

TrafficCamera AXIS M2035-LE with FLOW – User Manual



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1. Introduction

Thank you for choosing the TrafficCamera AXIS M2035-LE. This device is part of the new generation of the TrafficCamera family of edge devices, combining robust AXIS hardware with the FLOW analytics software. Its rugged construction ensures reliable performance in harsh weather, dust, and impact-prone environments while still maintaining stable operation.

The camera is intended for deployments in traffic, mobility, parking, and security applications, but thanks to its versatile design it can also be used for smaller infrastructure projects, smart city pilots, or permanent monitoring in public spaces. It is suitable for typical traffic tasks at urban speeds up to approximately 100 km/h (video analytics operates at 15 FPS with 32 objects). It is not designed for license plate recognition.

2. Technical Specifications (Summary)

- **Image sensor:** 1/2.9" CMOS, Lightfinder, WDR
 - **Resolution:** 1920×1080 @ 25/30 fps
 - **Lens options:** 3.2 mm (HFOV 101°) / 8 mm (HFOV 39°)
 - **Ingress/Impact Protection:** IP66/67, IK08
 - **Operating Temperature:** –30 °C to +50 °C
 - **Power:** PoE Class 3 (typical 5 W, max 12.95 W)
- Note: All other detailed specifications are available in the official datasheet.*
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3. Package Contents

Inside each camera package, the following items are included:

- AXIS M2035-LE camera (3.2 mm or 8 mm variant) with microSD card reserved for FLOW analytics
 - Sealed back box with connector guard
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4. Safety & Regulatory Information

Important guidelines before installation:

- **Electrical Safety:** The camera uses PoE (Power over Ethernet) only (Class 3). Do not connect it to any other power source.
 - **Mounting:** Ensure the camera is securely mounted to a pole or wall. Proper sealing is required to maintain the IP66/67 rating. Always form a drip loop with the Ethernet cable to prevent water from entering the connection.
 - **Environmental Limits:** The camera operates within a temperature range of –30 °C to +50 °C.
 - **Regulatory Compliance:** Certified for CE, FCC Class A, NEMA TS2, IEC/EN/UL 62368-1. For full details, consult the official Axis documentation.
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5. Installation

- **Mount the Camera:** Use the included back box or optional accessories to mount the camera on a pole or wall.
- **Connect Power & Data:** Connect a single Ethernet cable from your PoE switch or injector to the camera.
- **Ensure Proper Sealing:** Securely tighten all cable entries to maintain the weatherproof seal for outdoor readiness.
- **Boot Sequence:** The camera will take approximately 1–2 minutes to boot up.
- **Camera Framing:** Position the camera at the correct height and angle depending on your use case. Adjust pan/tilt manually to cover intersections, road approaches, sidewalks, or parking areas. For guidance on scene setup, consult tips published on our website.

For more detailed information, follow the manufacturer's installation instructions at chrome-extension://efaidnbmnnnibpcajpcglclefindmkaj/<https://www.axis.com/dam/public/5f/09/da/installation-guide-axis-m20-bullet-camera-series-en-US-466580.pdf>.

6. First Startup & Access

Once powered and connected, the camera can be accessed via a browser or the FLOW Insights desktop client.

Default IP addresses

Axis devices are designed for use on a network and require an IP address to access their web interface. Most networks include a DHCP server that automatically assigns IP addresses to connected devices. If no DHCP server is available, the IP address depends on the installed AXIS OS version:

- **AXIS OS 12.0 and later:** The device obtains an address from the link-local subnet (169.254.0.0/16).

For additional details, visit <https://help.axis.com/en-us/access-your-device>.

6.1 Web Access (Recommended)

Open a browser and navigate to:

<https://<camera-ip>:8088/insights>

The web version of **FLOW Insights** will load directly from the camera. The first load may take longer, depending on network speed. Once cached, subsequent launches are faster.

- **Username:** admin
- **Password:** admin

 **Security Note:** Change the default password immediately after first login.

6.2 Desktop Client

For desktop configuration, we recommend using **FLOW Launcher**, which automatically detects the camera and fetches the correct version of FLOW Insights.

Download FLOW Launcher here: <https://datafromsky.com/flow-versions/>

6.3 AXIS Web Interface (alternative)

As an AXIS camera, standard AXIS web interface is available for camera configurations by simply entering the camera IP address in the web browser.

<camera-ip>

For TrafficCameras with FLOW, the default access details are as follows

- **Username:** root
- **Password:** root

7. Operation

The camera is designed for seamless use with the **FLOW framework**.

Useful links include:

- TrafficCamera homepage:
<https://datafromsky.com/trafficcamera/>
 - FLOW Insights download homepage:
<https://datafromsky.com/flow-versions/>
 - FLOW knowledge base
<https://intercom.help/datafromsky/en/collections/2019942-flow-real-time-monitoring>
 - Manuals & Datasheets:
<https://intercom.help/datafromsky/en/articles/5559259-manuals-and-datasheets-trafficcamera-trafficembedded-trafficxroads-trafficdrone>
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8. Troubleshooting

Problem	Possible Solution
Camera not responding on network	Check PoE connection. Verify PoE switch is powered on. Use FLOW Launcher to discover the device's IP.
FLOW Insights not loading	Clear browser cache. Verify correct IP and port. Try using FLOW Launcher instead.

Poor image at night

Ensure IR LEDs are clean. Adjust mounting angle to prevent glare from objects.

9. Regional Notes

- **UAE:** The AXIS T94B01P Conduit Back Box is required for installation. We recommend sourcing this accessory locally.
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10. Model Variants

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).

- **AXIS M2035-LE-W 3.2 mm** – Wide lens, HFOV ~101° / VFOV ~54°, min. focus ~1.2 m
 - **AXIS M2035-LE-N 8 mm** – Tele lens, HFOV ~39° / VFOV ~22°, min. focus ~3 m
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11. Support & Contact

For assistance, please contact:

- **Web:** www.datafromsky.com
- **Email:** info@datafromsky.com