

AXIS M4327-P Panoramic Camera

6 MP indoor fisheye with deep learning

AXIS M4327-P can deliver 360° or 180° panoramic views at up to 30 fps with no blind spots. The camera can stream up to four individual view areas simultaneously, with support for digital PTZ. Built on ARTPEC-8, it offers powerful artificial intelligence and deep learning analytics on the edge. Plus, thanks to AXIS Object Analytics, it can accurately detect and classify moving objects for more effective monitoring. The camera is delivered factory-focused and features digital roll functionality for easy installation. Furthermore, it's compact, discreet, and repaintable to blend in with any surroundings.

- > 180°/360° view up to 30 fps
- > 6 MP with stereographic lens
- > Support for digital PTZ views
- > Digital roll for easy installation
- > Support for advanced analytics





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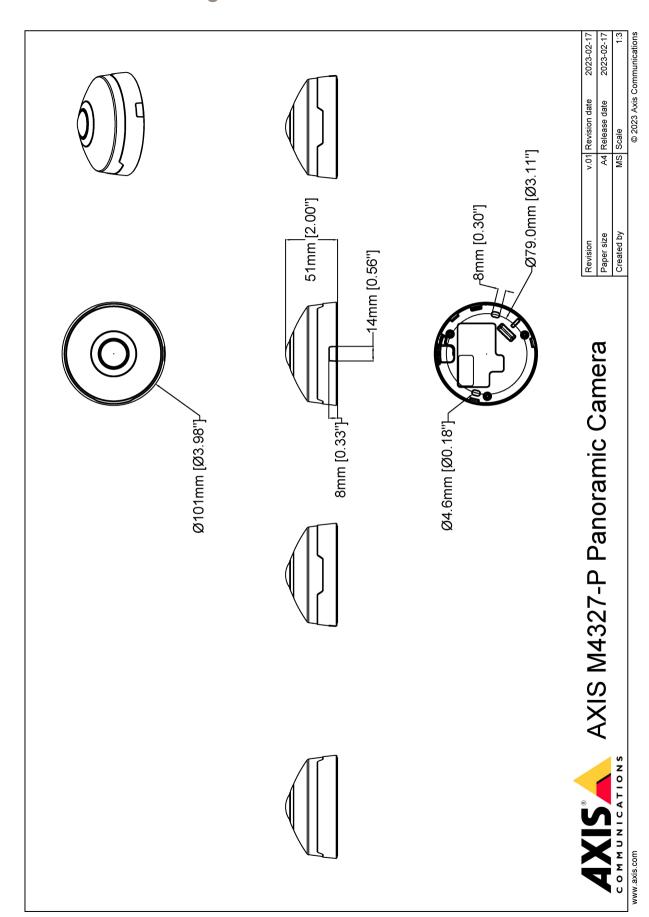
| Camera | | | ONVIF® Profile G, ONVIF® Profile M, ONVIF® Profile S, and | |
|----------------------------|--|---|---|--|
| Image sensor | 1/1.8" progressive scan RGB CMOS | ONVIF® Profile T, specifications at onvif.org | | |
| Lens | 1.1 mm, F2.2 Horizontal field of view: 182° Vertical field of view: 182° | Video | Support for Session Initiation Protocol (SIP) for integration w Voice over IP (VoIP) systems, peer to peer or integrated with SIP/PBX. Compatible with AXIS Companion, AXIS Camera Station, vide | |
| Day and night | Fixed iris, fixed focus, IR corrected Automatic IR-cut filter | management | management software from Axis' Application Development | |
| Minimum | Color: 0.16 lux at 50 IRE, F2.2 | systems | Partners available at axis.com/vms | |
| illumination | B/W: 0.03 lux at 50 IRE, F2.2 | Onscreen controls | Privacy masks Media clip | |
| Shutter speed | 1/33500 s to 1/5 s | Event conditions | Device status: above operating temperature, above or below | |
| Camera angle adjustment | Digital roll: ±180° | | operating temperature, below operating temperature, within operating temperature, IP address removed, new IP address, network lost, system ready, live stream active | |
| System on chip | (SoC) | | Edge storage: recording ongoing, storage disruption, storage | |
| Model | ARTPEC-8 | | health issues detected | |
| Memory | 2048 MB RAM, 8192 MB Flash | | I/O: manual trigger, virtual input MQTT: subscribe | |
| Compute capabilities | Deep learning processing unit (DLPU) | | Scheduled and recurring: schedule Video: average bitrate degradation, day-night mode, tampering | |
| Video | | Event actions | Day-night mode | |
| 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 | MQTT: publish Notification: HTTP, HTTPS, TCP and email Overlay text Recordings: SD card and network share SNMP traps: send, send while the rule is active Status LED Upload of images or video clips: FTP, SFTP, HTTP, HTTPS, netw share and email WDR mode | | |
| Resolution | Overview: 2160x2160 to 160x160 (1:1) Panorama: 2560x1440 to 192x72 (8:3, 16:9 or 32:9) Double panorama: 2560x1920 to 256x192 (4:3 or 16:9) Quad view: 2560x1920 to 256x192 (4:3 or 16:9) View area 1-4: 1920x1440 to 256x144 (4:3 or 16:9) Corner left/right: 2368x1184 to 192x72 (2:1 or 8:3) Double corner: 2016x2016 to 256x192 (1:1 or 4:3) Corridor: 2560x1920 to 256x144 (4:3 or 16:9) | | SNMP traps: send, send while the rule is active Status LED Upload of images or video clips: FTP, SFTP, HTTP, HTTPS, network share and email WDR mode | |
| | | Built-in installation aids | Pixel counter, digital roll, level grid | |
| Frame rate | 360° overview only up to max resolution without WDR: | Analytics | | |
| | 50/60 fps @ 50/60 Hz 360° overview and 4 dewarped views up to max resolution with WDR: up to 25/30 fps @ 50/60 Hz | Applications | Included AXIS Object Analytics, Scene metadata, AXIS Video Motion Detection, active tampering alarm | |
| 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 | | Supported AXIS People Counter Support for AXIS Camera Application Platform enabling installation of third-party applications, see axis.com/acap | |
| | VBR/ABR/MBR H.264/H.265 Video streaming indicator | AXIS Object Analytics | Object classes: humans, vehicles (types: cars, buses, trucks bikes) | |
| WDR | Forensic WDR: Up to 120 dB depending on scene | | Scenarios: line crossing, object in area Up to 10 scenarios | |
| Noise reduction | Spatial filter (2D noise reduction) Temporal filter (3D noise reduction) | | Up to 10 scenarios Other features: triggered objects visualized with trajectories, color-coded bounding boxes and tables Polygon include/exclude areas | |
| Image settings | Saturation, contrast, brightness, sharpness, local contrast, tone mapping, white balance, day/night threshold, exposure mode, exposure zones, compression, mirroring, dynamic text and image | Scene metadata | ONVIF Motion Alarm event Object classes: humans, faces, vehicles (types: cars, buses, | |
| Image processing | overlay, and polygon privacy mask Axis Zipstream, Forensic WDR | Seene metadata | trucks, bikes), license plates Object attributes: vehicle color, confidence, position | |
| Pan/Tilt/Zoom | Digital PTZ of view areas, digital PT of panorama, corner, corridor | Approvals | | |
| rany mry 200m | and quad views, preset positions, guard tours | | s CSA, UL/cUL, BIS, UKCA, CE, KC | |
| Audio | | Supply chain | TAA compliant | |
| Audio features | Network speaker pairing | EMC | EN 55032 Class A, EN 55035, EN 61000-6-1, EN 61000-6-2 | |
| Audio input/output | Audio features through portcast technology: two-way audio connectivity, voice enhancer | LIVIC | Australia/New Zealand: RCM AS/NZS CISPR 32 Class A Canada: ICES-3(A)/NMB-3(A) | |
| Network | | | Japan: VCCI Class A | |
| Network | IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPSa, HTTP/2, TLSa, | | Korea: KS C 9835, KS C 9832 Class A USA: FCC Part 15 Subpart B Class A | |
| protocols | 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, TCP, UDP, IGMPv1/v2/v3, RTCP, DHCPv4/v6, SSH, LLDP, CDP, MQTT v3.1.1, Syslog, Link-Local address (ZeroConf), IEEE 802.1X (EAP-TLS), IEEE 802.1AR | Safety | IEC/EN/UL 62368-1 ed. 3, CAN/CSA C22.2 No. 62368-1 ed. 3, IS 13252 | |
| | | Environment | IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-14 IEC 60068-2-27, IEC 60068-2-78 | |
| System integra | tion | Network | NIST SP500-267 | |
| Application | Open API for software integration, including VAPIX®, metadata | Cybersecurity | ETSI EN 303 645 | |
| Interface | and AXIS Camera Application Platform (ACAP); specifications at axis.com/developer-community. ACAP includes Native SDK and Computer Vision SDK. One-click cloud connection | 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: Axis Edge Vault cybersecurity platform Secure element (CC EAL 6+), system-on-chip security (TEE), Axis device ID, secure keystore, signed video, secure boot, encrypted filesystem (AES-XTS-Plain64 256bit) |
|----------------------|---|
| Network security | IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2) ^a , IEEE 802.1AE (MACsec PSK/EAP-TLS), IEEE 802.1AR, HTTPS/HSTS ^a , TLS v1.2/v1.3 ^a , Network Time Security (NTS), X.509 Certificate PKI, host-based firewall |
| Documentation | AXIS OS Hardening Guide Axis Vulnerability Management Policy Axis Security Development Model To download documents, go to axis.com/support/cybersecurity/resources To read more about Axis cybersecurity support, go to axis.com/cybersecurity |
| General | |
| Casing | Plastic casing, encapsulated electronics Color: white NCS S 1002-B For repainting instructions of the casing and information about the impact on warranty, contact your Axis partner. |
| Mounting | Mounting bracket with junction box holes (double-gang, single-gang, and 4" octagon) |
| Power | Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 1 Class 3 Typical 3.5 W, max 5.1 W |
| Connectors | Network: Shielded RJ45 10BASE-T/100BASE-TX POE Audio: Audio and I/O connectivity via portcast technology |
| Storage | Support for microSD/microSDHC/microSDXC card Recording to network-attached storage (NAS) For SD card and NAS recommendations, see axis.com |
| Operating conditions | 0 °C to 40 °C (32 °F to 104 °F) Humidity 10–85% RH (non-condensing) |
| Storage conditions | -40 °C to 65 °C (-40 °F to 149 °F) Humidity 5–95% RH (non-condensing) |
| Dimensions | Height: 51 mm (2.0 in) ø 101 mm (4.0 in) |
| Weight | 300 g (0.66 lb) |

| Box content | Camera, installation guide, owner authentication key |
|------------------------------|--|
| Optional accessories | AXIS TM3820 Vandal Casing (IK08, IP42 with cover hatch, IP41 without cover hatch) AXIS TM3210 Recessed Mount AXIS TM3211 Recessed Mount AXIS T94 mounting accessories AXIS T91 mounting accessories AXIS Surveillance Cards For more accessories, go to axis.com/products/axis-m4327-p#accessories |
| System tools | AXIS Site Designer, AXIS Device Manager, product selector, accessory selector, lens calculator Available at axis.com |
| Languages | English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Polish, Traditional Chinese, Dutch, Czech, Swedish, Finnish, Turkish, Thai, Vietnamese |
| Warranty | 5-year warranty, see axis.com/warranty |
| Part numbers | Available at axis.com/products/axis-m4327-p#part-numbers |
| Sustainability | |
| Substance control | PVC free, BFR/CFR free in accordance with JEDEC/ECA Standard JS709 ROHS in accordance with EU ROHS Directive 2011/65/EU/ and EN 63000:2018 REACH in accordance with (EC) No 1907/2006. For SCIP UUID, see axis.com/partner. |
| Materials | Renewable carbon-based plastic content: 73% (recycled) Screened for conflict minerals in accordance with OECD guidelines To read more about sustainability at Axis, go to axis.com/about-axis/sustainability |
| Environmental responsibility | axis.com/environmental-responsibility Axis Communications is a signatory of the UN Global Compact, read more at unglobalcompact.org |

a. This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (openssl.org), and cryptographic software written by Eric Young (eay@cryptsoft.com).

Dimension drawing



www.cxis.com T10186367/EN/M10.2/2402

Key features and technologies

AXIS Object Analytics

AXIS Object Analytics is a preinstalled, multifeatured video analytics that detects and classifies humans, vehicles, and types of vehicles. Thanks to Al-based algorithms and behavioral conditions, it analyzes the scene and their spatial behavior within – all tailored to your specific needs. Scalable and edge-based, it requires minimum effort to set up and supports various scenarios running simultaneously.

Axis Edge Vault

Axis Edge Vault is the hardware-based cybersecurity platform that safeguards the Axis device. It forms the foundation that all secure operations depend on and offers features to protect the device's identity, safeguard its integrity from factory and protect sensitive information from unauthorized access.

Establishing the root of trust starts at the device's boot process. In Axis devices, the hardware-based mechanism secure boot verifies the operating system (AXIS OS) that the device is booting from. AXIS OS, in turn, is cryptographically signed (signed firmware) during the build process. Secure boot and signed firmware tie into each other and ensure that the firmware has not been tampered with during the lifecycle of the device and that the device only boots from authorized firmware. This creates an unbroken chain of cryptographically validated software for the chain of trust that all secure operations depend on.

From a security aspect, the secure keystore is the critical building-block for protecting cryptographic information used for secure communication (IEEE 802.1X, HTTPS, Axis device ID, access control keys etc..) against malicious extraction in the event of a security breach. The secure keystore is provided through a Common Criteria and/or FIPS 140 certified hardware-based cryptographic computing module. Depending on security requirements, an Axis

device can have either one or multiple such modules, like a TPM 2.0 (Trusted Platform Module) or a secure element, and/or a system-on-chip (SoC) embedded Trusted Execution Environment (TEE).

Signed video ensures that video evidence can be verified as untampered without proving the chain of custody of the video file. Each camera uses its unique video signing key, which is securely stored in the secure keystore, to add a signature into the video stream. This allows video to be traced back to the Axis camera from where it originated, so it's possible to verify that the footage has not been tampered with after it left the camera.

To read more about Axis Edge Vault, go to axis.com/solutions/edge-vault.

Forensic WDR

Axis cameras with wide dynamic range (WDR) technology make the difference between seeing important forensic details clearly and seeing nothing but a blur in challenging light conditions. The difference between the darkest and the brightest spots can spell trouble for image usability and clarity. Forensic WDR effectively reduces visible noise and artifacts to deliver video tuned for maximal forensic usability.

Zipstream

The Axis Zipstream technology preserves all the important forensic in the video stream while lowering bandwidth and storage requirements by an average of 50%. Zipstream also includes three intelligent algorithms, which ensure that relevant forensic information is identified, recorded, and sent in full resolution and frame rate.

For more information, see axis.com/glossary

