

Miovision Detection

Move traffic through your network quickly and safely

Understand demand at your intersection so you can safely and efficiently move traffic through your city. With reliable, accurate presence and pulse detection you can control and optimize traffic flow, identify and handle demand, and reduce the number of opportunities for traffic incidents to occur.

Easy to install and maintain

Non-invasive installation minimizes disruption to your traffic network saving you time and resources.

- Above ground installation is easy to install and troubleshoot with minimal downtime
- Remote and roadside access allows you to configure devices to fit your workflow
- Supports up to six cameras and customize detection zones across all lanes of traffic at the intersection or as vehicles approach

Reliable in all conditions

Hardware and algorithms designed to provide reliable performance in all environments.

- Rugged commercial-grade components ensure maximum product life
- Accurate consistent results with algorithms that can adapt to inclement weather
- Optimized design means fewer issues at the intersection and fewer citizen complaints

Complete, accurate data

Make informed decision with data you can trust from the industry leaders in computer vision.

- Metrics for occupancy ratios, phase intervals, and arrivals on red and green
- Available rolling 90-day count data for vehicles, bicycles, and pedestrians
- Optional advance detection data for vehicles approaching the intersection



Features

The Miovision Detection 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			
Cameras	Connect up to three cameras for each Core DCM, or up to six with an additional switch (sold separately)	•	•
Advance detection	Detect vehicles as they approach from 500 ft away (requires SmartView Approach)	•	•
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 configurations, access available data, and manage MQTT APIs and RTSP interfaces	•	•
Actuation Channels			
SDLC	64	•	•
GPIO header block	16 x I/O pins for actuation (fail active)	•	•

Hardware

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

Miovision Core[®] DCM

Full-stack ITS solution for managing and analyzing your intersections

Open and secure platform provides wireless connectivity and communications to access your cabinets from anywhere. The improved modular design optimizes performance and reliability in all environments and can be upgraded to expand functionality and evolve with the development of your traffic network.

The high-performance NVIDIA Volta™ GPU enables you to process detection and count data at the source with industry-leading precision and accuracy giving you the power to make real-time decisions with accurate and complete data.

Required Hardware. See the Miovision Core DCM Datasheet for full 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



Core DCM

Miovision SmartView™ 360

Get a 360° birds eye view of your intersection

Designed for robust operation in all weather conditions delivers high-resolution video streams required by a range of traffic operations solutions.

Required Hardware. See the Miovision SmartView 360 Datasheet for full specifications.

Sensor

4K, 9 megapixel, 360° fisheye lens

Angular Field of View

Horizontal: 182°, Vertical: 176°



SmartView 360

Miovision SmartView™ Approach

Detect vehicles as they approach your intersection

Move traffic efficiently through your network by using anticipated demand to build responsive control schemes and measuring free-flow traffic to understand how effectively you are servicing demand.

Optional Hardware. See the Miovision SmartView Approach Datasheet for full specifications.

Sensor

Approx. 1/2.8 type CMOS image
sensor, 1280x960

Maximum Detection Range

500'

Angular Field of View

Horizontal: 15° (Zoom),
Vertical: 9° (Zoom)



SmartView Approach

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

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