

AXIS M4318-PLVE Panoramic Camera

12 MP dome with 360° view and deep learning

With a 12 MP sensor, this discreet mini dome offers excellent image quality and a complete 180° or 360° overview. Featuring a stereographic lens and Sharpdome 360, it delivers greater sharpness at the edges of the image. Built-in IR illumination with individually controllable LEDs ensures clear, reflection-free footage and excellent image quality even in low light or complete darkness. A deep learning processing unit enables unique opportunities for analytics based on deep learning. Plus, AXIS Object Analytics can detect and classify humans, vehicles, and types of vehicles. Furthermore, Axis Edge Vault protects your Axis device ID and simplifies authorization of Axis devices on your network.

- > Complete 180° and 360° overview
- > Built-in IR with individual IR LEDs
- > Support for deep learning analytics
- > Built-in cybersecurity features
- > Digital roll for ease of installation





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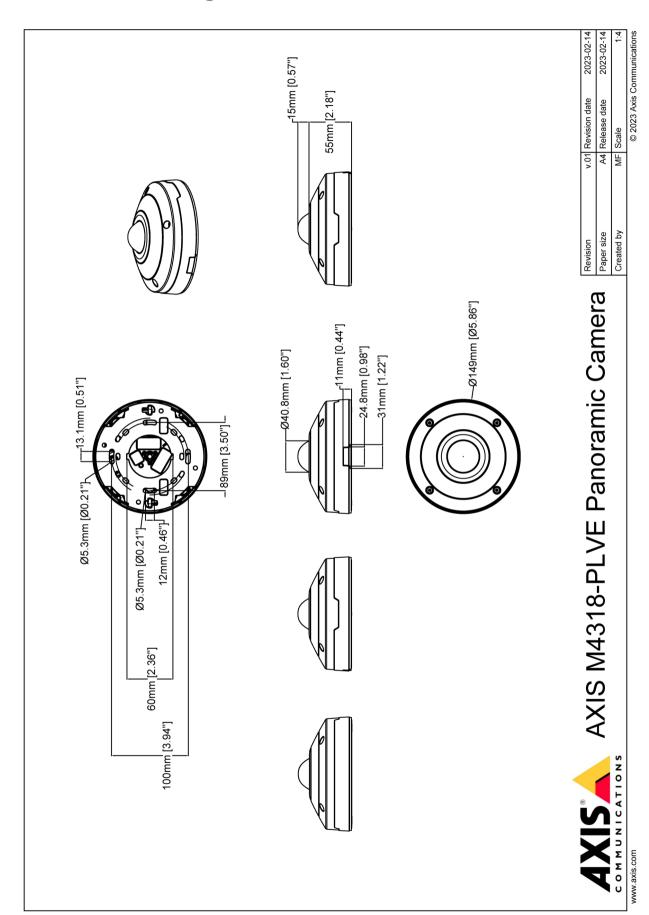
Camera			ONVIF® Profile G, ONVIF® Profile M, ONVIF® Profile S, and	
Image sensor	nge sensor 1/2.3" progressive scan RGB CMOS		ONVIF® Profile T, specification at onvif.org	
Lens	Focal length: 1.2 mm, F2.2 Horizontal field of view: 182° Vertical field of view: 182°	Video	Support for Session Initiation Protocol (SIP) for integration with Voice over IP (VoIP) systems, peer to peer or integrated with SIP/PBX. Compatible with AXIS Companion, AXIS Camera Station, video	
Day and night	Fixed iris, IR corrected, fixed focus Automatic IR-cut filter	management	management software from Axis' Application Development	
Minimum	Color: 0.19 lux at 50 IRE, F2.2	systems	Partners available at axis.com/vms	
illumination	B/W: 0.04 lux at 50 IRE, F2.2 0 lux with IR illumination on	Onscreen controls	Privacy masks IR illumination Media clip	
Shutter speed	1/8100 s to 0.5 s	Event conditions		
Camera angle adjustment	Digital roll: ± 180°		operating temperature, below operating temperature, casing open, IP address removed, live stream active, network lost, new IP address, system ready, within operating temperature	
System on chip (SoC) Edge storage: recording ongoing, storage disrup				
Model	ARTPEC-8		health issues detected I/O: digital input is active, manual trigger,	
Memory	2048 MB RAM, 8192 MB Flash		virtual input is active	
Compute capabilities	Deep learning processing unit (DLPU)		MQTT: stateless Scheduled and recurring: schedule Video: average bitrate degradation, day-night mode, tampering	
Video	H 204 (MDFC 4 Dort 10/A)/O) Daralina Main and High Durfler	Event actions	3 3 1 3 1 3	
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	I/O: toggle once, toggle while the rule is active Illumination: use lights, use lights while the rule is active		
Resolution	Overview: 2992x2992 to 160x160 Panorama: 3840x2160 to 192x72 Double Panorama: 3584x2688 to 512x288 Quad view: 3584x2688 to 384x288 View area 1-4: 2048x1536 to 256x144 Corner right and left: 3200x1200 to 192x72 Double corner: 2880x2880 to 384x288 Corridor: 2560x1920 to 256x144		Images: FTP, HTTP, HTTPS, SFTP, email and network share MQTT: publish Notification: HTTP, HTTPS, TCP and email Overlay text: use, use while the rule is active Recordings: record video, record video while the rule is active SNMP trap messages: send, send while the rule is active Status LED: flash, flash while the rule is active Video clips: FTP, HTTP, HTTPS, SFTP, email and network share WDR mode: set, set while the rule is active	
Frame rate	360° overview up to 2992x2992 without WDR: 25/30 fps @(50/60 Hz)	Built-in installation aids	Pixel counter, level grid, digital roll	
	360° overview and dewarped views up to max resolution with WDR: up to 25/20 fps @(50/60 Hz)	Analytics		
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/H.265 Video streaming indicator	AXIS Object Analytics	Object classes: humans, vehicles (types: cars, buses, trucks, bikes) Scenarios: line crossing, object in area, occupancy in area Up to 10 scenarios Metadata visualized with trajectories, color-coded bounding boxes and tables Polygon include/exclude areas	
WDR	Forensic WDR: Up to 120 dB depending on scene		ONVIF Motion Alarm event	
Noise reduction	Spatial filter (2D noise reduction) Temporal filter (3D noise reduction)	Metadata Object data: Classes: humans, faces, vehicles (types: cars, buses trucks, bikes)		
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 expelled to the property mark	Applications	Attributes: Vehicle color, confidence, position Event data: Producer reference, scenarios, trigger conditions Included	
Image processing	overlay, polygon privacy mask Axis Zipstream, Forensic WDR, Lightfinder, OptimizedIR		AXIS Object Analytics, AXIS Video Motion Detection, active tampering alarm	
Pan/Tilt/Zoom	Digital PTZ of view areas, digital PT of panorama, corner, corridor		Supported	
ranymyzoom	and quad views, preset positions, guard tours		Support for AXIS Camera Application Platform enabling installation of third-party applications, see axis.com/acap	
Audio		Approvals	instantation of time party applications, see assistent, acap	
Audio features	Network speaker pairing		s CSA, UL/cUL, BIS, UKCA, CE, KC	
Audio input/output	Audio features through portcast technology: two-way audio connectivity, voice enhancer	Supply chain	TAA compliant	
Network	Connectivity, voice ciniancei	EMC	EN 55035, EN 55032 Class A, EN 50121-4, EN 61000-6-1,	
Network protocols	IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPS ^a , HTTP/2, TLS ^a , 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, DHCPv4/v6, SSH, LLDP, CDP, MQTT v3.1.1, Syslog, Link-Local address (ZeroConf), IEEE 802.1X (EAP-TLS), IEEE 802.1AR		EN 61000-6-2, EN 61547 Australia/New Zealand: RCM AS/NZS CISPR 32 Class A Canada: ICES-3(A)/NMB-3(A) Japan: VCCI Class A Korea: KS C 9835, KS C 9832 Class A USA: FCC Part 15 Subpart B Class A Railway: IEC 62236-4	
System integra		Safety	IEC/EN/UL 62368-1 ed. 3, CAN/CSA C22.2 No. 62368-1 ed. 3,	
Application Programming Interface	Open API for software integration, including VAPIX®, metadata and AXIS Camera Application Platform (ACAP); specifications at axis.com/developer-community. ACAP includes Native SDK and Computer Vision SDK. One-click cloud connection	Environment	IEC/EN 62471 risk group exempt, UN ECE R118, IS 13252 IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-14, IEC 60068-2-7, IEC 60068-2-78, IEC/EN 62262 IK10, IEC/EN 60529 IP66, ISO 4892-2, NEMA 250 Type 4X, NEMA TS 2 (2.2.7-2.2.9), ISO 21207 (Method B)	

Network	NIST SP500-267
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 802.1AR, HTTPS/HSTS ^a , TLS v1.2/v1.3 ^a , Network Time Security (NTS), X.509 Certificate PKI, IP address filtering
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-, NEMA 4X- and IK10-rated Polycarbonate hard-coated dome Aluminum Color: white NCS S 1002-B Repaintable skin cover accessory
Mounting	Mounting bracket with junction box holes (double-gang, single-gang, and 4" octagon) 1/4"-20 UNC tripod screw thread
Power	Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 1 Class 3 Typical 6.4 W, max 12.95 W
Connectors	Network: Shielded RJ45 10BASE-T/100BASE-TX PoE I/O: Terminal block for 1 supervised alarm input and 1 output (12 VDC output, max. load 25 mA) Audio: Audio and I/O connectivity via portcast technology
IR illumination	OptimizedIR with power-efficient, long-life 850 nm IR LEDs Range of reach 15 m (49.2 ft) depending on the scene
Storage	Support for microSD/microSDHC/microSDXC card Recording to network-attached storage (NAS) For SD card and NAS recommendations see <i>axis.com</i>
Operating conditions	-40 °C to 50 °C (-40 °F to 122 °F) Start-up temperature: -30 °C Humidity 10-100% RH (condensing)

AXIS TM3814 Skin Cover Black, AXIS TM3204 Recessed Mount, AXIS TM3206 Recessed Mount, AXIS Mounts and Cabinets, AXIS Surveillance Cards For more accessories, go to axis.com/products/axis-m4318-plve#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-m4318-plve#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: 29.6% (bio-based) 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 Communications is a signatory of the UN Global Compact, read more at unglobalcompact.org					
Weight 860 g (1.9 lb) Box content Camera, installation guide, terminal block connector, connector guard, cable gaskets, cable hole lid, owner authentication key Optional AXIS T8415 Wireless Installation Tool, AXIS T94T02D Pendant kit, AXIS TM3206 Recessed Mount, AXIS TM3206 Recessed Mount, AXIS Mounts and Cabinets, AXIS Surveillance Cards For more accessories, go to axis.com/products/axis-m4318-plve#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-m4318-plve#part-numbers Sustainacbility 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/patner. Materials Renewable carbon-based plastic content: 29.6% (bio-based) Screened for conflict minerals in accordance with OECD guidelines To read more about sustainability at Axis, go to axis.com/environmental-responsibility Environmental responsibility Axis Communications is a signatory of the UN Global Compact, read more at unglobalcompact.org					
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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. 0XIS.COM T10175302/EN/M4.2/2311

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.

Lightfinder

The Axis Lightfinder technology delivers high-resolution, full-color video with a minimum of motion blur even in near darkness. Because it strips away noise, Lightfinder makes dark areas in a scene visible and captures details in very low light. Cameras with Lightfinder discern color in low light better than the human eye. In surveillance, color may be the critical factor to identify a person, an object, or a vehicle.

OptimizedIR

Axis OptimizedIR provides a unique and powerful combination of camera intelligence and sophisticated LED technology, resulting in our most advanced camera-integrated IR solutions for complete darkness. In our pan-tilt-zoom (PTZ) cameras with OptimizedIR, the IR beam automatically adapts and becomes wider or narrower as the camera zooms in and out to make sure that the entire field of view is always evenly illuminated.

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

