

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	With Forensic WDR and Lightfinder: Color: 0.16 lux, F2.0 B/W: 0.06 lux, F2.0	Event actions	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° 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, piner counter, revening guide
Model	ARTPEC-7 (x2)	AXIS Object	Object classes: humans, vehicles
Memory	2048 MB RAM, 512 MB Flash	Analytics	Trigger conditions: line crossing, object in area Up to 10 scenarios Metadata visualized with trajectories and color-coded bounding boxes
Compute capabilities	Machine learning processing unit (MLPU)		
Video			Polygon include/exclude areas
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	Metadata	Perspective configuration ONVIF Motion Alarm event Object data: Classes: humans, faces, vehicles, license plates
Resolution	8192x1728 (14.2 MP) to 608x128		Confidence, position
Frame rate	14.2 MP @ 25/30 fps (50/60 Hz) WDR	A 1: (:	Event data: Producer reference, scenarios, trigger conditions
Video streaming	One configurable stream in H.264, H.265 and Motion JPEG in full frame rate Multiple individually configurable streams in reduced frame rate Controllable frame rate and bandwidth VBR/ABR/MBR H.264/H.265 Low latency mode	Applications	Included AXIS Object Analytics AXIS Video Motion Detection, AXIS Motion Guard, AXIS Fence Guard, AXIS Loitering Guard, active tampering alarm, audio detection Supported Support for AXIS Camera Application Platform enabling
Image settings	Saturation, contrast, brightness, sharpness, Forensic WDR: up to 120 dB depending on scene, white balance, day/night threshold, exposure mode, compression, dynamic text and image overlay,	Cybersecurity Edge security	installation of third-party applications, see axis.com/acap Software: Signed firmware, brute force delay protection, digest
Audio	orientation aid, exposure control, noise reduction, fine tuning of behavior at low light, polygon privacy masks		authentication, password protection, AES-XTS-Plain64 256bit SD card encryption
Audio streaming	Two-way audio via edge-to-edge technology	Notwork convity	Hardware: Secure boot, Axis Edge Vault with Axis device ID IEEE 802.1X (EAP-TLS) ^a , IEEE 802.1AR, HTTPS/HSTS ^a , TLS
Audio input/output	External microphone input, ring-power, digital audio input, automatic gain control, network speaker pairing	Network security	11.2/V1.3 ^a , Network Time Security (NTS), X.509 Certificate PKI, IP address filtering
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	Documentation	AXIS OS Hardening Guide Axis Vulnerability Management Policy Axis Security Development Model
Network			AXIS OS Software Bill of Material (SBOM)
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), TTM (CC EAL4 certified),		To download documents, go to axis.com/support/cybersecu- rity/resources To read more about Axis cybersecurity support, go to axis.com/cybersecurity
Natara	TPM (FIPS 140-2 certified)	General	
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), UPnP®, SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, NTS, RTSP, RTP, TCP, UDP, IGMP, RTCP, ICMP, DHCPv4/v6, ARP, SSH, LLDP, CDP, MQTT, Secure syslog (RFC 3164/5424, UDP/TCP/TLS), Link-Local address (ZeroConf)	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
System integra	rtion		distributor partner.
Application Programming Interface	Open API for software integration ONVIF® Profile G, ONVIF® Profile M, ONVIF® Profile S and ONVIF® Profile T, specification at <i>onvif.org</i>	Mounting	Mounting bracket with junction box holes (double-gang, single-gang, 4" square, and 4" octagon) and for wall or ceiling mount
Event conditions	Analytics, external input, supervised external input, edge storage events, virtual inputs through API	Contain - Lillit	3/4" (M25) conduit side entries
	Audio: audio detection Digital audio: digital signal contains Axis metadata, digital signal	Sustainability Power	PVC free Power over Ethernet (PoE) IEEE 802.3at Type 2 Class 4 Typical 12 W grow 20 F W
	as invalid sample rate, digital signal missing, digital signal ok	Connectors	Typical 12 W, max 22.5 W
	Device status: above operating temperature, above or below operating temperature, fan failure, IP address removed, network lost, new IP address, shock detected, storage failure, system ready, within operating temperature,	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
	casing open, ring power overcurrent protection	Storage	Support for microSD/microSDHC/microSDXC card

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	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)
Approvals	EMC EAC, EN 55032 Class A, EN 55035, EN 50121-4, IEC 62236-4, EN 55024, EN 61000-6-1, EN 61000-6-2, FCC Part 15 Subpart B Class A, ICES-3(A)/NMB-3(A), VCCI Class A, RCM AS/NZS CISPR 32 Class A, KC KN32 Class A, KC KN35, CISPR 24, CISPR 35 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 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 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

	NIST SP500-267	
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	
Warranty	5-year warranty, see axis.com/warranty	

<sup>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. The camera's tampering alarm doesn't work when mounted in AXIS T03201-E Recessed Mount</sup>

