

AXIS M4218-V Dome Camera

Varifocal 8 MP dome with deep learning

This compact and discreet dome delivers great image quality in superior 4K. Plus, thanks to WDR, it can handle difficult light conditions. A deep learning processing unit (DLPU) lets you take advantage of intelligent analytics based on deep learning on the edge. Designed to blend into any environment, it can be repainted and offers a range of accessories for discreet monitoring. Plus, it features an HDMI port and the flexibility to add audio and I/O connectivity using AXIS T61 Series. Furthermore, Axis Edge Vault provides a hardware-based cybersecurity platform that safeguards the device.

- > Great image quality in superior 4K
- > Varifocal lens with remote zoom and focus
- > WDR for difficult light conditions
- > Analytics with deep learning
- > HDMI output for public viewing monitors









AXIS M4218-V Dome Camera

| Camera | | | operating temperature, IP address removed, new IP address, | |
|--------------------------------|---|-------------------------------|---|--|
| Image sensor | 1/2.8" progressive scan RGB CMOS | | network lost, system ready, live stream active Edge storage: recording ongoing, storage disruption, storage health issues detected I/O: manual trigger, virtual input MQTT: subscribe Scheduled and recurring: schedule Video: average bitrate degradation, day-night mode, tampering | |
| Lens | Varifocal, 3.5–6.6 mm, F1.7 - 2.6 Horizontal field of view: 93°–47° Vertical field of view: 50°–26° Minimum focus distance: 1.5 m (59 in) | | | |
| Day and night | Automatic IR-cut filter | | | |
| Minimum illumination | Color: 0.24 lux at 50 IRE F1.7 B/W: 0.04 lux at 50 IRE F1.7 | Event actions | Day-night mode MOTT: publish | |
| Shutter speed | 1/71500 s to 1/5 s | | Notification: HTTP, HTTPS, TCP and email Overlay text | |
| Camera angle adjustment | | | Pre- and post-alarm video or image buffering for recording or upload Recordings: SD card and network share SNMP traps: send, send while the rule is active | |
| System on chip (SoC) | | | | |
| Model | CV25 | | Upload of images or video clips: FTP, SFTP, HTTP, HTTPS, network share and email | |
| Memory | 2048 MB RAM, 512 MB Flash | | WDR mode | |
| Compute capabilities | Deep learning processing unit (DLPU) | Built-in installation aids | Pixel counter, remote zoom and focus, level grid | |
| Video | Hook (MDEO + D + 40/M/O) M : HILL I D CI | Analytics | | |
| Video compression | H.264 (MPEG-4 Part 10/AVC) Main and High Profiles H.265 (MPEG-H Part 2/HEVC) Main Profile Motion JPEG | Applications | Included AXIS Object Analytics, AXIS Video Motion Detection, AXIS Live Privacy Shield | |
| Resolution | 3840x2160 to 320x240 | | Supported | |
| Frame rate | Up to 12.5/15 fps with power line frequency 50/60 Hz in H.264 and H.265 ^a | AVIS OL' | AXIS Camera Application Platform enabling installation of third-party applications, see axis.com/acap | |
| Video streaming | Multiple, individually configurable streams ^b Axis Zipstream technology in H.264 and H.265 Controllable frame rate and bandwidth VBR/ABR/MBR H.264/H.265 | AXIS Object Analytics | Object classes: humans, vehicles (types: cars, buses, trucks, bikes) Scenarios: line crossing, object in area, occupancy in area, time in area Up to 10 scenarios Other features: triggered objects visualized with color-coded bounding boxes | |
| Multi-view streaming | 2 individually cropped out view areas | | | |
| HDMI output | HDMI 1080p (16:9) @25/30 Hz refresh rate HDMI 720p (16:9) @50/60 Hz refresh rate | | Polygon include/exclude areas Perspective configuration ONVIF Motion Alarm event | |
| Noise reduction | Spatial filter (2D noise reduction) Temporal filter (3D noise reduction) | AXIS Scene Metadata | Object classes: humans, faces, vehicles (types: cars, buses, trucks, bikes), license plates | |
| Image settings | Compression, color, brightness, sharpness, contrast, white balance, exposure control, motion-adaptive exposure, WDR: up to 110 dB depending on scene, text and image overlay, mirroring | | Object attributes: vehicle color, upper/lower clothing color, confidence, position | |
| | of images, privacy mask Rotation: 0°, 90°, 180°, 270°, including Corridor Format | Approvals | CSA, UL/cUL, BIS, UKCA, CE, KC, EAC, VCCI, RCM | |
| Pan/Tilt/Zoom | Digital PTZ | EMC | CISPR 35, CISPR 32 Class A, EN 55035, EN 55032 Class A, | |
| Audio | | LIVIC | EN 61000-6-1, EN 61000-6-2 | |
| Audio | Audio features through portcast technology: two-way audio | | USA: FCC Part 15 Subpart B Class A Canada: ICES-3(A)/NMB-3(A) | |
| input/output | connectivity, voice enhancer | | Korea: KS C 9835, KS C 9832 Class A | |
| Network | ID.4 ID.6 LICC.6 ICMD.4/ICMD.6 LITTL LITTLE TIC O.C.L. | | Australia/New Zealand: RCM AS/NZS CISPR 32 Class A | |
| Network protocols | IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPS, TLS, QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP®, | Safety | Japan: VCCI Class A | |
| · | SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, NTS, RTSP, RTP, SRTP/RTSPS, TCP, UDP, IGMPv1/v2/v3, RTCP, ICMP, DHCP, | Environment | IEC/EN/UL 62368-1, CAN/CSA C22.2 No. 62368-1, IS 13252 IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-14, IEC 60068-2-27, IEC/EN 60529 IP42, IEC/EN 62262 IK08 | |
| System integra | ARP, SSH, LLDP, CDP, MQTT v3.1.1, Link-Local address (ZeroConf) | Network | NIST SP500-267 | |
| Application | Open API for software integration, including VAPIX® and | Cybersecurity | ETSI EN 303 645 | |
| Programming | AXIS Camera Application Platform; specifications at axis.com | Cybersecurity | 2.3. 2.1. 000 0.10 | |
| Interface | One-click cloud connection | Edge security | Software: Signed OS, brute force delay protection, digest | |
| - VC I | ONVIF® Profile G, M, S and T, specification at <i>onvif.org</i> Support for Session Initiation Protocol (SIP) for integration with Voice over IP (VoIP) systems, peer to peer or integrated with SIP/PBX. | , | 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) | |
| Video management systems | Compatible with AXIS Companion, AXIS Camera Station, video management software from Axis' Application Development Partners available at axis.com/vms | | | |
| Onscreen controls | Privacy masks Media clip | Network security | IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2), | |
| Event conditions | Application Device status: above operating temperature, above or below | | IEEE 802.1AE (MACsec PSK/EAP-TLS), IEEE 802.1AR, HTTPS/HSTS, TLS v1.2/v1.3, Network Time Security (NTS), X.509 Certificate PKI, host-based firewall | |
| | operating temperature, below operating temperature, within | Documentation | AXIS OS Hardening Guide Axis Vulnerability Management Policy | |

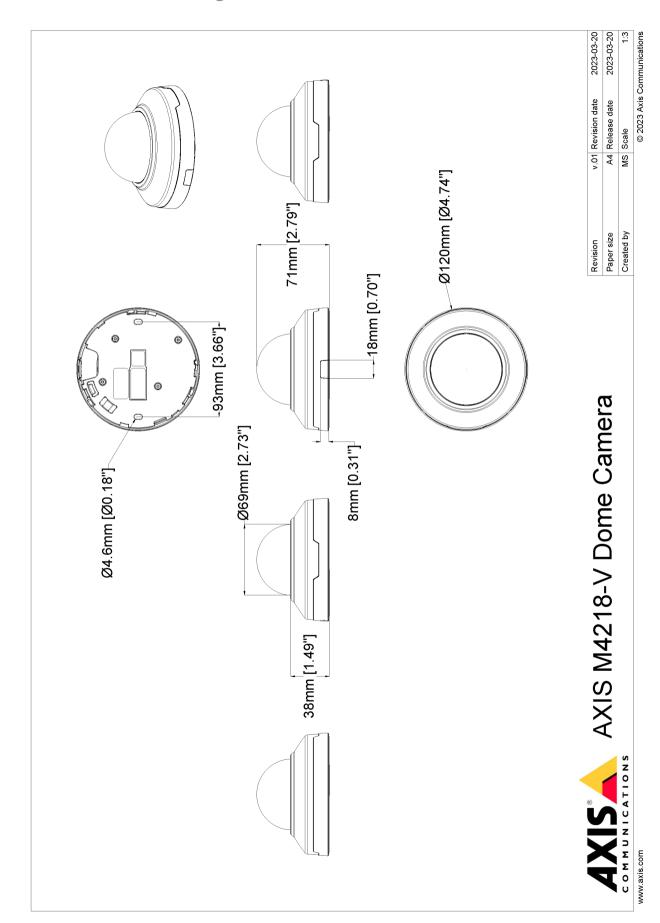
| | rity/resources To read more about Axis cybersecurity support, go to axis.com/cybersecurity |
|-----------------------|---|
| General | |
| Casing | IP42 ingress protection, IK08 impact-resistant, polycarbonate and aluminum casing with hard-coated dome Encapsulated electronics Color: white NCS S 1002-B For repainting instructions of casing and impact on warranty, contact your Axis partner. |
| Power | Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 1 Class 2 Typical 3 W, max 4.8 W |
| Connectors | RJ45 10BASE-T/100BASE-TX PoE HDMI type D 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 recorder recommendations, see axis.com |
| Operating conditions | 0 °C to 40 °C (32 °F to 104 °F) Humidity 10–85% RH (non-condensing) |
| Storage conditions | -30 °C to 65 °C (-22 °F to 149 °F) Humidity 5–95% RH (non-condensing) |
| Dimensions | Height: 71 mm (2.8 in) ø 120 mm (4.72 in) |
| Weight | 356 g (0.78 lb) |
| Box content | Camera, installation guide, owner authentication key, virtual client license for H.264/H.265 |
| Optional accessories | AXIS T8415 Wireless Installation Tool AXIS TM4201 Recessed Mount AXIS TM3207 Recessed Mount AXIS T94C01L Recessed Mount AXIS T94C01U Universal Mount AXIS T94C01M J-Box/Gang Box Plate AXIS M42 Casing A Black 4P |

Axis Security Development Model AXIS OS Software Bill of Material (SBOM) To download documents, go to axis.com/support/cybersecu-

| | AXIS M42 Smoked Dome A 4P AXIS T91A33 Lighting Track Mount AXIS T91A23 Tile Grid Ceiling Mount AXIS TM4101 Pendant Kit AXIS TM3101 Pendant Wall Mount AXIS Surveillance Cards For more accessories, go to axis.com/products/axis-m4218-v#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-m4218-v#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 echa.europa.eu | | |
| | see cena.curopa.cu | | |
| Materials | Renewable carbon-based plastic content: 38.9% (recycled) Screened for conflict minerals in accordance with OECD guidelines To read more about sustainability at Axis, go to axis.com/about-axis/sustainability | | |

<sup>a. Reduced frame rate in Motion JPEG
b. We recommend a maximum of 3 unique video streams per camera or channel, for optimized user experience, network bandwidth, and storage utilization. A unique video stream can be served to many video clients in the network using multicast or unicast transport method via built-in stream reuse functionality.</sup>

Dimension drawing



Detect, Observe, Recognize, Identify (DORI)

| | DORI definition | Distance (wide) | Distance (tele) |
|-----------|---------------------|--------------------|----------------------|
| Detect | 25 px/m (8 px/ft) | 97.57 m (320.0 ft) | 184.48 m (605.09 ft) |
| Observe | 63 px/m (19 px/ft) | 38.71 m (127.0 ft) | 73.20 m (240.1 ft) |
| Recognize | 125 px/m (38 px/ft) | 19.50 m (63.96 ft) | 36.89 m (121.0 ft) |
| Identify | 250 px/m (76 px/ft) | 9.72 m (31.9 ft) | 18.43 m (60.45 ft) |

The DORI values are calculated using pixel densities for different use cases as recommended by the EN-62676-4 standard. The calculations use the center of the image as the reference point and consider lens distortion. The possibility to recognize or identify a person or object depends on factors such as object motion, video compression, lighting conditions, and camera focus. Use margins when planning. The pixel density varies across the image, and the calculated values can differ from the distances in the real world.

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Highlighted capabilities

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 offer features to protect the device's identity, safeguard its integrity and protect sensitive information from unauthorized access. For instance, secure boot ensures that a device can boot only with signed OS, which prevents physical supply chain tampering. With signed OS, the device is also able to validate new device software before accepting to install it. And 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 secu-

rity breach. The secure keystore and secure connections are provided through a Common Criteria or FIPS 140 certified hardware-based cryptographic computing module.

Furthermore, signed video ensures that video evidence can be verified as untampered. Each camera uses its unique video signing key, which is securely stored in the secure keystore, to add a signature into the video stream allowing video to be traced back to the Axis camera from where it originated.

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

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

