

MINIMUM FACE SIZE

22 pixels between the eyes

PERSPECTIVE

The software understands perspective in indoor and outdoor scenes.

INITIAL LEARNING TIME

5 seconds

AREAS OF INTEREST

Set multiple rectangular or polygonal Areas of Interest.

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Nuisance Alarm Minimization (NAMS)

Minimize nuisance alarms from environmental motion







LIGHT / SHADOW

Cope with light and shadow.

LEAVES / TREES

Cope with fluttering leaves and waving trees.

MOVING WATER

Cope with moving water.

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Server Sizing Inputs

Source sizing scenario for calculating server computing requirements

CAMERA / TRAFFIC

1 camera (iQ-Facial Recognition).

Under 30 faces per minute.

RESOLUTION

2 MP camera resolution.

RETENTION

30 days to store recorded events.

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Server Requirements

Minimum hardware for the sizing scenario on the previous page

12 CORES

CPU at 2.2 GHz.
12 server cores.

32 GB DDR4

Memory with ECC.

2 TB INTEL SSD

RAID 1 or 5.
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

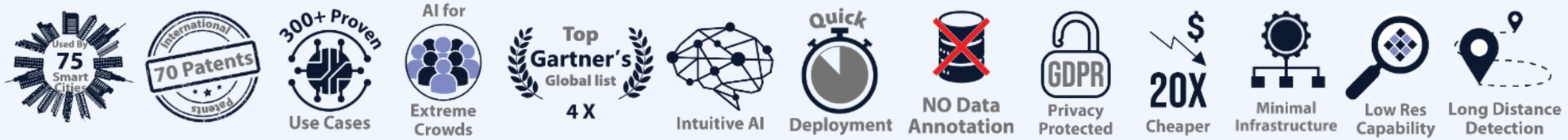
enquiries@iomni.ai

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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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