AXIS P3727-PLE Panoramic Camera

4x2 MP multidirectional camera with IR for 360° coverage

AXIS P3727-PLE offers four channels with 2MP per channel at 30 fps. This multidirectional camera allows for flexible positioning of four varifocal camera heads. Each head can be controlled individually to capture scenes in four directions in wide-angle or zoomed-in views. It includes 360° IR illumination with individually controllable LEDs and an automatic IR cut filter. Plus, remote zoom and focus capabilities ensure fast and accurate installation. AXIS Edge Vault protects your Axis device ID and simplifies authorization of Axis products on your network. Furthermore, AXIS Object Analytics offers highly nuanced object classification and reliable detection with fewer false positives.

> **4*2 MP at 30 fps per channel**

> **360° IR illumination with individually controlled LEDs**

> **AXIS Edge Vault and TPM module**

> **AXIS Object Analytics on one channel**

> **Edge storage with 2* microSD card slots**

AXIS P3727-PLE Panoramic Camera

Camera

Image sensor	4 x 1/2.8" progressive scan RGB CMOS
Lens	Varifocal, 3–6 mm, F1.8–2.6 **4x1080p capture mode:** Horizontal field of view: 96°–49° Vertical field of view: 53°–27° Diagonal field of view: 113°–55° Fixed iris, IR corrected, remote zoom and focus
Day and night	Automatically removable infrared-cut filter
Minimum illumination	With Forensic WDR and Lightfinder: **Color:** 0.17 lux at 50 IRE, F1.8 **B/W:** 0 lux at 50 IRE, F1.8
Shutter speed	1/32500 s to 2 s with 50 Hz 1/32500 s to 2 s with 60 Hz
Camera angle adjustment	Pan ±90°, tilt +25 to +95°, rotation –5 to +95°, twist ±20°

System on chip (SoC)

Model	ARTPEC-7
Memory	1024 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	4x 1920x1080 (4x 2 MP) to 4x 640x360
Frame rate	Up to 25/30 fps (50/60 Hz)
Video streaming	Multiple, individually configurable streams in H.264, H.265 and Motion JPEG Axis Zipstream technology in H.264 and H.265 Controllable frame rate and bandwidth VBR/ABR/MBR H.264/H.265 Low latency mode
Image settings	Saturation, contrast, brightness, sharpness, Forensic WDR, white balance, day/night threshold, tone mapping , exposure mode, exposure zones, compression, rotation: 0°, 90°, 180°, 270° including Corridor Format, mirroring, dynamic text and image overlay, polygon privacy masks

Audio

Audio input/output	Audio features through portcast technology: two-way audio connectivity, voice enhancer A 30 W midspan or higher is required between AXIS T61 Audio and I/O Interfaces and AXIS P3727-PLE.

Network

IP address	One IP address for all channels
Security	IP address filtering, HTTPS[a] encryption, IEEE 802.1x (EAP-TLS)[a] network access control, user access log, centralized certificate management, signed video, Axis Edge Vault, Axis device ID, secure keystore (CC EAL4 certified), TPM (FIPS 140-2 certified)
Network protocols	IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPS[a], HTTP/2, 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, SRTP/RTSPS, TCP, UDP, IGMPv1/v2/v3, RTCP, DHCPv4/v6, SSH, LLDP, CDP, MQTT v3.1.1, Secure syslog (RFC 3164/5424, UDP/TCP/TLS), Link-Local address (ZeroConf)

System integration

Application Programming Interface	Open API for software integration, including VAPIX® and AXIS Camera Application Platform; specifications at *axis.com* One-click cloud connection ONVIF® Profile G, ONVIF® Profile M, ONVIF® Profile S and ONVIF® Profile T, specification at *onvif.org*
Onscreen controls	IR illumination Autofocus Privacy mask
Event conditions	Audio: audio clip playing Device status: above operating temperature, above or below operating temperature, below operating temperature, casing open, IP address removed, network lost, new IP address,storage failure, system ready, within operating temperature Edge storage: recording ongoing, storage disruption, storage health issues detected I/O: manual trigger, virtual input MQTT subscribe Scheduled and recurring: scheduled event Video: average bitrate degradation, day-night mode, live stream open, tampering
Event actions	Record video: SD card and network share MQTT publish Upload of images or video clips: FTP, SFTP, HTTP, HTTPS, network share, and email Notification: email, HTTP, HTTPS, TCP, and SNMP trap Overlay text, play audio clip, day/night mode, status LED, IR illumination, MQTT
Built-in installation aids	Pixel counter, remote focus, remote zoom

Analytics

AXIS Object Analytics	**Object classes**: humans, vehicles **Scenarios**: line crossing, object in area Up to 10 scenarios Metadata visualized with trajectories, color-coded bounding boxes and tables Polygon include/exclude areas Perspective configuration ONVIF Motion Alarm event Available for one channel
Metadata	**Object data**: Classes: humans, faces, vehicles (types: cars, buses, trucks, bikes), license plates Confidence, position **Event data**: Producer reference, scenarios, trigger conditions
Applications	Included AXIS Object Analytics, AXIS Video Motion Detection, AXIS Motion Guard, AXIS Fence Guard, AXIS Loitering Guard, active tampering alarm Support for AXIS Camera Application Platform enabling installation of third-party applications, see *axis.com/acap*

Approvals

EMC	EN 55035, EN 55032 Class A, EN 50121-4, EN 61000-6-1, EN 61000-6-2 **Australia/New Zealand:** RCM AS/NZS CISPR 32 Class A **Canada:** ICES-3(A)/NMB-3(A) **Japan:** VCCI Class A **Korea:** KC KN35, KC KN32 Class A **USA:** FCC Part 15 Subpart B Class A **Railway:** IEC 62236-4
Safety	CAN/CSA C22.2 No. 60950-22, CAN/CSA C22.2 No. 62368-1, IEC/EN/UL 62368-1 ed. 3, IEC/EN/UL 60950-22, IEC 62471, 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 IK09, NEMA 250 Type 4X, NEMA TS 2 (2.2.7-2.2.9)
Network	NIST SP500-267
Cybersecurity	ETSI EN 303 645

Cybersecurity

Edge security	**Software:** Signed firmware, brute force delay protection, digest authentication and OAuth 2.0 RFC6749 OpenID Authorization Code Flow for centralized ADFS account management, password 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 EAL 6+), Axis device ID, secure keystore, signed video, secure boot
Network security	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)

To download documents, go to *axis.com/support/cybersecurity/resources*
To read more about Axis cybersecurity support, go to *axis.com/cybersecurity*

General

Casing	IP66-, IP67-, NEMA 4X- and IK09-rated impact-resistant, aluminum and plastic casing with polycarbonate hard-coated dome Color: white NCS S 1002-B Dome intrusion switch For repainting instructions of skin cover or casing and impact on warranty, contact your Axis partner.
Mounting	Mounting bracket with junction box holes (double-gang, single-gang, 4" square, and 4" octagon) ½" (M20) conduit side entry
Sustainability	PVC free
Power	Power over Ethernet (PoE) IEEE 802.3at Type 2 Class 4 IR illumination on[b]: Class 4, typical 12.5 W, max 21.7 W IR illumination off[b]: Class 3, typical 6.4 W, Class 4, max 15.0 W
Connectors	Shielded RJ45 10BASE-T/100BASE-TX/1000BASE-T PoE Audio: Audio and I/O connectivity via portcast technology
IR illumination	Four individually controllable IR with power-efficient, long-life 850 nm IR LEDs Range of reach 15 m (50 ft) or more depending on the scene
Storage	Support for microSD/microSDHC/microSDXC card Dual SD cards Support for SD card encryption (AES-XTS-Plain64 256bit) Recording to network-attached storage (NAS) For SD card and NAS recommendations see *axis.com*
Operating conditions	–30 °C to 50°C (–22 °F to 122 °F) Humidity 10–100% RH (condensing)

	Maximum temperature according to NEMA TS 2 (2.2.7): 74 °C (165 °F)
Storage conditions	–40 °C to 65 °C (–40 °F to 149 °F)
Dimensions	Height: 92 mm (3.6 in) ø 255 mm (10.0 in)
Weight	2.0 kg (4.4 lb)
Included accessories	Installation guide, Windows® decoder 1-user license, connector guard, screw bit T20
Optional accessories	AXIS T94N01D Pendant Kit, AXIS T94N01L Recessed Mount[c], AXIS TP3814-E Black Casing, AXIS TP3815-E Smoked Dome, Axis cabinets AXIS Surveillance Cards For more accessories, see *axis.com*
Video management software	AXIS Companion, AXIS Camera Station, video management software from Axis Application Development Partners available at *axis.com/vms*
Languages	English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Polish, 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).*
b. *Typical power consumption at ambient temperature 20°C (68°F) and maximum power consumption at –30°C (–22°F)*
c. *The camera's tampering alarm doesn't work when mounted in AXIS T94N01L Recessed Mount*

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