

# AXIS P3248-LV Network Camera

## Streamlined 4K dome for any light

AXIS P3248-LV offers excellent image quality in brilliant 4K resolution. This IK10-rated camera features Axis Lightfinder 2.0 and Axis Forensic WDR to deliver 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-LV Network Camera

<b>Camera</b>		<b>System integration</b>	
<b>Image sensor</b>	1/1.8" progressive scan RGB CMOS	<b>Application Programming Interface</b>	Open API for software integration, including VAPIX® and AXIS Camera Application Platform; specifications at <a href="https://axis.com/developer-community">axis.com/developer-community</a> . One-click cloud connection ONVIF® Profile G, ONVIF® Profile M, ONVIF® Profile S, and ONVIF® Profile T, specification at <a href="https://onvif.org">onvif.org</a> Support for Session Initiation Protocol (SIP) for integration with Voice over IP (VoIP) systems, peer to peer or integrated with SIP/PBX
<b>Lens</b>	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	<b>Video management systems</b>	Compatible with AXIS Camera Station Edge, AXIS Camera Station Pro, AXIS Camera Station 5, and video management software from Axis' partners available at <a href="https://axis.com/vms">axis.com/vms</a> .
<b>Day and night</b>	Automatically removable infrared-cut filter	<b>Event conditions</b>	Analytics, external input, supervision of input, edge storage events, virtual inputs through API MQTT subscribe
<b>Minimum illumination</b>	<b>With Forensic WDR and Lightfinder 2.0:</b> Color: 0.14 lux at 50 IRE, F1.5 B/W: 0 lux at 50 IRE, F1.5	<b>Event actions</b>	Record video: SD card and network share Upload of images or video clips: FTP, SFTP, HTTP, HTTPS, network 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 call
<b>Shutter speed</b>	1/8500 s to 1/5 s	<b>Built-in installation aids</b>	Pixel counter, remote focus, remote zoom OptimizedIR with adjustable IR illumination intensity
<b>Camera adjustment</b>	Pan ±180°, tilt ±75°, rotation ±175°	<b>Analytics</b>	
<b>System on chip (SoC)</b>		<b>Applications</b>	<b>Included</b> AXIS Object Analytics, 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 <b>Supported</b> AXIS Live Privacy Shield Support for AXIS Camera Application Platform enabling installation of third-party applications, see <a href="https://axis.com/acap">axis.com/acap</a>
<b>Model</b>	ARTPEC-7	<b>AXIS Object Analytics</b>	<b>Object classes:</b> humans, vehicles <b>Scenarios:</b> line crossing, object in area, crossline counting, time in area Up to 10 scenarios <b>Other features:</b> triggered objects visualized with trajectories, color-coded bounding boxes and tables Polygon include/exclude areas Perspective configuration ONVIF Motion Alarm event
<b>Memory</b>	2048 MB RAM, 512 MB Flash	<b>AXIS Scene Metadata</b>	<b>Object classes:</b> humans, faces, vehicles (types: cars, buses, trucks, bikes), license plates Confidence, position
<b>Compute capabilities</b>	Machine learning processing unit (MLPU)	<b>Approvals</b>	
<b>Video</b>		<b>EMC</b>	EN 55035, EN 55032 Class A, EN 61000-3-2, EN 61000-3-3, EN 61000-6-1, EN 61000-6-2 <b>Australia/New Zealand:</b> RCM AS/NZS CISPR 32 Class A <b>Canada:</b> ICES-3(A)/NMB-3(A) <b>Japan:</b> VCCI Class A <b>Korea:</b> KC KN32 Class A, KC KN35 <b>USA:</b> FCC Part 15 Subpart B Class A
<b>Video compression</b>	H.264 (MPEG-4 Part 10/AVC) Baseline, Main and High Profiles H.265 (MPEG-H Part 2/HEVC) Main Profile Motion JPEG	<b>Safety</b>	IEC/EN/UL 62368-1, IS 13252, IEC/EN 62471
<b>Resolution</b>	3840x2160 to 160x90	<b>Environment</b>	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 IP52, IEC/EN 62262 IK10
<b>Frame rate</b>	25/30 fps with power line frequency 50/60 Hz	<b>Network</b>	NIST SP500-267
<b>Video streaming</b>	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	<b>Cybersecurity</b>	
<b>Multi-view streaming</b>	Up to 2 individually cropped out view areas in full frame rate	<b>Edge security</b>	<b>Software:</b> 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 <b>Hardware:</b> Secure boot, Axis Edge Vault with Axis device ID
<b>Image settings</b>	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	<b>Network security</b>	IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2), IEEE 802.1AE (MACsec PSK/EAP-TLS), IEEE 802.1AR,
<b>Pan/Tilt/Zoom</b>	Digital PTZ, preset positions		
<b>Audio</b>			
<b>Audio features</b>	Automatic gain control Voice enhancer		
<b>Audio streaming</b>	Configurable duplex: Two-way (half duplex, full duplex)		
<b>Audio input/output</b>	Two-way audio connectivity through optional AXIS T61 Audio and I/O Interfaces with portcast technology		
<b>Audio input</b>	Input for external unbalanced microphone, optional 5 V microphone power Digital input, optional 12 V ring power Unbalanced line input		
<b>Audio output</b>	Line output		
<b>Audio encoding</b>	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		
<b>Network</b>			
<b>Network protocols</b>	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)		

	HTTPS/HSTS, TLS v1.2/v1.3, Network Time Security (NTS), X.509 Certificate PKI, host-based firewall
<b>Documentation</b>	<p><i>AXIS OS Hardening Guide</i>  <i>Axis Vulnerability Management Policy</i>  <i>Axis Security Development Model</i>            AXIS OS Software Bill of Material (SBOM)            To download documents, go to <a href="https://axis.com/support/cybersecurity/resources">axis.com/support/cybersecurity/resources</a>            To read more about Axis cybersecurity support, go to <a href="https://axis.com/cybersecurity">axis.com/cybersecurity</a></p>
<b>General</b>	
<b>Casing</b>	<p>IP52-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.</p>
<b>Mounting</b>	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
<b>Sustainability</b>	PVC free
<b>Power</b>	Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 1 Class 3 Typical 8.2 W, max 11.4 W
<b>Connectors</b>	<p>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</p>

<b>IR illumination</b>	OptimizedIR with power-efficient, long-life 850 nm IR LEDs Range of reach 40 m (130 ft) or more depending on the scene
<b>Storage</b>	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 <a href="https://axis.com">axis.com</a>
<b>Operating conditions</b>	0 °C to 50 °C (32 °F to 122 °F) Humidity 10–85% RH (non-condensing)
<b>Storage conditions</b>	-40 °C to 65 °C (-40 °F to 149 °F) Humidity 5–95% RH (non-condensing)
<b>Dimensions</b>	Height: 103 mm (4.06 in) ø 149 mm (5.87 in)
<b>Weight</b>	720 g (1.6 lb)
<b>Included accessories</b>	Installation guide, Windows® decoder 1-user license, drill template, Resistorx® T20 L-key, terminal block connectors, cable gaskets, connector guard
<b>Optional accessories</b>	AXIS TP3201 Recessed Mount, optionally with AXIS Device Microphone B, AXIS T94K01D Pendant Kit, AXIS Dome Intrusion Switch C, AXIS T6101 Audio and I/O Interface, AXIS T6112 Audio and I/O Interface, AXIS TP3901 Microphone Kit, AXIS ACI Conduit Adapters, Axis mounts and microphones, smoked dome, black casing 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>