

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		System integra	rtion	
Image sensor	1/1.8" progressive scan RGB CMOS	Application	Open API for software integration, including VAPIX®	
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	Programming Interface	and AXIS Camera Application Platform; specifications at axis.com/developer-community. One-click cloud connection ONVIF® Profile G, ONVIF® Profile M, ONVIF® Profile S, and ONVIF® Profile T, specification at onvif.org	
Day and night	Automatically removable infrared-cut filter		Support for Session Initiation Protocol (SIP) for integration with	
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	Video	Voice over IP (VoIP) systems, peer to peer or integrated with SIP/PBX Compatible with AXIS Camera Station Edge, AXIS Camera Station	
Shutter speed	1/8500 s to 1/5 s	management	Pro, AXIS Camera Station 5, and video management software	
Camera adjustment	Pan ±180°, tilt ±75°, rotation ±175° Systems from Axis' partners available at axis.com/ Event conditions Analytics, external input, supervision of i		from Axis' partners available at axis.com/vms. Analytics, external input, supervision of input, edge storage	
System on chir	o (SoC)		events, virtual inputs through API MQTT subscribe	
Model	ARTPEC-7	Event actions	Record video: SD card and network share	
Memory	2048 MB RAM, 512 MB Flash		Upload of images or video clips: FTP, SFTP, HTTP, HTTPS, networ share, and email Pre- and post-alarm video or image buffering for recording or upload Notification: email, HTTP, HTTPS, TCP, and SNMP trap MQTT publish Overlay text, external output activation, play audio clip, make ca	
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			
Resolution	Motion JPEG 3840x2160 to 160x90	Built-in installation aids	Pixel counter, remote focus, remote zoom OptimizedIR with adjustable IR illumination intensity	
Frame rate	25/30 fps with power line frequency 50/60 Hz	Analytics		
Video streaming	Multiple, individually configurable streams in H.264, H.265, and	Applications	Included	
video streaming	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, Scene metadata AXIS Object Analytics, AXIS Scene Metadata AXIS Object Analytics, AXIS Scene Metadata AXIS Motion Guard, AXIS Fence Guard, AXIS Loitering Guard AXIS Video Motion Detection, active tampering alarm Audio detection Supported AXIS Perimeter Defender Support for AXIS Camera Application Platform enabling installation of third-party applications, see axis.com/acap	
Multi-view streaming	Up to 2 individually cropped out view areas in full frame rate			
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 image overlay, privacy masks, mirroring, rotation: 0°, 90°, 180°, 270°, including Corridor Format	AXIS Object Analytics	Object classes: humans, vehicles Scenarios: line crossing, object in area, crossline counting, time 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	
Pan/Tilt/Zoom Audio	Digital PTZ, preset positions		ONVIF Motion Alarm event	
Audio features	Automatic gain control Voice enhancer	AXIS Scene Metadata	Object classes: humans, faces, vehicles (types: cars, buses, trucks, bikes), license plates Confidence, position	
Audio streaming	3 , 1	Approvals	communical position	
Audio input/output	Two-way (half duplex, full duplex) Two-way audio connectivity through optional AXIS T61 Audio and I/O Interfaces with portcast technology	EMC	EN 55035, EN 55032 Class A, EN 50121-4, EN 61000-3-2, EN 61000-3-3, EN 61000-6-1, EN 61000-6-2	
Audio input	Input for external unbalanced microphone, optional 5 V microphone power Digital input, optional 12 V ring power Unbalanced line input		Australia/New Zealand: RCM AS/NZS CISPR 32 Class A Canada: ICES-3(A)/NMB-3(A) Japan: VCCI Class A Korea: KC KN32 Class A, KC KN35 USA: FCC Part 15 Subpart B Class A	
Audio output	Line output		Railway: IEC 62236-4	
Audio encoding	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	Safety	IEC/EN/UL 62368-1, IEC/EN/UL 60950-22, IS 13252, IEC/EN 62471	
Network Network	IEC 60068-2-27, IEC 60068-2 IEC/EN 60529 IP66, IEC/EN 62		IEC 60068-2-1, IEC 60068-2-14, IEC 60068-2-2, IEC 60068-2-27, IEC 60068-2-6, IEC 60068-2-78 IEC/EN 60529 IP66, IEC/EN 62262 IK10, NEMA 250 Type 4X,	
protocols	IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTP/2, HTTPS, TLS, 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, SIP, LLDP, CDP, MQTT v3.1.1, Secure syslog (RFC 3164/5424, UDP/TCP/TLS), Link-Local address (ZeroConf)		NEMA TS2 (2.2.7-2.2.9)	
		Network	NIST SP500-267	
		Cybersecurity	5.6 6 105 1 15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
		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: Secure boot, Axis Edge Vault with Axis device ID	

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Network security	IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2), IEEE 802.1AE (MACsec PSK/EAP-TLS), IEEE 802.1AR, HTTPS/HSTS, TLS v1.2/v1.3, 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- and NEMA 4X-rated, IK10 impact-resistant polycarbonate casing with hard-coated dome and dehumidifying membrane Encapsulated electronics and captive screws Color: white NCS S 1002-B For repainting instructions and impact on warranty, contact your Axis partner.
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
Sustainability	PVC free
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 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)
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, cabl 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 Condui Adapters, Axis mounts and microphones, smoked dome, black casing For more accessories, see axis.com
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

