AXIS P3935-LR Network Camera

Best-in-class dome with IR for advanced onboard surveillance

Specifically designed for onboard surveillance, AXIS P3935-LR complies with all relevant transportation industry regulations including EN50155, EN45545, and NFPA 130. Featuring Axis Lightfinder and Axis Forensic WDR, it delivers true colors and great detail in challenging light or near darkness. It includes built-in invisible IR LEDs (940 nm) for video surveillance in complete darkness. Enclosed in an IK10-, IP66-, IP67-rated metal casing, this robust, vandal-resistant camera features a built-in microphone for audio surveillance and detection. Furthermore, enhanced security features prevent unauthorized access and safeguard your system.

> **Vandal-resistant, metal casing**

> **Complies with EN50155, EN45545, and NFPA 130**

> **Lightfinder and Forensic WDR**

> **Invisible IR LEDs, built-in microphone, and EIS**

> **Enhanced security features**

AXIS P3935-LR Network Camera

Models	AXIS P3935-LR RJ45 AXIS P3935-LR M12

Camera

Image sensor	1/2.9" Progressive scan RGB CMOS
Lens	2.8 mm, F1.6 Horizontal field of view: 110° Vertical field of view: 62° M12 mount, fixed iris See **Optional accessories** for exchangeable lenses
Day and night	Automatically removable infrared-cut filter
Minimum illumination	**Color:** 0.06 lux at 30 IRE F1.6 **B/W:** 0.01 lux at 30 IRE F1.6, 0 lux with IR illumination on **Color:** 0.12 lux at 50 IRE F1.6 **B/W:** 0.02 lux at 50 IRE F1.6, 0 lux with IR illumination on
Shutter speed	1/33500 s to 2 s
Camera angle adjustment	Pan: ±30° Tilt: 15-90° Rotation: ±175°

System on chip (SoC)

Model	ARTPEC-7
Memory	1 GB RAM, 512 MB Flash

Video

Video compression	H.264 (MPEG-4 Part 10/AVC) Baseline, Main and High Profiles H.265 (MPEG-H Part 2/HEVC) Main Profile Motion JPEG
Resolution	1280x960 to 160x120 1920x1080 to 160x90
WDR	Forensic WDR
Frame rate	Up to 25/30 fps (50/60 Hz) in all resolutions 45 fps in 720p Capture mode 2MP 1920x1080 (16:9) @25/30 fps Capture mode 1MP 1280x720 (16:9) @45 fps
Video streaming	Multiple, individually configurable streams in H.264, H.265 and Motion JPEG Axis Zipstream technology in H.264 and H.265 Controllable frame rate and bandwidth VBR/ABR/MBR H.264 and H.265 Video streaming indicator Low latency mode
Multi-view streaming	Up to 8 individually cropped out view areas
Image settings	Compression, brightness, sharpness, contrast, white balance, Forensic WDR, exposure control, exposure zones, fine tuning of behavior at low light, rotation: 0°, 90°, 180°, 270° including Corridor Format, dynamic overlay, 20 individual polygonal privacy mask, mirroring of images, defogging, electronic image stabilization[a] Scene profiles: forensic, vivid, traffic overview
Pan/Tilt/Zoom	Digital PTZ, preset positions, guard tour, control queue

Audio

Audio streaming	Audio in, simplex
Audio encoding	AAC- LC 8/16/32/44.1/48 kHz, G.711 PCM 8 kHz, G.726 ADPCM 8 kHz, Opus 8/16/48 kHz, LPCM 48 kHz Configurable bit rate
Audio input/output	External microphone input or line input, built-in microphone

Network

Network protocols	IPv4, IPv6 USGv6, HTTP, HTTPS, HTTP/2, TLS, QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP®, SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, NTS, RTSP, RTP, SRTP/RTSPS, TCP, UDP, IGMPv1/v2/v3, RTCP, ICMP, DHCPv4/v6, ARP, SSH, LLDP, CDP, MQTT v3.1.1, Secure syslog (RFC 3164/5424, UDP/TCP/TLS), Link-Local address (ZeroConf)

System integration

Application Programming Interface	Open API for software integration, including VAPIX® and AXIS Camera Application Platform; specifications at *axis.com* AXIS Video Hosting System (AVHS) with One-Click Connection One-click cloud connection
	ONVIF® Profile G, ONVIF® Profile M, ONVIF® Profile S and ONVIF® Profile T, specification at *onvif.org*
Event conditions	Device status: above operating temperature, above or below operating temperature, below operating temperature, IP address removed, network lost, new IP address, shock detected, storage failure, system ready, within operating temperature Edge storage: recording ongoing, storage disruption I/O: manual trigger, virtual input MQTT subscribe Scheduled and recurring: scheduled event Video: average bitrate degradation, day-night mode, live stream open, tampering
Event actions	Day-night mode Defog Guard tours Upload images or video clips: FTP, HTTP, HTTPS, SFTP, email and network share Notification: HTTP, HTTPS, TCP and email Overlay text Preset positions Record video: SD card and network share SNMP trap messages WDR mode MQTT publish
Data streaming	Event data
Built-in installation aids	Pixel counter

Analytics

Applications	Included AXIS Motion Guard, AXIS Fence Guard, AXIS Loitering Guard AXIS Video Motion Detection, active tampering alarm[b], blocked view detection[c], shock detection, audio detection Support for AXIS Camera Application Platform enabling installation of third-party applications, see*axis.com/acap*

Cybersecurity

Edge security	**Software:** Signed firmware, brute force delay protection, digest authentication and OAuth 2.0 RFC6749 OpenID Authorization Code Flow for centralized ADFS account management, password protection, AES-XTS-Plain64 256bit SD card encryption **Hardware:** Secure boot
Network security	IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2), IEEE 802.1AE (MACsec PSK/EAP-TLS), HTTPS/HSTS, TLS v1.2/v1.3, Network Time Security (NTS), X.509 Certificate PKI, host-based firewall
Documentation	*AXIS OS Hardening Guide* *Axis Vulnerability Management Policy* *Axis Security Development Model* AXIS OS Software Bill of Material (SBOM) To download documents, go to *axis.com/support/cybersecurity/resources* To read more about Axis cybersecurity support, go to *axis.com/cybersecurity*

General

Casing	IP66/67-, NEMA 250 4X- and IK10-rated aluminum casing, polycarbonate clear dome
Sustainability	PVC free
Mounting	Inside vehicles and rolling stock
Memory	
Power	Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 1 Class 3 IR illumination on: typical 6.6 W, max 11.8 W
Connectors	**RJ45:** male, 10BASE-T/100BASE-TX **M12:** female, rugged, D-coded with rotatable coupling nut All connectors support PoE 3.5 mm audio in connector, mono I/O 4-pin, 1 input, 1 output + 12 V DC/15 mA
IR illumination	OptimizedIR with power-efficient, long-life 940 nm IR LEDs Range of reach 15 m (49 ft) or more depending on the scene
Storage	Support for microSD/microSDHC/microSDXC card with UHS Speed Class U1 Support for SD card encryption (AES-XTS-Plain64 256bit) Support for recording to network-attached storage (NAS)

For SD card and NAS recommendations see *axis.com*

Operating conditions	Normal, IR off: –40 °C to 55°C (–40 °F to 131°F) Normal, IR on: –40 °C to 45°C (–22 °F to 113°F) Maximum (intermittent): 70 °C (158 °F) Arctic Temperature Control: start-up at –40 °C (–40 °F) Humidity: 10-100% RH (condensing)
Storage conditions	–40 °C to 65 °C (–40 °F to 149 °F)
Approvals	**EMC** EN 55032 Class A, EN 55035, EN 61000-6-1, EN 61000-6-2, FCC Part 15 Subpart B Class A, ICES-3(A)/NMB-3(A), VCCI Class A, RCM AS/NZS CISPR 32 Class A, KCC KN32 Class A, KN35, EN 50121-4, EN 50121-3-2, IEC 62236-4, ECE R10 rev.06 (E approval), EN 50498 **Safety** IEC/EN/UL 62368-1, CAN/CSA C22.2 No. 62368-1, EN 45545, UN ECE R118, NFPA 130, IEC 62471, IS 13252 **Environment** IEC/EN 61373 Category 1 Class B, IEC/EN 60529 IP66, IEC/EN 60529 IP67, parts of NEMA 250 Type 4X (ingress of water and gasket test), IEC/EN 62262 IK10, IEC 60721-3-5 Class 5M3 (vibration and shock), EN 50155:2017 OT2/ST2, IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-27, IEC 60068-2-64, IEC 60068-2-78 **Network** NIST SP500-267

Dimensions	Height: 49.4 mm (1.94 in), ø 110 mm (4.33 in)
Weight	**RJ45:** 400 g (0.88 lb) **M12:** 410 g (0.90 lb)
Included accessories	Installation guide, Windows® decoder 1-user license, drill hole template, lens tool, Resistorx® L-key
Optional accessories	**Lenses** Lens M12 2.1 mm F1.8 IR: horizontal field of view 145° Lens M12 3.6 mm F1.8 IR: horizontal field of view 87° Lens M12 6 mm, F1.9 IR: horizontal field of view 56° Lens M12 8 mm F1.8 IR: horizontal field of view 40° **Other** AXIS T94D02S Curved Mount Bracket, network coupler IP66, network cable coupler indoor For more accessories, see *axis.com*
Video management software	AXIS Companion, AXIS Camera Station, video management software from Axis' Application Development Partners available at *axis.com/vms*
Languages	English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Traditional Chinese, Dutch, Czech, Swedish, Finnish, Turkish, Thai, Vietnamese
Warranty	5-year warranty, see *axis.com/warranty*

a. *Use this function only when camera is directed to capture scenes outside of the vehicle*
b. *For detection of tampering attempts in static and non-crowded scenes.*
c. *For detection of tampering attempts in onboard environments.*

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