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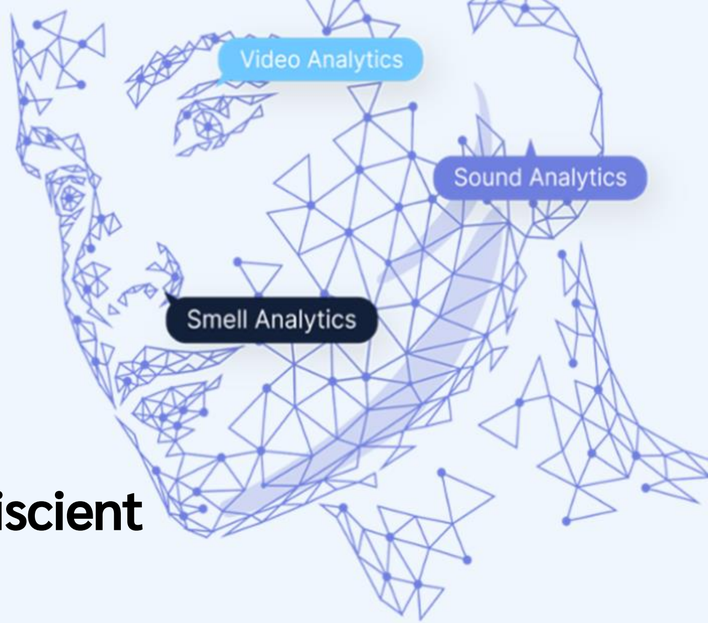
TRAFFIC LAW ENFORCEMENT

Speed, signal and plate evidence within IQ-Roads



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Speed Detection

Built-in radar measures speed at a location

250 km/h

Detect vehicle speeds up to 250 km/h.

±5%

Accuracy for location-based speed detection.

REAL TIME

Traffic law enforcement operates in real time within iQ-Roads.

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Average Speed

A long-distance measurement counters brief slowing near a camera

01

START

Record a vehicle at one point.

02

TIME

Measure travel time across a longer distance.

03

AVERAGE

Calculate average speed over the route.

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Red Light Evidence

Capture vehicles passing after the signal turns red

RED LIGHT VIOLATION

Capture the plate of a vehicle that passes through a junction after the light turns red.

The system captures the plate as evidence of the violation.



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Plate Recognition

Identify vehicles across countries and high speeds

99.8%

Plate recognition reaches 99.8% accuracy even at 250 km/h.

130

Countries whose plates can be recognized using inexpensive cameras.

MATCH

Quickly match recognized plates against stolen-vehicle and unregistered-car databases to support registration and insurance compliance.

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iQ-Roads Portfolio

Enforcement sits within a broader traffic system

LAW ENFORCEMENT

Speed, red-light and plate recognition capabilities.

RELATED SYSTEMS

Traffic incident management and optimization.

Autonomous response emergency management.

The iQ-Roads Traffic Management system is highly cost-effective, requires no expensive infrastructure and operates in real time using advanced AI techniques.

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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.

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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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