

AXIS Q3819-PVE Panoramic Camera

Panoramic camera for seamless, 180° coverage

AXIS Q3819-PVE delivers a 180° panoramic overview of extensive areas. With 14 MP resolution and seamless stitching of all four images, it offers 180° horizontal and 38° vertical coverage. It's possible to mount two cameras back-to-back for a complete 360° overview using AXIS T94V01C Dual Camera Mount. It features AXIS Object Analytics for nuanced and remarkably granular object classification. Furthermore, it includes built-in motors allowing for remote pan/tilt/roll functionality and it offers smart pairing with Axis network speakers using edge-to-edge technology. Furthermore, Axis Edge Vault protects your Axis device ID and simplifies authorization of Axis devices on your network.

- > 14 MP multisensor with seamless stitching
- > 180° horizontal, 38° vertical coverage
- > AXIS Object Analytics
- > AXIS Edge Vault, TPM module and Lightfinder
- > Built-in motors for remote pan/tilt/roll





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Camera			Edge storage: recording ongoing, storage disruption, storage	
Image sensor	4 x 5 MP 1/2.5" progressive scan RGB CMOS		health issues detected	
Lens	Fixed 5.9 mm, F1.88 Horizontal field of view: 180° Vertical field of view: 38°		I/O: digital input, manual trigger, virtual input MQTT subscribe Scheduled and recurring: scheduled event Video: live stream open, average bitrate degradation, day-night	
Day and night	Automatically removable infrared-cut filter		mode, tampering	
Minimum illumination	on Color: 0.16 lux, F2.0 pre- and post-alarm v B/W: 0.06 lux, F2.0 clipm I/O events, stati		Day/night mode, overlay text, video recording to edge storage, pre- and post-alarm video buffering, send SNMP trap, play audio clipm I/O events, status LED events	
Shutter speed Camera angle	1/40000 to 1/25 s Pan ± 135°		File upload: FTP, SFTP, HTTP, HTTPS network share, email MQTT publish Notification: email, HTTP, HTTPS TCP	
adjustment	Tilt 15's to 92° Roll ± 8°	Built-in installation aids	Remote Pan/tilt/roll: designed to withstand at least 200 full cycles, autoroll, pixel counter, leveling guide	
System on chip	o (SoC)	Analytics	eyeres, autoron, pixer counter, revening garde	
Model	ARTPEC-7 (x2)	Applications	Included	
Memory	2048 MB RAM, 512 MB Flash		AXIS Object Analytics	
Compute capabilities	Machine learning processing unit (MLPU)	AXIS Video Motion Detection, Scene metadata, AXIS Motion Guard, AXIS Fence Guard, AXIS Loitering Guard, active tampering alarm, audio detection		
Video Video	H.264 (MPEG-4 Part 10/AVC) Baseline, Main and High Profiles		Supported Support for AXIS Camera Application Platform enabling	
compression	H.265 (MPEG-4 Part 2/HEVC) Main Profile Motion JPEG	AXIS Object	installation of third-party applications, see axis.com/acap Object classes: humans, vehicles	
Resolution	8192x1728 (14.2 MP) to 608x128	Analytics	Scenarios: line crossing, object in area	
Frame rate	14.2 MP @ 25/30 fps (50/60 Hz) WDR		Up to 10 scenarios Other features: triggered objects visualized with trajectories,	
Video streaming	One configurable stream in H.264, H.265 and Motion JPEG in		color-coded bounding boxes and tables	
	full frame rate Multiple individually configurable streams in reduced frame rate Controllable frame rate and bandwidth		Polygon include/exclude areas Perspective configuration ONVIF Motion Alarm event	
Image settings	VBR/ABR/MBR H.264/H.265 Low latency mode Saturation, contrast, brightness, sharpness, Forensic WDR: up to	Scene metadata	Object classes: humans, faces, vehicles (types: cars, buses, trucks, bikes), license plates Object attributes: confidence, position	
illage settings	120 dB depending on scene, white balance, day/night threshold,	Approvals	oster artification communication	
	exposure mode, compression, dynamic text and image overlay, orientation aid, exposure control, noise reduction, fine tuning of behavior at low light, polygon privacy masks	EMC	EAC, EN 55032 Class A, EN 55035, EN 50121-4, EN 55024, EN 61000-6-1, EN 61000-6-2, CISPR 24, CISPR 35	
Audio			Australia/New Zealand: RCM AS/NZS CISPR 32 Class A Canada: ICES-3(A)/NMB-3(A)	
Audio streaming	Two-way audio via edge-to-edge technology		Japan: VCCI Class A	
Audio input/output	External microphone input, ring-power, digital audio input, automatic gain control, network speaker pairing		Korea: KC KN32 Class A, KC KN35 USA: FCC Part 15 Subpart B Class A Railway: IEC 62236-4	
Audio encoding	24bit LPCM, AAC-LC 8/16/32/48 kHz, G.711 PCM 8 kHz, G.726 ADPCM 8 kHz, Opus 8/16/48 kHz, 44.1 kHz ACC-LC, LPCM Configurable bit rate	Safety	IEC/EN/UL 60950-22, IEC/EN/UL 62368-1, CAN/CSA C22.2 No. 62368-1, CAN/CSA-C22.2 No. 60950-22, IS 13252	
Network		Environment	IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6,	
Security	IP address filtering, HTTPS ^a encryption, IEEE 802.1X (EAP-TLS) ^a network access control, user access log, centralized certificate management, signed video, secure keystore (CC EAL4 certified), TPM (FIPS 140-2 certified)		IEC 60068-2-14, IEC 60068-2-27, IEC 60068-2-78, IEC/EN 60529 IP66/IP67, IEC/EN 62262 IK10, NEMA 250 Type 4X NEMA TS 2 (2.2.7-2.2.9), MIL-STD-810H (Method 501.7, 502.7, 505.7, 506.6, 507.6, 509.7, 512.6)	
Network protocols	IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTP/2, HTTPS ^a , TLS ^a , QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour),	Network	NIST SP500-267	
protocois	UPnP®, SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, NTS, RTSP, RTP, TCP, UDP, IGMP, RTCP, ICMP, DHCPv4/v6, ARP, SSH,	Cybersecurity	ETSI EN 303 645	
		Cybersecurity		
	LLDP, CDP, MQTT, Secure syslog (RFC 3164/5424, UDP/TCP/TLS), Link-Local address (ZeroConf)	Edge security	Software: Signed firmware, brute force delay protection, digest	
System integra	· · ·		authentication and OAuth 2.0 RFC6749 OpenID Authorization Code Flow for centralized ADFS account management, password	
Application Open API for software integration Programming ONVIF® Profile G, ONVIF® Profile M, ONVIF® Profile S and ONVIF® Profile T, specification at onvif.org			protection, AES-XTS-Plain64 256bit SD card encryption Hardware: Axis Edge Vault cybersecurity platform TPM 2.0 (CC EAL4+, FIPS 140-2 Level 2), secure element (CC EA 6+), Axis device ID, secure boot	
Event conditions	Analytics, external input, supervised external input, edge storage events, virtual inputs through API Audio: audio detection Digital audio: digital signal contains Axis metadata, digital signal as invalid sample rate, digital signal missing, digital signal ok Device status: above operating temperature, above or below operating temperature, below operating temperature, fan failure, IP address removed, network lost, new IP address, shock detected, storage failure, system ready, within operating temperature, casing open, ring power overcurrent protection		IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2) ^a , IEEE 802.1AE (MACsec PSK/EAP-TLS), IEEE 802.1AR, HTTPS/HSTS ^a , TLS v1.2/v1.3 ^a , Network Time Security (NTS), X.509 Certificate PKI, host-based firewall	
		Documentation	AXIS OS Hardening Guide Axis Vulnerability Management Policy Axis Security Development Model AXIS OS Software Bill of Material (SBOM)	

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	To download documents, go to axis.com/support/cybersecu- rity/resources To read more about Axis cybersecurity support, go to axis.com/cybersecurity
General	
Casing	IP66-/IP67- and NEMA 4X-rated, IK10-rated impact-resistant casing with polycarbonate hard coated clear dome, aluminum base and dehumidifying membrane Color: white NCS S 1002-B Casing open detection For repainting instructions and impact on warranty, contact your distributor partner.
Mounting	Mounting bracket with junction box holes (double-gang, single-gang, 4" square, and 4" octagon) and for wall or ceiling mount 3/4" (M25) conduit side entries
Sustainability	PVC free
Power	Power over Ethernet (PoE) IEEE 802.3at Type 2 Class 4 Typical 12 W, max 22.5 W
Connectors	Shielded RJ45 1000BASE-T Terminal block for two configurable supervised inputs/digital outputs (12 V DC output, max load 50 mA), 3.5 mm analog/digital mic/line in
Storage	Support for microSD/microSDHC/microSDXC card Support for SD card encryption (AES-XTS-Plain64 256bit) Support for recording to network-attached storage (NAS)
Operating conditions	-40 °C to 50 °C (-40 °F to 122 °F) Humidity 10–100% RH (condensing) Maximum temperature according to NEMA TS 2 (2.2.7): 74 °C (165 °F)

	Start-up temperature: -40 °C
Storage conditions	-40 °C to 65 °C (-40 °F to 149 °F) Humidity 5–95% RH (non-condensing)
Dimensions	Height: 170 mm (6.6 in) ø 195 mm (7.6 in) With weathershield: Height: 221 mm (8.7 in) ø 206 mm (8.1 in)
Weight	2.4 kg (4.5 lb)
Mounting height	Recommended: 4 m and up
Included accessories	Installation guide, Windows® decoder 1-user license, weathershield, RESITORX® T20 screw bit, connector guard
Optional accessories	AXIS T8415 Wireless Installation Tool AXIS Surveillance Cards AXIS T03102 Pendant Kit AXIS T03101-E Pendant Kit AXIS T03201-E Recessed Mount ^b For more accessories, see <i>axis.com</i>
Languages	English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Traditional Chinese, Dutch, Czech, Swedish, Finnish, Turkish, Thai, Vietnamese
Warranty	5-year warranty, see axis.com/warranty

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].

In camera's tampering alarm doesn't work when mounted in AXIS T03201-E Recessed Mount