



TrafficCamera

AXIS M2035-LE

TrafficCamera – AXIS M2035-LE is a compact outdoor-ready bullet camera designed for reliable operation in tough conditions. It delivers **HDTV 1080p video** with **Lightfinder low-light performance**, **WDR** for high-contrast scenes, and optimized **IR illumination** for night monitoring. With **IP66/67** and **IK08 protection**, the camera is well suited for permanent outdoor use. By default, this TrafficCamera is offered with a **3.2 mm wide lens (HFOV ~101°)** for broad coverage. Optionally, a **narrow 8 mm lens (HFOV ~39°)** can be supplied for long-distance focused views. Power and connectivity are provided via **PoE Class 3**, and secure cable management is ensured with the sealed back box.

Flow Analytics turns the TrafficCamera into a powerful edge device for traffic and mobility intelligence, with advanced video detection features. It enables **event-based detection**, **trajectory tracking**, and **statistical reporting** directly on the camera, offering many traffic analysis functions, while maintaining full compliance with **personal data protection** requirements. Analytics can be accessed conveniently **through a browser** or via the **FLOW Insights** desktop client for clear data visualization. With its data interfaces support, the TrafficCamera integrates easily into **smart city platforms**, **adaptive traffic control**, and **third-party systems**.

Applications

The TrafficCamera with FLOW Analytics is suitable for typical traffic monitoring tasks at speeds **up to approximately 100 km/h**, where video analytics operates at **15 FPS** and tracks up to **32 objects** simultaneously. It is ideal for **urban environments** and smaller or moderately complex scenes such as **two-lane roads**, **intersections** or **pedestrian crossings**. For optimal coverage, the **Wide (3.2 mm) lens** is suitable for detection at a distance of 0 m to 70–80 m, while the **Narrow (8 mm) lens** performs best between 30 m and 120–150 m, with performance reduced by weather conditions (fog, rain). A wide range of use cases is supported, as listed below. This camera is not intended for license plate recognition.

Adaptive traffic control

- virtual induction loops
- level of service measurement
- integration with traffic controllers

Traffic evidence

- wrong-way driving
- illegal lane change
- blocking vehicle detection

Traffic flow improvement

- congestion detection
- vehicle presence data
- movement statistics

Safety & security

- object presence alert
- unusual movement detection
- near misses

Retail

- queue detection
- stationary time
- other analyses

Parking

- occupancy
- parking time
- wrong parking

Powered by FLOW, the most powerful traffic framework

FLOW is a fully interactive video analytical traffic framework designed for real-time driven applications. It is the fastest and the most efficient way to transform any video stream into a stream of actionable insights. The first tool ever which visualizes traffic data live right at your fingertips and communicates with the other parts of your smart infrastructure using APIs. FLOW is built for all imaginable traffic scenarios thanks to the powerful combination of unique visual traffic programming language, trajectory-driven design and AI-based image processing. Take the advantage of the one unified solution for smart traffic, parking, retail and security, which runs everywhere.

Video detection features

FLOW is powered by a proprietary developed and globally trusted video analytical engine utilizing deep-learning. This engine is capable of detecting and tracking up to 18 different categories of objects at the same time.

Traffic analysis functions

FLOW supports various traffic analytic functions and operators that can be combined into a comprehensive traffic analysis running in real-time. Thanks to the unique visual traffic programming language, you become the designer of a monitoring solution tailored to your specific needs.

Interactive data visualization

FLOW allows you to visualize the extracted information and analyses using interactive widgets on the customizable dashboards. Create a beautiful live visualization of the current traffic situation composed from the histograms, trajectory views, graphs and other graphical elements.

Data interfaces

FLOW was born for integration with other parts of smart infrastructure. Any type of extracted traffic insights can be continuously delivered to 3rd party systems using an open API which supports multiple communication protocols including UDP and REST.

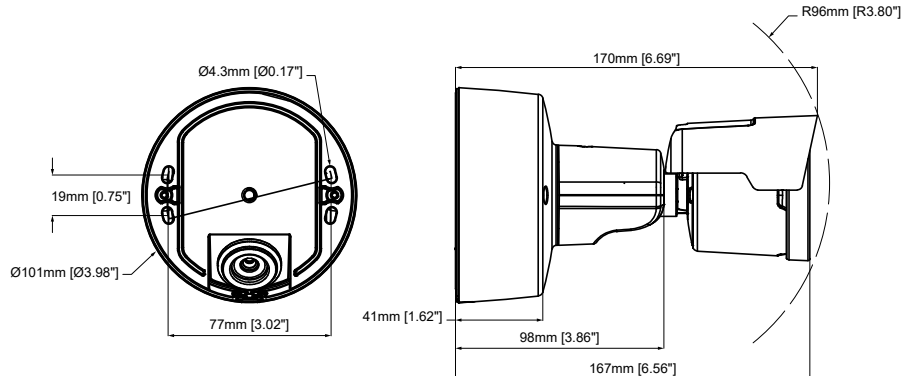


Model

TrafficCamera AXIS M2035-LE-W

Wide lens (3.2 mm)

White



General properties

Vision processing unit	Ambarella CV25 SoC
Memory	1024 MB RAM, 512 MB Flash
Power supply	PoE (IEEE 802.3af/802.3at) Type 1, Class 3
Lens	Fixed iris, fixed focus, IR-corrected. Focal length 3.2mm, F1.4. Horizontal FOV ~101°. Image format 16:9. Max. IR Distance (Radius) 20 m (65.6 ft)
Frame rate	Max 30 fps at 1920 x 1080
Image sensor	1/2.9" progressive scan CMOS with Lightfinder technology
Picture elements	1920 (H) x 1080 (V), HDTV 1080p
Minimum illumination	Color: 0.16 lux at 50 IRE, F1.4 (3.2 mm) / 0.17 lux at 50 IRE, F1.6 (8 mm) B/W: 0.03 lux at 50 IRE 0 lux with IR illumination on
HDR/WDR	WDR up to 115 dB (scene dependent)
Audio	Two-way via portcast technology (Axis speakers only)
Regulatory compliance	CE, FCC, NEMA TS2, IEC/EN/UL 62368-1
Protection rating	IP66 / IP67, IK08
Dimensions	Length 170 mm (6.7 in), diameter 101 mm (4.0 in)
Weight	491 g (1.1 lb)
Storage temperature	-40 °C ~ 65 °C (-40 °F ~ 149 °F)
Storage humidity	5% ~ 95% RH (non-condensing)
Startup temperature	-30 °C (-22 °F)
Operating temperature	-30 °C ~ 50 °C (-22 °F ~ 122 °F)
Operating humidity	10% ~ 100% RH (condensing)
MicroSD support	Slot occupied with microSD reserved for FLOW analytics
LED indicator	Status LEDs for power, network, and activity
Supported protocols	IPv4, IPv6, TCP, UDP, DHCP, DDNS, HTTP, HTTPS, NTP, RTSP, MQTT

Video analytics

Video analytics engine	Fully configurable trajectory processing pipeline via visual programming language, exact object traces, 18 object categories, traffic light state recognition, dynamic and static anonymization, georegistration, no-detection zones
Available filters	Zone, gate, directional gate, directional zone, movement, duration, time of occurrence, category, LP
Other operators	Level of service, union, intersection, complement, volume, near misses
Data statistics	Incremental / whole history, time blocks, floating window, fixed interval
Outputs	Events, actions / commands, statistics, tables, histograms, images
Possible tasks	Presence detection, u-turn detection, blocking vehicle detection, red light running, average speed, detection of specific traffic events, movement set statistics, conflict detection, traffic data collection, queue detection

Other features

- User management - admin, analyst, viewer
- NTP time synchronization
- Data reduction profiles for remote configuration
- Evidence - excel reports, images
- Visibility detection
- Georeferencing

Packing list

- Camera

Optional

- IO expander - 16 relay / digital outputs
- Pole mounting kit
- Bracket screw kit

ORDERING CODES

TC-AXI-M2-CV-M2035-LE-W

TrafficCamera AXIS M2035-LE (wide lens)

TC-AXI-M2-CV-M2035-LE-N

TrafficCamera AXIS M2035-LE (narrow lens)

FVA-TC-AA-001CH

FLOW VA license for AXIS/Ambarella camera

TC-DFS-M2035-LE-PMB

Pole Mount Bracket (diameters 80~150 mm)

TC-AXI-T91B47-PoleMount

AXIS T91B47 Pole Mount for different pole diameters

TC-AXI-T94B01P-ConduitBackBox

AXIS T94B01P Conduit Back Box for AXIS T91B47 Pole Mount

RCE systems s.r.o.

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