iOmniscient

High iQ-Defence

A defence industry pack for army, navy and air force



iOmniscient

Table Of Contents

1 The Challenge

2 Traditional vs High iQ-Defence

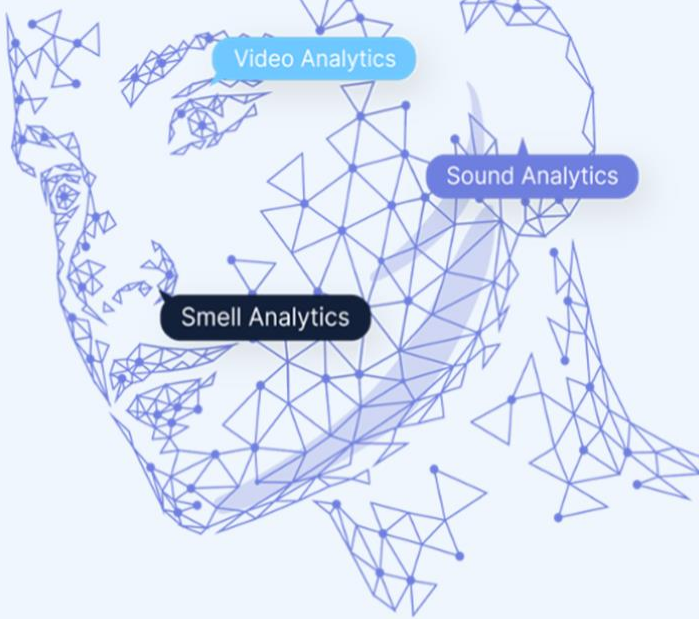
3 Core Capabilities

4 Key Features

5 How It Works

6 Why iOmniscient

7 About iOmniscient



Click a number and go to the page

iOmniscient

The Challenge

iOmniscient's High IQ systems are already deployed across all three services.

Current Challenges

- Defence sites span large, complex environments across army, navy and air force
- Manual perimeter and asset monitoring is resource-intensive
- Threats can approach from land, water or air, day or night
- Personnel safety must be assured even at remote, forward positions

Why High IQ?

iOmniscient's High IQ systems have been used across a number of Defence organizations in all services. They have proven useful both on the battlefield and in home environments.



iOmniscient

Traditional Perimeter Security vs High iQ-Defence

One AI-driven layer replaces manual patrols and database-bound access.

Traditional Approach

- ✕ Manual guard patrols and fixed checkpoints
- ✕ Delayed detection of intrusions
- ✕ Access managed through databases and cards
- ✕ Limited coverage at night or long range

High IQ

- ✓ Automatic long-distance intrusion detection (thermal)
- ✓ Instant recognition of authorized personnel
- ✓ Databaseless access management
- ✓ Detects gunshots, direction, and man-down situations

iOmniscient

Core Capabilities

Purpose-built detection for navy, vehicle and general defence operations.



Navy Specific

- Waterside intrusion detection at the dock
- Unidentified objects on ships, tanks, planes
- Fighting detection



Parking & Vehicle

- Authorized access & driver match
- Available parking slot advice
- Unauthorized parking detection



General Applications

- Long-distance thermal intrusion detection
- Gunshot detection & direction
- Hazardous gas & explosive smell detection

iOmniscient

Key Features

Multi-sensory analytics purpose-built for defence operations.



Advanced Intrusion Detection

Detects an intruder and automatically recognizes if they are authorized to be there.



Man-Down Detection

Detects a man-down situation — vital for ensuring guards are safe.



Face Recognition on the Move

Portable, autonomous drones perform face recognition on approaching crowds.



Aircraft Recognition

Automatic aircraft identification supports base and airfield security.

iOmniscient

How It Works

Example: Face Recognition on the Move for a forward post.

1

1. Detect

A group of people is spotted approaching a forward post in the distance.

2

2. Launch

The army officer launches a small, portable, autonomous drone.

3

3. Recognize

The drone performs face recognition on the crowd, navigating obstacles along its path.

4

4. Resolve

The system identifies the group as friend or foe in real time.



iOmniscient

Why iOmniscient

The technology advantage behind every iOmniscient deployment

Cost Effective

Uses existing CCTV infrastructure with lower-resolution, fewer cameras. No GPUs required, 90% less storage & bandwidth, and no large control room — a smartphone becomes the control room.

Autonomous Response

When an event occurs, the system automatically finds the appropriate responder and tells them exactly where to go and what to do.

Privacy Protection

All iOmniscient systems are privacy protected by design. Privacy is never compromised, even while the system stays aware and raises alerts for safety issues.

©2026 iOmniscient Corporation

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

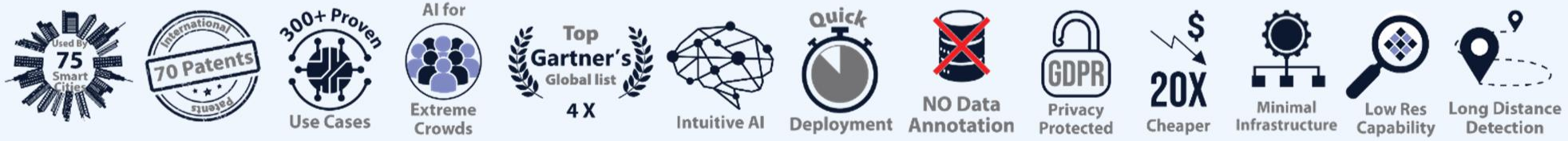
enquiries@iomni.ai

©2026 iOmniscient Corporation

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.





iOmniscient