

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	
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		Video: average bitrate degradation, day-night mode, tampering	
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 MQTT: publish	
Shutter speed	1/71500 s to 1/5 s		Notification: HTTP, HTTPS, TCP and email Overlay text	
Camera 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	
Memory	2048 MB RAM, 512 MB Flash		share and email WDR mode	
Compute capabilities	Deep learning processing unit (DLPU)	Built-in installation aids	Pixel counter, remote zoom and focus, level grid	
Video		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	AVIC Object	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		
Pan/Tilt/Zoom	Digital PTZ		S CSA, UL/cUL, BIS, UKCA, CE, KC, EAC, VCCI, RCM	
Audio	Jigital 112	EMC	CISPR 35, CISPR 32 Class A, EN 55035, EN 55032 Class A, 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	
input/output	connectivity, voice enhancer		Canada: ICES-3(A)/NMB-3(A) Korea: KS C 9835, KS C 9832 Class A	
Network Network	ID. A. ID. C. LICCUC, ICMD. A./ICMD. C. LITTO LITTOC TIC Occ. Louise		Australia/New Zealand: RCM AS/NZS CISPR 32 Class A	
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	213. 21. 000 010	
Interface	One-click cloud connection ONVIF® Profile G, M, S and T, specification at <i>onvif.org</i> Support for Session Initiation Protocol (SIP) for integration with	Edge security	Software: Signed OS, brute force delay protection, digest authentication and OAuth 2.0 RFC6749 OpenID Authorization	
	Voice over IP (VoIP) systems, peer to peer or integrated with SIP/PBX.		Code Flow for centralized ADFS account management, password protection, AES-XTS-Plain64 256bit SD card encryption Hardware: Axis Edge Vault cybersecurity platform	
Video management systems	Compatible with AXIS Camera Station Edge, AXIS Camera Station Pro, AXIS Camera Station 5, and video management software from Axis' partners available at axis.com/vms.		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)	
Onscreen controls	Privacy masks Media clip	Network security	IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2),	
Event conditions	·		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	

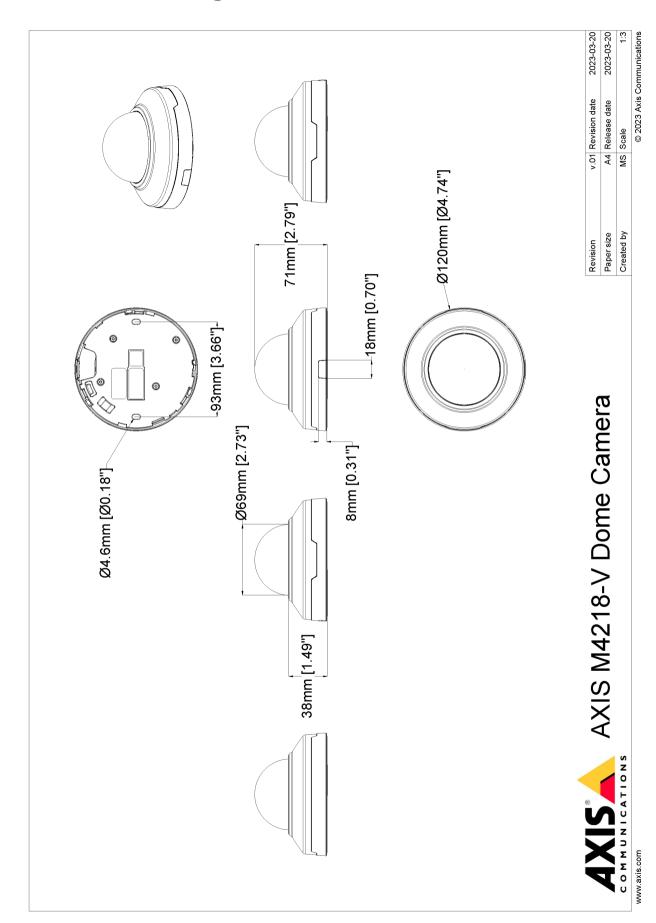
	rity/resources To read more about Axis cybersecurity support, go to axis.com/cybersecurity
General	
Casing	IP42 ingress protection, IK08 impact-resistant, polycarbonate and aluminum casing with hard-coated dome Encapsulated electronics Color: white NCS S 1002-B For repainting instructions of casing and 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 <i>axis.com</i>
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 M42 Smoked Dome A 4P

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

	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 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	
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	
Environmental responsibility	axis.com/environmental-responsibility Axis Communications is a signatory of the UN Global Compact, read more at unglobalcompact.org	

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.

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.

www.cxis.com T10192997/EN/M15.2/2501

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

