

# 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                            |   | I/O: digital input, manual trigger, virtual input   |
|-----------------------------------|---|---|
| Image sensor                      | 3 x 5 MP 1/2.8" progressive scan RGB CMOS   | MQTT subscribe  |
| Lens                              | Fixed 3.2 mm, F2.0<br>Horizontal field of view: 180°<br>Vertical field of view: 90°   | Scheduled and recurring: scheduled event<br>Video: live stream open, average bitrate degradation, day-night mode, tampering |
| Day and night                     | Automatically removable infrared-cut filter   |   |
| Minimum illumination              | With Forensic WDR and Lightfinder:<br>Color: 0.16 lux, F2.0<br>B/W: 0.05 lux, F2.0  |   |
| Shutter speed                     | 1/91000 to 1/25 s<br>With WDR: 1/50000 to 1/25 s  |   |
| Camera angle adjustment           | Pan +/- 180°<br>Tilt 0° to 50°<br>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<br>H.265 (MPEG-H Part 2/HEVC) Main Profile<br>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<br>Controllable frame rate and bandwidth<br>VBR/ABR/MBR H.264/H.265<br>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<br>Configurable bit rate   |   |
| Network                           |   |   |
| Security                          | IP address filtering, HTTPS <sup>a</sup> encryption, IEEE 802.1X (EAP-TLS) <sup>a</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, HTTP/2, HTTPS <sup>a</sup> , TLS <sup>a</sup> , QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP <sup>®</sup> , 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)  |   |
| System integration                |   |   |
| Application Programming Interface | Open API for software integration<br>ONVIF <sup>®</sup> Profile G, ONVIF <sup>®</sup> Profile M, ONVIF <sup>®</sup> Profile S and ONVIF <sup>®</sup> Profile T, specification at <a href="https://onvif.org">onvif.org</a>  |   |
| Event conditions                  | Analytics, external input, supervised external input, edge storage events, virtual inputs through API<br>Audio: audio detection<br>Digital audio: digital signal contains Axis metadata, digital signal as invalid sample rate, digital signal missing, digital signal ok<br>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<br>Edge storage: recording ongoing, storage disruption, storage health issues detected |   |
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| <b>Mounting</b>             | Mounting bracket with junction box holes (double-gang, single-gang, 4" square, and 4" octagon) and for wall or ceiling mount<br>¾" (M25) conduit side entries                |
| <b>Sustainability</b>       | PVC free, 20% recycled plastic   |
| <b>Power</b>                | Power over Ethernet (PoE) IEEE 802.3at Type 2 Class 4<br>Typical 11 W, max 18 W  |
| <b>Connectors</b>           | Shielded RJ45 1000BASE-T<br>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        |
| <b>Storage</b>              | Support for microSD/microSDHC/microSDXC card<br>Support for SD card encryption (AES-XTS-Plain64 256bit)<br>Support for recording to network-attached storage (NAS)           |
| <b>Operating conditions</b> | -40 °C to 50 °C (-40 °F to 122 °F)<br>Humidity 10–100% RH (condensing)<br>Maximum temperature according to NEMA TS 2 (2.2.7): 74 °C (165 °F)<br>Start-up temperature: -40 °C |
| <b>Storage conditions</b>   | -40 °C to 65 °C (-40 °F to 149 °F)<br>Humidity 5–95% RH (non-condensing)   |
| <b>Dimensions</b>           | Height: 170 mm (6.6 in)<br>Width in diameter: 195 mm (7.6 in)  |

|   |  |
|---|--|
| <b>With weathershield:</b><br>Height 221 mm (8.7 in)<br>Width 206 mm (8.1 in) |  |
| <b>Weight</b>   | 2.2 kg (4.9 lb)  |
| <b>Mounting height</b>  | Recommended: 4–15 m  |
| <b>Included accessories</b>   | Installation guide, Windows® decoder 1-user license, weathershield, RESITORX® T20 bit, connector guard   |
| <b>Optional accessories</b>   | AXIS T8415 Wireless Installation Tool<br>AXIS Surveillance Cards<br>AXIS TQ3102 Pendant Kit<br>AXIS TQ3101-E Pendant Kit<br>AXIS TQ3201-E Recessed Mount <sup>b</sup><br>AXIS T94V01C Dual Camera Mount<br>For more accessories, see <a href="https://axis.com">axis.com</a> |
| <b>Languages</b>  | English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Traditional Chinese, Dutch, Czech, Swedish, Finnish, Turkish, Thai, Vietnamese   |
| <b>Warranty</b>   | 5-year warranty, see <a href="https://axis.com/warranty">axis.com/warranty</a>   |

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