

AXIS P3245-VE Network Camera

Streamlined outdoor-ready HDTV 1080p fixed dome

AXIS P3245-VE offers excellent image quality in HDTV 1080p under any light conditions. This outdoor-ready, IK10-rated camera features Forensic WDR to provide clarity when there's both dark and light areas in the scene. And, Lightfinder 2.0 delivers images with more life-like colors and sharp images of moving objects. Including a varifocal lens with remote zoom and focus capabilities, it eliminates the need for hands-on fine tuning. This camera features enhanced security functionality to ensure the integrity and authenticity of the camera's firmware. Furthermore, it offers Axis Zipstream with support for H.264/H.265, which significantly reduces bandwidth and storage requirements.

- > [HDTV 1080p video quality](#)
- > [Remote focus and zoom](#)
- > [Lightfinder 2.0 and Forensic WDR](#)
- > [Zipstream supporting H.264 and H.265](#)
- > [Signed firmware and secure boot](#)



AXIS P3245-VE Network Camera

Camera		Pre- and post-alarm video or image buffering for recording or upload
Image sensor	1/2.8" progressive scan RGB CMOS	Notification: email, HTTP, HTTPS, TCP, and SNMP trap
Lens	Varifocal, 3.4–8.9 mm, F1.8 Horizontal field of view: 100°–36° Vertical field of view: 53°–20° Remote zoom and focus, P-Iris control, IR corrected	MQTT publish Overlay text, make call
Day and night	Automatically removable infrared-cut filter	Built-in installation aids
Minimum illumination	With Forensic WDR and Lightfinder 2.0: Color: 0.1 lux at 50 IRE, F1.8 B/W: 0.02 lux at 50 IRE, F1.8	Pixel counter, remote focus, remote zoom
Shutter speed	1/66500 s to 2 s	Analytics
Camera angle adjustment	Pan ±180°, tilt ±75°, rotation ±175°	Applications
System on chip (SoC)		Included
Model	ARTPEC-7	AXIS Object Analytics, AXIS Scene Metadata
Memory	1024 MB RAM, 512 MB Flash	AXIS Motion Guard, AXIS Fence Guard, AXIS Loitering Guard
Compute capabilities	Machine learning processing unit (MLPU)	AXIS Video Motion Detection, active tampering alarm
Video		Supported
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	Support for AXIS Camera Application Platform enabling installation of third-party applications, see axis.com/acap
Resolution	1920x1080 to 160x90	AXIS Object Analytics
Frame rate	With WDR: 25/30 fps with power line frequency 50/60 Hz Without WDR: 50/60 fps with power line frequency 50/60 Hz	Object classes: humans, vehicles Scenarios: line crossing, object in area, crossline counting Up to 10 scenarios Other features: triggered objects visualized with color-coded bounding boxes Polygon include/exclude areas Perspective configuration ONVIF Motion Alarm event
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 Scene Metadata
Multi-view streaming	Up to 2 individually cropped out view areas in full frame rate streaming	Object classes: humans, faces, vehicles (types: cars, buses, trucks, bikes), license plates Confidence, position
Image settings	Compression, color saturation, brightness, sharpness, contrast, local contrast, white balance, day/night threshold, tone mapping, exposure control (including automatic gain control), 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	Approvals
Pan/Tilt/Zoom	Digital PTZ, preset positions	EMC
Audio		EN 55032 Class A, EN 55024, 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 KN32 Class A, KC KN35 USA: FCC Part 15 Subpart B Class A Railway: IEC 62236-4
Audio features	Voice enhancer	Safety
Audio input/output	Two-way audio connectivity through optional AXIS T61 Audio and I/O Interfaces with portcast technology	IEC/EN/UL 62368-1, IEC/EN/UL 60950-22, IS 13252
Network		Environment
Network 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, IGMPv1/v2/v3, 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)	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, NEMA TS2 (2.2.7-2.2.9)
System integration		Network
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	NIST SP500-267
Event conditions	Analytics, edge storage events, virtual inputs through API MQTT subscribe	Cybersecurity
Event actions	Record video: SD card and network share Upload of images or video clips: FTP, SFTP, HTTP, HTTPS, network share, and email	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
		Network security
		IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2), IEEE 802.1AE (MACsec PSK/EAP-TLS), 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 ¼"-20 UNC tripod screw thread
		Sustainability
		PVC free

Power	Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 1 Class 3 Typical 3.5 W, max 8 W		ø 149 mm (5.87 in)
Connectors	RJ45 10BASE-T/100BASE-TX PoE Audio and I/O connectivity via AXIS T61 Audio and I/O Interfaces with portcast technology	Weight	With weathershield: 800 g (1.8 lb)
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	Included accessories	Installation guide, Windows® decoder 1-user license, drill template, Resistorx® T20 L-key, cable gaskets, connector guard Weathershield
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)	Optional accessories	AXIS T94M02L Recessed Mount, AXIS T94T01D Pendant Kit, AXIS T6101 Audio and I/O Interface, AXIS T6112 Audio and I/O Interface, AXIS ACI Conduit Adapters, Axis mounts, smoked dome, black casing For more accessories, see axis.com
Storage conditions	-40 °C to 65 °C (-40 °F to 149 °F) Humidity 5–95% RH (non-condensing)	Video management software	AXIS Companion, AXIS Camera Station, video management software from Axis Application Development Partners available at axis.com/vms
Dimensions	Without weathershield: Height: 104 mm (4.09 in)	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