

AXIS P3738-PLE Panoramic Camera

4x 4K multidirectional with deep learning

This multidirectional camera offers four channels with 4K per channel to deliver excellent overviews and detailed coverage. It includes 360° IR illumination for clear, reflection–free footage and excellent image quality even in low light or complete darkness. This flexible camera offers various mounting options. For instance, it can be recessed mounted for discreet surveillance or mounted in ceilings for complete 360° coverage. With highly efficient power consumption, it ensures lower operating costs. It also supports powerful analytics based on deep learning. Furthermore, Axis Edge Vault, a hardware-based cybersecurity platform, guarantees the device's integrity and protects it from unauthorized access.

- > 4x 4K at 15 fps per channel
- > 360° IR illumination with individually controlled LEDs
- > Flexible mounting options
- > Support for advanced analytics
- > Axis Edge Vault safeguards the device



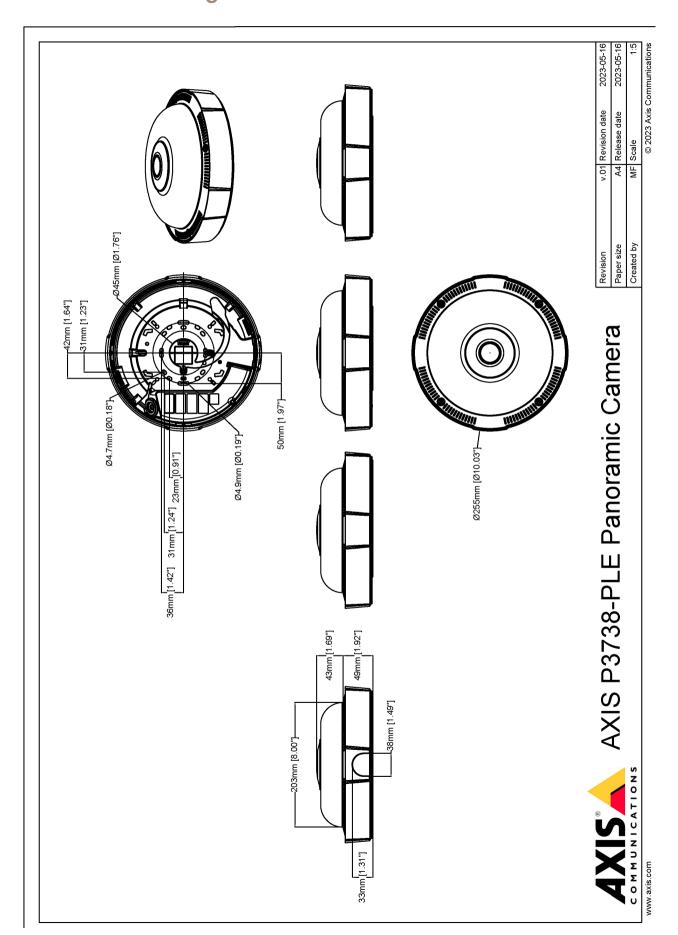


AXIS P3738-PLE Panoramic Camera

Camera			ONVIF® Profile G, ONVIF® Profile M, ONVIF® Profile S, and	
Image sensor	4x 1/2.8" progressive scan RGB CMOS Pixel size 1.45 μm	\rangle 1	ONVIF® Profile T, specifications at <i>onvif.org</i>	
Lens	Varifocal, 3.2–8.1 mm, F1.9–3.2	Video management	Compatible with AXIS Companion, AXIS Camera Station, video management software from Axis' Application Development	
20.13	Horizontal field of view: 108°-40°	systems	Partners available at axis.com/vms	
	Vertical field of view: 55°-23° Diagonal field of view: 131°-46°	Onscreen controls	Autofocus Video streaming indicator	
	Minimum focus distance: 0.5 m (1.6 ft)	Controls	IR illumination	
Day and night	Fixed iris, IR corrected, remote zoom and focus Automatic IR-cut filter		Privacy masks Media clip	
Minimum	Color: 0.19 lux at 50 IRE, F1.9	Edge-to-edge	Speaker pairing	
illumination	B/W: 0 lux at 50 IRE, F1.9 0 lux with IR illumination on	Event conditions	operating temperature, below operating temperature, within operating temperature, IP address removed, new IP address, network lost, system ready, live stream active, casing open Edge storage: recording ongoing, storage disruption, storage health issues detected I/O: manual trigger, virtual input	
Shutter speed	WDR on: 1/8000 s to 2 s WDR off: 1/16000 s to 2 s			
Camera angle adjustment	Pan ±90°, tilt +25 to +95°, rotation -5° to +95°, twist ±20°			
System on chip			MQTT: stateless Scheduled and recurring: schedule	
Model	ARTPEC-8		Video: average bitrate degradation, day-night mode, tampering	
Memory	4096 MB RAM, 8192 MB Flash	Event actions	Day-night mode Illumination: use lights, use lights while the rule is active MQTT: publish Notification: HTTP, HTTPS, TCP, and email	
Compute capabilities	Deep learning processing unit (DLPU)			
Video Video	H 204 (MDFC 4 Port 10/A)/C) Posting Adding and High P. C.		Overlay text	
compression	H.264 (MPEG-4 Part 10/AVC) Baseline, Main and High Profiles H.265 (MPEG-H Part 2/HEVC) Main Profile Motion JPEG		Recordings: record, record while the rule is active SNMP traps: send, send while the rule is active Status LED: flash, flash while the rule is active Upload of images or video clips: FTP, SFTP, HTTP, HTTPS, network share, and email	
Resolution	4x 3840x2160 (4x 4K) to 4x 320x180			
Frame rate	Up to 12.5/15 fps (50/60 Hz) in all resolutions	Built-in	Remote zoom and focus, pixel counter, barrel distortion	
Video streaming	Multiple, individually configurable streams in H.264, H.265 and Motion JPG	installation aids	correction	
	Axis Zipstream technology in H.264 and H.265	Analytics		
	Controllable frame rate and bandwidth VBR/ABR/MBR H.264/H.265	Multisensor analytics	4 channels analytics support ^b	
	Low latency mode	AXIS Object	Object classes: humans, vehicles (types: cars, buses, trucks,	
	Video streaming indicator	Analytics	bikes)	
Signal-to-noise ratio	>55 dB		Features: line crossing, object in area, crossline counting BETA, occupancy in areaBETA Up to 8 scenarios Metadata visualized with trajectories and color-coded bounding boxes and tables Polygon include/exclude areas Perspective configuration	
WDR	Forensic WDR: Up to 120 dB depending on scene			
Noise reduction	Spatial filter (2D noise reduction) Temporal filter (3D noise reduction)			
Image settings	Saturation, contrast, brightness, sharpness, white balance, day/night threshold, local contrast, tone mapping, exposure		ONVIF Motion Alarm event	
	mode, exposure zones, barrel distortion correction, compression, rotation: 0°, 90°, 180°, 270° including corridor format, mirroring, text and image overlay, dynamic text and image overlay, privacy masks, polygon privacy mask	Metadata	Object data: Classes: humans, faces, vehicles (types: cars, buses trucks, bikes), license plates Confidence, position Attributes: Vehicle color, upper/lower clothing color, confidence	
Image processing	Forensic WDR, Lightfinder, OptimizedIR		position	
Audio		Applications	Event data: Producer reference, scenarios, trigger conditions	
Audio input/output	Audio features through portcast technology: two-way audio connectivity with AXIS T61 Mk II	Applications	Included AXIS Object Analytics, AXIS Video Motion Detection, active tampering alarm Supported Support for AXIS Camera Application Platform enabling installation of third-party applications, see axis.com/acap	
Audio streaming	Two-way (half duplex, full duplex) via network speaker pairing technology			
Network Network	IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPS ^a , HTTP/2, TLS ^a ,	Approvals	standton or time party applications, see axis.com/acap	
protocols	QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour),		Product markings CSA, UL/cUL, UKCA, CE, KC, EAC, VCCI, RCM	
	UPnP®, SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, NTS, RTSP, RTP, SRTP/RTSPS, TCP, UDP, IGMPv1/v2/v3, RTCP, ICMP,	Supply chain	TAA compliant	
	DHCPv4/v6, ARP, SSH, LLDP, CDP, MQTT v3.1.1, Secure syslog	EMC	CISPR 35, CISPR 32 Class A, EN 55035, EN 55032 Class A,	
	(RFC 3164/5424, UDP/TCP/TLS), Link-Local address (ZeroConf), IEEE 802.1X (EAP-TLS), IEEE 802.1AR		EN 50121-4, EN 61000-3-2, EN 61000-3-3, EN 61000-6-1, EN 61000-6-2	
System integra			Australia/New Zealand: RCM AS/NZS CISPR 32 Class A	
Application	Open API for software integration, including VAPIX®, metadata		Canada: ICES-3(A)/NMB-3(A) Japan: VCCI Class A	
Programming	and AXIS Camera Application Platform (ACAP); specifications at		Korea: KS C 9835, KS C 9832 Class A	
Interface	axis.com/developer-community. ACAP includes Native SDK and Computer Vision SDK.		USA: FCC Part 15 Subpart B Class A	
	One-click cloud connection		Railway: IEC 62236-4	

Safety	CAN/CSA C22.2 No. 62368-1 ed. 3, IEC/EN/UL 62368-1 ed. 3, IEC/EN 62471 risk group exempt, IS 13252, RCM AS/NZS 62368.1:2022,	Operating conditions	-30°C to 50°C (-22°F to 122°F) Humidity 10–100% RH (condensing) Maxiumum temperature according to NEMA TS 2 (2.2.7): 74°C(165°F)
Environment	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 60529 IP66/IP67, IEC/EN 62262 IK09, ISO 21207 (Method B), MIL-STD-810H (Method 501.7, 502.7, 505.7 506.6, 507.6 509.7, 512.6);	Storage conditions Dimensions	-40 °C to 65 °C (-40 °F to 149 °F) Humidity 5–95% RH (non-condensing) For the overall product dimensions, see the dimension drawing
Network	NEMA 250 Type 4X, NEMA TS 2 (2.2.7-2.2.9), VDMA 24364 NIST SP500-267. IPv6 USGv6		in this datasheet. Effective Projected Area (EPA): 0.022 m ² (0.24 ft ²)
Cybersecurity	1131 31 300-207, 11 00 03000	Weight	2 kg (4.4 lb)
Edge security	Software: Signed firmware, brute force delay protection, digest authentication, password protection Hardware: Axis Edge Vault cybersecurity platform TPM 2.0 (CC EAL4+, FIPS 140-2 Level 2), 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)	Box content	Camera, installation guide, connector guard, cable gaskets
· ,		Optional accessories	AXIS TP3105-E Pendant Kit Black, AXIS TP3204-E Recessed Mount, AXIS TP3832-E Dome Smoked, AXIS TP3833-E Dome Casing Black, AXIS T94N01D Pendant Kit, AXIS TP3004-E Wall Mount Black, AXIS T8415 Wireless Installation Tool AXIS Surveillance Cards For more accessories, go to axis.com/products/axis-p3738-
Network security	IEEE 802.1X (EAP-TLS) ^a , IEEE 802.1AR, HTTPS/HSTS ^a , TLS v1.2/v1.3 ^a , Network Time Security (NTS), X.509 Certificate PKI,	System tools	ple#accessories AXIS Site Designer, AXIS Device Manager, product selector,
Documentation	IP address filtering AXIS OS Hardening Guide	Dystem tools	accessory selector, lens calculator Available at axis.com
	Axis Vulnerability Management Policy Axis Security Development Model AXIS OS Software Bill of Material (SBOM) To download documents, go to axis.com/support/cybersecu- rity/resources	Languages	English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Polish, Traditional Chinese, Dutch, Czech, Swedish, Finnish, Turkish, Thai, Vietnamese
	To read more about Axis cybersecurity support, go to	Warranty	5-year warranty, see axis.com/warranty
~ ,	axis.com/cybersecurity	Part numbers	Available at axis.com/products/axis-p3738-ple#part-numbers
General Casing	IP66-, IP67-, NEMA 4X- and IK09-rated	Sustainability	
Casing	Polycarbonate hard-coated dome Aluminum and plastic casing, polycarbonate (PC) dome Color: white NCS S 1002-B For repainting instructions, go to the product's support page. For information about the impact on warranty, go to axis.com/warranty-implication-when-repainting.	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
Mounting	Mounting bracket with junction box holes (double-gang, single-gang, 4" square, and 4" octagon) 1/2" (M20) conduit side entry	Materials Environmental responsibility	Renewable carbon-based plastic content: 17% (recycled: 9%, bio-based: 1%, carbon capture based: 7%) Screened for conflict minerals in accordance with OECD guidelines To read more about sustainability at Axis, go to axis.com/about-axis/sustainability axis.com/environmental-responsibility Axis Communications is a signatory of the UN Global Compact, read more at unglobalcompact.org
Power	Power over Ethernet (PoE) IEEE 802.3at Type 2 Class 4 IR illumination on: typical 14.98 W, max 25.50 W IR illumination off: typical 8.92 W, max 14.70 W		
Connectors	Network: Shielded RJ45 10BASE-T/100BASE-TX/1000BASE-T PoE		
IR illumination	OptimizedIR with power-efficient, long-life 850 nm IR LEDs Range of reach 15m (49.2 ft) or more depending on the scene	. ,	
Storage	Support for microSD/microSDHC/microSDXC card	 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). b. For more information, go to the User manual on axis.com. 	

Dimension drawing



www.cxis.com T10191132/EN/M2.2/2310

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 informa-

tion 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.

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

