Miovision® Detection

Accurate and auditable detection solutions for monitoring and managing traffic intersections

Effective detection is the difference between an intersection that merely cycles and an intersection that responds effectively and efficiently to variable traffic demand.

Meeting Your Detection Needs

Miovision® Detection solutions:

- Combine leading-edge functionality and performance with ease of use and actionable data
- Withstand the most challenging urban and suburban locations
- Integrate with Traffic Operations workflows and environments

Detection

Miovision Detection delivers reliable and accurate presence and pulse detection. With this solution you can:

- Detect vehicles, pedestrians, and cyclists, with a single camera — all at once
- Create fully actuated control plans in seconds
- Leverage advanced V2I integrations

Detection Plus

Miovision Detection Plus includes all the features of Miovision Detection, with additional data and analytics to help you understand demand at the intersection, including:

- **Detection Metrics:** Learn about occupancy ratios, arrivals on red, arrivals on green, and phase interval
- **Turning Movement Counts:** Leverage rolling 90-day count data for vehicles, pedestrians, and bicycles.

Why Miovision?

Traffic Operations teams rely on Miovision Detection solutions because they provide:

Accuracy

Field-proven, state-of-the-art video analysis technology reliably detects multimodal traffic in all weather conditions and regions.

Regular software updates and computer vision enhancements make sure that the high quality and accuracy of your data is maintained.

Transparency

With a detail-oriented and data-driven approach to accuracy, Miovision provides its customers with real-world detection outcomes.

Versatility

A single-camera setup simplifies deployments, while the powerful configuration system ensures operators get the most out of their investment— whether the solution is being used for actuation, measurement and ATSPMs, or for adaptive signal control.

Take advantage of the traffic industry's most cost-effective detection solution. Contact us to find out how you can add Miovision Detection to your intersections, today.

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Features

The Miovision Dectection solution meets the needs of today's traffic teams with:

Detection Features		Detection	Detection Plus
Detection zones	Unlimited presence and pulse detection zones	•	•
Turning Movement Counts (TMCs)	Rolling 90-day count (CSV) (vehicles, pedestrians, bicycles)		•
Detection metrics	Occupancy ratios, arrivals on red, arrivals on green, and phase interval		•
Usability Features			
Camera	Single camera deployment; dual camera for larger intersections	•	•
Remote configuration and validation	Configure and validate detection performance without a truck roll	•	•
Local configuration and data access	Connect directly via Ethernet or existing fiber to perform local configuration and to access MQTT APIs, TMCs (requires Detection Plus), and RTSP interface	•	•
Actuation Channels			
SDLC	64	•	•
GPIO header block	16 x I/O pins for actuation (fail active)	•	•

Required Hardware

The Miovision Detection solution is built on the industry's most versatile and scalable traffic operations hardware platform.

Miovision Core® DCM

This Miovision solution requires Miovision Core® with a DCM (Detection and Counts) module.

Miovision Core is the hardware platform that supports Miovision's in-cabinet communications, remote monitoring, traffic operations, and traffic management solutions. This easy-to-install, weather-proof device collects data from the existing controllers and devices, and provides convenient and secure connectivity to the cabinet.

The DCM slots into the Miovision Core device to provide the processing power necessary for Miovision's specialized computer vision algorithms and detection capabilities.

See the Miovision Core DCM Datasheet for product specifications.

Industry Certified
NEMA TS-2 Compliant
UL and cUL certified power source

Cabinet Ready
64-Channel SDLC, RS232, GPIO, Networked Ethernet, 16 actuating IOs

Secure
TPM with secure RSA key generation and management

Camera Support
Support for two SmartView 360 cameras with future extensibility

Color Display
2.4" TFT color display

Miovision Core DCM

Miovision SmartView 360™

Designed for robust operation in all weather conditions, the Miovision SmartView 360™ camera provides a bird's-eye view of your intersections—delivering high-resolution video streams required by a range of traffic operations solutions.

See the Miovision SmartView 360 Datasheet for product specifications.

Sensor
4K, 9 megapixel, 360° fisheye lens

Angular Field of View
Horizontal: 182°, Vertical: 176°

SmartView 360

For more information, visit **miovision.com/trafficlink**, email us at **hello@miovision.com**, or call us NA Toll-free at **1-855-360-7752**