

AXIS P3248-LVE Network Camera

Streamlined 4K outdoor-ready dome for any light

AXIS P3248-LVE offers excellent image quality in brilliant 4K resolution. This IK10-rated outdoor-ready camera features Axis Lightfinder 2.0 and Axis Forensic WDR for true colors and great detail in challenging light or near darkness. It includes OptimizedIR for surveillance in complete darkness and motion-adaptive exposure significantly reduces motion blur from approaching or nearby objects. AXIS Object Analytics lets you detect and classify humans and vehicles. And, thanks to two-way audio and I/O connectivity, you can add audio analytics and integrate peripheral equipment. Furthermore, Axis Edge Vault protects your Axis device ID and simplifies authorization of Axis products on your network.

- > 4K resolution at 30 fps
- > Lightfinder 2.0 and Motion-adaptive exposure
- > Zipstream supporting H.264 and H.265
- > AXIS Object Analytics
- > Enhanced security features









AXIS P3248-LVE Network Camera

| Camera | | Event conditions | Analytics, external input, supervision of input, edge storage |
|---|---|---|--|
| Image sensor | 1/1.8" progressive scan RGB CMOS | Event conditions | events, virtual inputs through API |
| | · - | | MQTT subscribe |
| Lens | Varifocal, 4.3–8.6 mm, F1.5 Horizontal field of view: 100°–53° Vertical field of view: 54°–30° Remote zoom and focus, P-Iris control, IR corrected | Event actions | Record video: SD card and network share Upload of images or video clips: FTP, SFTP, HTTP, HTTPS, network share, and email |
| Day and night | Automatically removable infrared-cut filter | | Pre- and post-alarm video or image buffering for recording or upload |
| Minimum illumination | With Forensic WDR and Lightfinder 2.0: Color: 0.14 lux at 50 IRE, F1.5 B/W: 0 lux at 50 IRE, F1.5 | | Notification: email, HTTP, HTTPS, TCP, and SNMP trap MQTT publish Overlay text, external output activation, play audio clip, make call |
| Shutter speed | 1/8500 s to 1/5 s | Built-in | Pixel counter, remote focus, remote zoom |
| Camera angle adjustment | Pan ±180°, tilt ±75°, rotation ±175° | installation aids Analytics | OptimizedIR with adjustable IR illumination intensity |
| System on chip (SoC) | | AXIS Object | Object classes: humans, vehicles |
| Model | ARTPEC-7 | Analytics | Features: line crossing, object in area, crossline counting BETA, time in area BETA |
| Memory | 2048 MB RAM, 512 MB Flash | | Up to 10 scenarios |
| Compute | Machine learning processing unit (MLPU) | | Metadata visualized with trajectories, color-coded bounding |
| capabilities | macinic rearring processing arms (mer o) | | boxes and tables Polygon include/exclude areas |
| Video | | | Perspective configuration |
| Video | H.264 (MPEG-4 Part 10/AVC) Baseline, Main and High Profiles | | ONVIF Motion Alarm event |
| compression | H.265 (MPEG-H Part 2/HEVC) Main Profile Motion JPEG | Metadata | Object data: Classes: humans, faces, vehicles (types: cars, buses, trucks, bikes), license plates Confidence, position |
| Resolution | 3840x2160 to 160x90 | | Event data: Producer reference, scenarios, trigger conditions |
| Frame rate | 25/30 fps with power line frequency 50/60 Hz | Applications | Included |
| Video streaming | Multiple, individually configurable streams in H.264, H.265, and Motion JPEG Axis Zipstream technology for H.264 and H.265 Controllable frame rate and bandwidth VBR/ABR/MBR H.264/H.265 Low latency mode | | AXIS Object Analytics AXIS Motion Guard, AXIS Fence Guard, AXIS Loitering Guard AXIS Video Motion Detection, active tampering alarm Audio detection Supported AXIS Perimeter Defender |
| Multi-view streaming | Up to 2 individually cropped out view areas in full frame rate | | Support for AXIS Camera Application Platform enabling installation of third-party applications, see axis.com/acap |
| Image settings | Compression, color saturation, brightness, sharpness, contrast, local contrast, white balance, day/night threshold, tone mapping, exposure control (including automatic gain control), motion-adaptive exposure, exposure zones, defogging, Forensic WDR: up to 120 dB depending on scene, barrel distortion correction, fine tuning of low-light behavior, dynamic text and | Cybersecurity | |
| ý J | | Edge security | Software: Signed firmware, brute force delay protection, digest authentication, password protection, AES-XTS-Plain64 256bit SD card encryption Hardware: Secure boot, Axis Edge Vault with Axis device ID |
| | image overlay, privacy masks, mirroring, rotation: 0°, 90°, 180°, 270°, including Corridor Format | Network security | IEEE 802.1X (EAP-TLS), IEEE 802.1AR, HTTPS/HSTS, TLS v1.2/v1.3, Network Time Security (NTS), X.509 Certificate PKI, IP address filtering |
| Pan/Tilt/Zoom | Digital PTZ, preset positions | Documentation | AXIS OS Hardening Guide |
| Audio | | 2004 | Axis Vulnerability Management Policy |
| Audio streaming Audio encoding | Full duplex 24bit LPCM, AAC-LC 8/16/32/44.1/48 kHz, G.711 PCM 8 kHz, G.726 ADPCM 8 kHz, Opus 8/16/48 kHz Configurable bit rate | Axis Security Development Model AXIS OS Software Bill of Material (SBOM) To download documents, go to axis.com/s rity/resources | AXIS OS Software Bill of Material (SBOM) To download documents, go to axis.com/support/cybersecu- |
| Audio | External microphone input, line input, digital input with ring | | axis.com/cybersecurity |
| input/output | power, line output, automatic gain control Two-way audio connectivity via optional AXIS T61 Audio and I/O Interfaces with portcast technology | General Casing | IPGG- and NEMA 4X-rated, IK10 impact-resistant polycarbonate |
| Network | | | casing with hard-coated dome and dehumidifying membrane |
| Network | IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTP/2, HTTPS, TLS, QoS | | Encapsulated electronics and captive screws Color: white NCS S 1002-B |
| protocols | 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, | | For repainting instructions and impact on warranty, contact your Axis partner. |
| | ARP, SSH, SIP, LLDP, CDP, MQTT v3.1.1, Secure syslog (RFC 3164/5424, UDP/TCP/TLS), Link-Local address (ZeroConf) | Mounting | Mounting bracket with holes for junction box (double-gang, single-gang, and 4" octagon) and for wall or ceiling mount 1/4"-20 UNC tripod screw thread |
| System integration | | Sustainability | PVC free |
| 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 Support for Session Initiation Protocol (SIP) for integration with Voice over IP (VoIP) systems, peer to peer or integrated with SIP/PBX | Power | Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 1 Class 3 Typical 8.6 W, max 11.8 W |
| | | Connectors | RJ45 10BASE-T/100BASE-TX/1000BASE-T POE I/O: 4-pin 2.5 mm (0.098 in) terminal block for 1 supervised digital input and 1 digital output (12 V DC output, max. load 25 mA) Audio: 4-pin 2.5 mm (0.098 in) terminal block for audio in and out |

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| | Audio and I/O connectivity via AXIS T61 Audio and I/O Interfaces with portcast technology |
|----------------------|--|
| IR illumination | OptimizedIR with power-efficient, long-life 850 nm IR LEDs Range of reach 40 m (130 ft) or more depending on the scene |
| Storage | Support for microSD/microSDHC/microSDXC card 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 | -40 °C to 50 °C (-40 °F to 122 °F) Maximum temperature (intermittent): 55 °C (131 °F) Absolute maximum temperature: 74 °C (165 °F) according to NEMA TS2 2016, 2.2.7 Start-up temperature: -30 °C to 50 °C (-22 °F to 122 °F) Humidity 10–100% RH (condensing) |
| Storage conditions | -40 °C to 65 °C (-40 °F to 149 °F) Humidity 5–95% RH (non-condensing) |
| Approvals | EMC EN 55032 Class A, EN 55035, EN 50121-4, IEC 62236-4, EN 61000-3-2, EN 61000-3-3, 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 Safety IEC/EN/UL 62368-1, IEC/EN/UL 60950-22, IS 13252, IEC/EN 62471 Environment IEC 60068-2-1, IEC 60068-2-14, IEC 60068-2-2, IEC 60068-2-7, IEC 60068-2-6, IEC 60068-2-78 IEC/EN 60529 IP66, IEC/EN 62262 IK10, NEMA 250 Type 4X, NEMA TS2 (2.2.7-2.2.9) |

| | Network NIST SP500-267 |
|---------------------------------|---|
| Dimensions | Without weathershield: Height: 104 mm (4.09 in) ø 149 mm (5.87 in) |
| Weight | With weathershield: 800 g (1.8 lb) |
| Included accessories | Installation guide, Windows® decoder 1-user license, drill template, Resistorx® T20 L-key, terminal block connectors, cable gaskets, connector guard Weathershield |
| Optional accessories | AXIS T94M02L Recessed Mount, AXIS T94T01D Pendant Kit, AXIS T94M01D Pendant Kit, AXIS Dome Intrusion Switch C, AXIS T93804-E Metal Casing White, AXIS T6101 Audio and I/O Interface, AXIS T6112 Audio and I/O Interface, AXIS ACI Conduit Adapters, Axis mounts and microphones, smoked dome, black casing 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, Traditional Chinese, Dutch, Czech, Swedish, Finnish, Turkish, Thai, Vietnamese |
| Warranty | 5-year warranty, see axis.com/warranty |

