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**

AXIS Q3819-PVE Panoramic Camera

Camera

Image sensor	4 x 5 MP 1/2.5" progressive scan RGB CMOS
Lens	Fixed 5.9 mm, F1.88 Horizontal field of view: 180° Vertical field of view: 38°
Day and night	Automatically removable infrared-cut filter
Minimum illumination	With Forensic WDR and Lightfinder: **Color:** 0.16 lux, F2.0 **B/W:** 0.06 lux, F2.0
Shutter speed	1/40000 to 1/25 s
Camera angle adjustment	Pan ± 135° Tilt 15° to 92° Roll ± 8°

System on chip (SoC)

Model	ARTPEC-7 (x2)
Memory	2048 MB RAM, 512 MB Flash
Compute capabilities	Machine learning processing unit (MLPU)

Video

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
Resolution	8192x1728 (14.2 MP) to 608x128
Frame rate	14.2 MP @ 25/30 fps (50/60 Hz) WDR
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
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, fine tuning of behavior at low light, polygon privacy masks

Audio

Audio streaming	Two-way audio via edge-to-edge technology
Audio input/output	External microphone input, ring-power, digital audio input, automatic gain control, network speaker pairing
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

Network

Security	Password protection, IP address filtering, HTTPS encryption, IEEE 802.1X (EAP-TLS) network access control, digest authentication, user access log, centralized certificate management, brute force delay protection, signed firmware, protection of cryptographic keys with FIPS 140-2 certified TPM 2.0 module, Axis Edge Vault with Axis device ID
Supported protocols	IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTP/2, HTTPS, SSL/TLS, QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP®, SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, RTCP, ICMP, DHCPv4/v6, ARP, SOCKS, SSH, LLDP, CDP, MQTT, Syslog, Link-Local address (ZeroConf)

System integration

Application Programming Interface	Open API for software integration ONVIF® Profile G, ONVIF® Profile M, ONVIF® Profile S and ONVIF® Profile T, specification at *onvif.org*
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 Edge storage: recording ongoing, storage disruption, storage 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 mode, tampering
Event actions	Day/night mode, overlay text, video recording to edge storage, pre- and post-alarm video buffering, send SNMP trap, play audio clip, I/O events, status LED events File upload: FTP, SFTP, HTTP, HTTPS network share, email MQTT publish Notification: email, HTTP, HTTPS TCP
Data streaming	Event data
Built-in installation aids	Remote Pan/tilt/roll: designed to withstand at least 200 full cycles, autoroll, pixel counter, leveling guide

Analytics

AXIS Object Analytics	**Object classes:** humans, vehicles **Trigger conditions:** line crossing, object in area Up to 10 scenarios Metadata visualized with color-coded bounding boxes Polygon include/exclude areas Perspective configuration ONVIF Motion Alarm event
Applications	**Included** AXIS Object Analytics AXIS Video Motion Detection, active tampering alarm, audio detection **Supported** Support for AXIS Camera Application Platform enabling installation of third-party applications, see *axis.com/acap*

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 ¾" (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 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

	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 TQ3102 Pendant Kit AXIS TQ3101–E Pendant Kit AXIS TQ3201–E Recessed Mount For more accessories, see *axis.com*
Languages	English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Traditional Chinese
Warranty	5–year warranty, see *axis.com/warranty*

Environmental responsibility:

axis.com/environmental-responsibility

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