

## 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 adjustment

Pan  $\pm 90^\circ$ , tilt +25 to +95°, rotation –5 to +95°, twist  $\pm 20^\circ$

## 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<sup>1</sup> encryption, IEEE 802.1x (EAP-TLS)<sup>1</sup> 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<sup>1</sup>, HTTP/2, TLS<sup>1</sup>, 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)

1. 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).

## System integration

### Application Programming Interface

Open API for software integration, including VAPIX® and AXIS Camera Application Platform; specifications at [axis.com](https://axis.com)

One-click cloud connection

ONVIF® Profile G, ONVIF® Profile M, ONVIF® Profile S and ONVIF® Profile T, specification at [onvif.org](https://onvif.org)

### Video management systems

Compatible with AXIS Camera Station Edge, AXIS Camera Station Pro, AXIS Camera Station 5, and video management software from Axis' partners available at [axis.com/vms](https://axis.com/vms).

### 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

### Applications

#### Included

AXIS Object Analytics, AXIS Scene Metadata, 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](https://axis.com/acap)

### AXIS Object Analytics

Object classes: humans, vehicles

Scenarios: line crossing, object in area

Up to 10 scenarios

Other features: triggered objects visualized with trajectories, color-coded bounding boxes and tables

Polygon include/exclude areas

Perspective configuration

ONVIF Motion Alarm event

Available for one channel

### AXIS Scene Metadata

Object classes: Classes: humans, faces, vehicles (types: cars, buses, trucks, bikes), license plates

Confidence, position

## 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, BSI IT Security Label, FIPS 140

## Cybersecurity

### Edge security

**Software:** Signed OS, 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)<sup>2</sup>, IEEE 802.1AE (MACsec PSK/EAP-TLS), IEEE 802.1AR, HTTPS/HSTS<sup>2</sup>, TLS v1.2/v1.3<sup>2</sup>, 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](https://axis.com/support/cybersecurity/resources)

To read more about Axis cybersecurity support, go to [axis.com/cybersecurity](https://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) 1/2" (M20) conduit side entry

### Sustainability

PVC free

### Power

Power over Ethernet (PoE) IEEE 802.3at Type 2 Class 4  
IR illumination on<sup>3</sup>: Class 4, typical 12.5 W, max 21.7 W  
IR illumination off<sup>3</sup>: 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](https://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<sup>4</sup>, AXIS TP3814-E Black Casing, AXIS TP3815-E Smoked Dome, Axis cabinets

AXIS Surveillance Cards

For more accessories, see [axis.com](https://axis.com)

2. This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. ([openssl.org](https://openssl.org)), and cryptographic software written by Eric Young ([eyay@cryptsoft.com](mailto:eyay@cryptsoft.com)).

3. Typical power consumption at ambient temperature 20 °C (68 °F) and maximum power consumption at -30 °C (-22 °F)

4. The camera's tampering alarm doesn't work when mounted in AXIS T94N01L Recessed Mount

## Languages

English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Polish, Traditional Chinese, Dutch, Czech, Swedish, Finnish, Turkish, Thai, Vietnamese

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## Warranty

5-year warranty, see [axis.com/warranty](https://axis.com/warranty)