

# **AXIS P3818-PVE Panoramic Camera**

Seamless, 180° coverage with no blind spots

AXIS P3818-PVE delivers a 180° panoramic overview of extensive areas with ultra-high resolution images and incredible details up to 30 fps. With 13 MP resolution and seamless stitching of all three images, it offers 180° horizontal and 90° vertical coverage with no blind spots. Including a variety of mounting options, it's also possible to mount two cameras back-to-back for a complete 360° overview, using AXIS T94V01C Dual Camera Mount. Featuring edge-to-edge technology, it's easy to add support for audio enabling you to listen in to transactions or incidents. Additionally, built-in cybersecurity features prevent unauthorized access and safeguard your system.

- > 13 MP multisensor camera with one IP address
- > 180° horizontal, 90° vertical coverage
- > Seamlessly stitched images
- > Support for audio input
- > Built-in cybersecurity features











## **AXIS P3818-PVE Panoramic Camera**

# Camera

# Image sensor

3 x 5 MP 1/2.8" progressive scan RGB CMOS

#### Lens

Fixed 3.2 mm, F2.0

Horizontal field of view: 180° Vertical field of view: 90°

#### Day and night

Automatically removable infrared-cut filter

#### Minimum illumination

With Forensic WDR and Lightfinder:

Color: 0.16 lux, F2.0 B/W: 0.05 lux, F2.0

## Shutter speed

1/91000 to 1/25 s

With WDR: 1/50000 to 1/25 s

# Camera adjustment

Pan +/- 180° Tilt 0° to 50° Roll +/- 5°

# System on chip (SoC)

#### Model

ARTPEC-7 (x2)

#### Memory

2048 MB RAM (x2), 512 MB Flash

#### 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

5120x2560 (13.1 MP) to 256x128

#### Frame rate

13.1 MP @ 25/30 fps (50/60 Hz) WDR

#### Video streaming

13.1 MP: 1 configurable stream in H.264, H.265 and Motion JPEG in full frame rate Controllable frame rate and bandwidth VBR/ABR/MBR H.264/H.265 Low latency mode

#### 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, line input, 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

#### **Network protocols**

IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTP/2, HTTPS¹, TLS¹, 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, IGMP, RTCP, ICMP, DHCPv4/v6, ARP, SSH, LLDP, CDP, MQTT, Secure syslog (RFC 3164/5424, UDP/TCP/TLS), Link-Local address (ZeroConf)

<sup>1.</sup> 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 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 clipm 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**

Pixel counter, leveling guide

# **Analytics**

### **Applications**

Included

AXIS Fence Guard, AXIS Motion Guard, AXIS Loitering Guard

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

# **Approvals**

#### **EMC**

EAC, CISPR 24, CISPR 35, EN 55024, 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. 62368-1 ed. 3, CAN/CSA C22.2 No. 60950-22, IEC/EN/UL 62368-1, IEC/EN/UL 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

#### 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 Client Credential Flow/OpenID Authorization Code Flow for centralized ADFS account management, password protection, Axis Cryptographic Module (FIPS 140–2 level 1), 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 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
To read more about Axis cybersecurity support, go to axis.com/cybersecurity

## General

#### Casing

IP66-/IP67- and NEMA 4X-rated, IK10-rated impactresistant 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 3/4" (M25) conduit side entries

# Sustainability

PVC free, 20% recycled plastic

#### Power

Power over Ethernet (PoE) IEEE 802.3at Type 2 Class 4 Typical 11 W, max 18 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 (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)

#### **Dimensions**

Height: 170 mm (6.6 in)

Width in diameter: 195 mm (7.6 in)

With weathershield: Height 221 mm (8.7 in) Width 206 mm (8.1 in)

#### Weight

2.2 kg (4.9 lb)

#### Mounting height

Recommended: 4-15 m

#### Included accessories

Installation guide, Windows® decoder 1-user license, weathershield, RESITORX® T20 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<sup>3</sup> AXIS T94V01C Dual Camera Mount For more accessories, see *axis.com* 

- 2. 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).
- The camera's tampering alarm doesn't work when mounted in AXIS TQ3201-E Recessed Mount

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# Languages

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

# Warranty

5-year warranty, see axis.com/warranty

