

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 classication. 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 simplices 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 I/O: digital input, manual trigger, virtual input MQTT subscribe Scheduled and recurring: scheduled event Video: live stream open, average bitrate degradation, day-night	
Lens	Fixed 5.9 mm, F1.88 Horizontal eld of view: 180° Vertical eld of view: 38°			
Day and night	Automatically removable infrared-cut Iter		mode, tampering	
Minimum illumination	With Forensic WDR and Light nder: Color: 0.16 lux, F2.0 B/W: 0.06 lux, F2.0	ļ	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 MOTT publish Noti cation: 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 quide	
System on chip	o (SoC)	Analytics		
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	
Compute capabilities	Machine learning processing unit (MLPU)		Metadata visualized with trajectories and color-coded bounding boxes	
Video	HOVA (MDEO A D. LAO(MA) D. II. MA I. LIII. L. D. L.		Polygon include/exclude areas Perspective con guration	
Video compression	H.264 (MPEG-4 Part 10/AVC) Baseline, Main and High Pro les H.265 (MPEG-H Part 2/HEVC) Main Pro le Motion JPEG	 Metadata	ONVIF Motion Alarm event Object data: Classes: humans, faces, vehicles, license plates	
Resolution	8192x1728 (14.2 MP) to 608x128		Con dence, position	
Frame rate	14.2 MP @ 25/30 fps (50/60 Hz) WDR	Applications	Event data: Producer reference, scenarios, trigger conditions	
Video streaming	One con gurable stream in H.264, H.265 and Motion JPEG in full frame rate Multiple individually con gurable 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, orientation aid, exposure control, noise reduction, ne tuning of behavior at low light, polygon privacy masks	Cybersecurity	installation of third-party applications, see axis.com/acap	
		Edge security	Software: Signed rmware, brute force delay protection, digest authentication, password protection, AES-XTS-Plain64 256bit SD card encryption	
Audio streaming	Two way audio via edge to edge technology		Hardware: Secure boot, Axis Edge Vault with Axis device ID	
Audio streaming Audio	Two-way audio via edge-to-edge technology External microphone input, ring-power, digital audio input,	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 Certi cate PKI,	
input/output	automatic gain control, network speaker pairing		IP address Itering	
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 Con gurable bit rate	Documentation	AXIS OS Hardening Guide Axis Vulnerability Management Policy Axis Security Development Model	
Network			AXIS OS Software Bill of Material (SBOM) To download documents, go to axis.com/support/cybersecu-	
Security	IP address Itering, HTTPS ^a encryption, IEEE 802.1X (EAP-TLS) ^a network access control, user access log, centralized certi cate management, signed video, secure keystore (CC EAL4 certi ed), TPM (FIPS 140-2 certi ed)		rity/resources To read more about Axis cybersecurity support, go to axis.com/cybersecurity	
Network	IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTP/2, HTTPSa, TLSa,	General		
protocols	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			distributor partner.	
Application Programming Interface	Open API for software integration ONVIF® Pro le G, ONVIF® Pro le M, ONVIF® Pro le S and ONVIF® Pro le T, speci cation 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 Audio: audio detection Digital audio: digital signal contains Axis metadata, digital signal	Sustainability	34" (M25) conduit side entries PVC free	
		Power	Power over Ethernet (PoE) IEEE 802.3at Type 2 Class 4	
	as invalid sample rate, digital signal missing, digital signal ok	0	Typical 12 W, max 22.5 W	
	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	Connectors	Shielded RJ45 1000BASE-T Terminal block for two con gurable 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	

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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 60068-2-27, 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

	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 axis.com
Languages	English, German, French, Spanish, Italian, Russian, Simpli ed Chinese, Japanese, Korean, Portuguese, Traditional Chinese
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).
b. The camera's tampering alarm doesn't work when mounted in AXIS 103201-E Recessed Mount

