

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 dif-cult 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 exibility 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			I/O: manual trigger, virtual input	
Image sensor 1/2.8" progressive scan RGB CMOS		_	MQTT: subscribe	
Lens	Varifocal, 3.5–6.6 mm, F1.7 - 2.6		Scheduled and recurring: schedule Video: average bitrate degradation, day-night mode, tampering	
	Horizontal eld of view: 93°-47° Vertical eld of view: 50°-26°	Event actions	Day-night mode	
	Minimum focus distance: 1.5 m (59 in)		MQTT: publish Noti cation: HTTP, HTTPS, TCP and email	
Day and night	Automatic IR-cut Iter		Overlay text	
Minimum illumination	Color: 0.24 lux at 50 IRE F1.7 B/W: 0.04 lux at 50 IRE F1.7, 0 lux when IR illumination is on		Pre- and post-alarm video or image buffering for recording or upload	
Shutter speed	1/71500 s to 1/5 s		Recordings: SD card and network share SNMP traps: send, send while the rule is active	
Camera angle adjustment	Pan ±180°, tilt -40 to +65°, rotation ±105° Can be directed in any direction and see the wall/ceiling		Upload of images or video clips: FTP, SFTP, HTTP, HTTPS, network share and email WDR mode	
System on chip	o (SoC)	D. H. L.		
Model	CV25	Built-in installation aids	Pixel counter, remote zoom and focus, level grid	
Memory	2048 MB RAM, 512 MB Flash	Analytics		
Compute capabilities	Deep learning processing unit (DLPU)	AXIS Object Analytics	Object classes: humans, vehicles (types: cars, buses, trucks, bikes)	
Video		Allalytics	Features : line crossing, object in area, occupancy in area ^{BETA} ,	
Video compression	H.264 (MPEG-4 Part 10/AVC) Main and High Pro les H.265 (MPEG-H Part 2/HEVC) Main Pro le Motion JPEG		time in area ^{BETA} Up to 10 scenarios Metadata visualized with color-coded bounding boxes	
Resolution	3840x2160 to 320x240		Polygon include/exclude areas Perspective con guration	
Frame rate	Up to 12.5/15 fps with power line frequency 50/60 Hz in H.264 and H.265 ^a	Metadata	ONVIF Motion Alarm event Con dence, position	
Video streaming	Multiple, individually con gurable streams ^b Axis Zipstream technology in H.264 and H.265 Controllable frame rate and bandwidth VBR/ABR/MBR H.264/H.265		Object data: Classes: humans, faces, vehicles (types: cars, buses trucks, bikes), license plates Event data: Producer reference, scenarios, trigger conditions	
Multi-view streaming	2 individually cropped out view areas	Applications	Included AXIS Object Analytics, AXIS Video Motion Detection, AXIS Face Detector, AXIS Live Privacy Shield, active tampering	
HDMI output	HDMI 1080p (16:9) @25/30 fps (50/60 Hz) HDMI 720p (16:9) @50/60 fps (50/60 Hz)		alarm Supported AXIS Camera Application Platform enabling installation of	
Noise reduction	Spatial Iter (2D noise reduction) Temporal Iter (3D noise reduction)	Approvals	third-party applications, see axis.com/acap	
Image settings	Compression, color, brightness, sharpness, contrast, white	Approvals Product markings CSA, UL/cUL, BIS, UKCA, CE, KC, EAC, VCCI, RCM		
3	balance, exposure control, motion-adaptive exposure, WDR: up to 110 dB depending on scene, text and image overlay, mirroring of images, privacy mask Rotation: 0°, 90°, 180°, 270°, including Corridor Format	EMC	CISPR 35, CISPR 32 Class A, EN 55035, EN 55032 Class A, EN 61000-6-1, EN 61000-6-2 USA: FCC Part 15 Subpart B Class A	
Pan/Tilt/Zoom	Digital PTZ		Canada: ICES-3(A)/NMB-3(A) Korea: KS C 9835, KS C 9832 Class A	
Audio			Australia/New Zealand: RCM AS/NZS CISPR 32 Class A	
Audio	Audio features through portcast technology: two-way audio		Japan: VCCI Class A	
input/output	connectivity, voice enhancer	Safety	IEC/EN/UL 62368-1, CAN/CSA C22.2 No. 62368-1, IS 13252	
Network Network	IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPS, 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, DHCP,	Environment	IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-1 IEC 60068-2-27, IEC/EN 60529 IP42, IEC/EN 62262 IK08	
protocols		Network	NIST SP500-267	
		Cybersecurity		
	ARP, SSH, LLDP, CDP, MQTT v3.1.1, Link-Local address (ZeroConf)	Edge security	Software: Signed rmware, brute force delay protection, digest authentication, password protection, AES-XTS-Plain64 256bit	
System integra			SD card encryption	
Application Programming Interface	Open API for software integration, including VAPIX® and AXIS Camera Application Platform; speci cations at axis.com One-click cloud connection ONVIF® Pro le G, M, S and T, speci cation at onvif.org		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 lesystem (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	Network security	IEEE 802.1X (EAP-TLS), IEEE 802.1AR, HTTPS/HSTS, TLS v1.2/v1.3 Network Time Security (NTS), X.509 Certi cate PKI, IP address Itering	
Onscreen controls	Privacy masks Media clip	Documentation	AXIS OS Hardening Guide Axis Vulnerability Management Policy	
Event conditions	Application Device status: above operating temperature, above or below operating temperature, below operating temperature, within operating temperature, IP address removed, now IP address, network lost, system ready, live stream active Edge storage: recording ongoing, storage disruption, storage health issues detected		Axis Security Development Model AXIS OS Software Bill of Material (SBOM) To download documents, go to axis.com/support/cybersecurity/resources	

	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		
Storage conditions		
Dimensions	Height: 71 mm (2.8 in) ø 120 mm (4.72 in)	
Weight	356 g (0.78 lb)	

Camera, installation guide, owner authentication key, virtual client license for H.264/H.265

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 T91A33 Lighting Track Mount

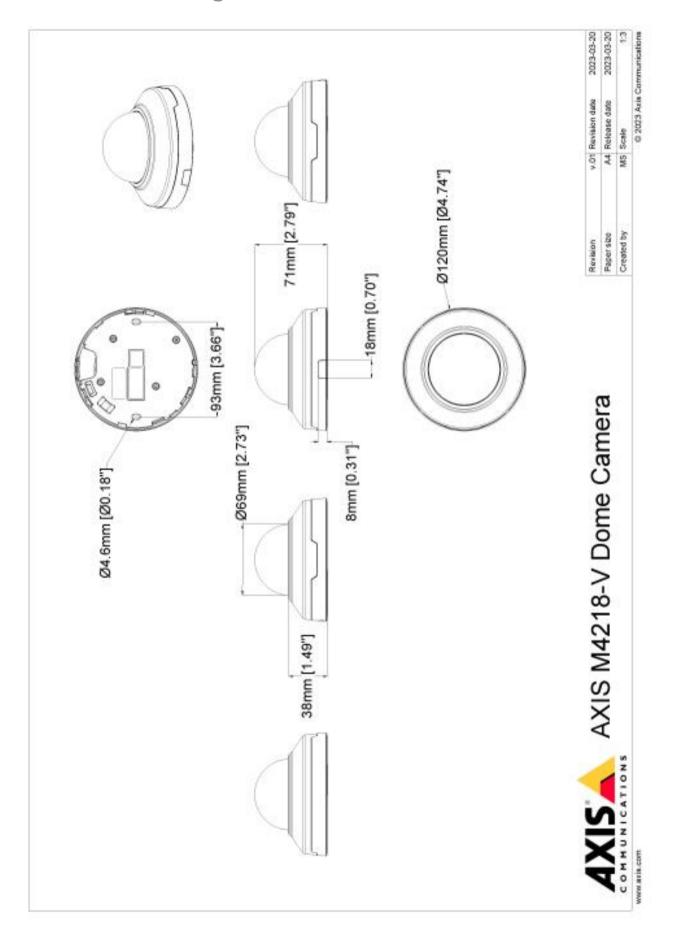
Box content

Optional accessories To read more about Axis cybersecurity support, go to

	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, Simpli ed 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 <i>echa.europa.eu</i>			
Materials	Renewable carbon-based plastic content: 38.9% (recycled) Screened for con ict 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 de nition	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.axis.com T10192997/EN/M3.13/2306

Key features and technologies

AXIS Object Analytics

AXIS Object Analytics is a preinstalled, multifeatured video analytics that detects and classi es 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 speci c 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 offers features to guarantee the device's identity and integrity and to protect your 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** veri es the operating system (AXIS OS) that the device is booting from. AXIS OS, in turn, is cryptographically signed (**signed rmware**) during the build process. Secure boot and signed rmware tie into each other and ensure that the rmware has not been tampered with during the lifecycle of the device and that the device only boots from authorized rmware. 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 certi ed 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 veri ed as untampered without proving the chain of custody of the video le. 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.

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

