

AXIS P4705-PLVE Panoramic Camera

Dual-sensor with 360° IR and deep learning

This dual-sensor, multidirectional camera offers 2*2 MP at 30 fps. It features Lightfinder and Forensic WDR for sharp, clear images in challenging or poor light conditions. Built on ARTPEC-8, this high-performance camera includes a deep learning processing unit enabling improved processing and storage capabilities. It also allows you to collect and analyze even more data than before – on the edge. Plus, it delivers valuable metadata facilitating fast, easy, and efficient forensic search capabilities in live or recorded video. And, with flexible positioning of both varifocal camera heads plus, remote zoom and focus capabilities, it ensures fast and cost-effective installation.

- > 2*2 MP, multidirectional camera, with one IP address
- > Support for analytics with deep learning on both sensors
- > 360° IR illumination
- > 2.5x zoom
- > Axis Lightfinder and Forensic WDR





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Camera			Audio: audio detection	
Image sensor	2 x 1/2.8" progressive scan RGB CMOS		Device status: above operating temperature, above or below	
Lens Day and night	Varifocal, 3.3–8.1 mm, F1.9–3.2 Horizontal field of view: 107°–39° Vertical field of view: 55°–22° Diagonal field of view: 131°–45° Minimum focus distance: 0.5 m (1.6 ft) Fixed iris, IR corrected, remote zoom and focus Automatically removable infrared-cut filter	operating temperature, below operating temperature, within operating temperature, IP address removed, new IP address, network lost, system ready, ring power overcurrent protection, live stream active, casing open Digital audio: digital signal contains Axis metadata, digital signal has invalid sample rate, digital signal missing, digital signal oke Edge storage: recording ongoing, storage disruption, storage health issues detected		
Minimum illumination	Color: 0.15 lux at 50 IRE, F1.9 B/W: 0 lux at 50 IRE, F1.9 0 lux with IR illumination on		I/O: manual trigger, virtual input MQTT: subscribe Scheduled and recurring: schedule Video: average bitrate degradation, day-night mode, live str	
Shutter speed	1/20000 s to 1.5 s with 60/50 Hz		open, tampering	
Camera angle Pan $\pm 110^{\circ}$, tilt $\pm 75^{\circ}$, rotation $\pm 170^{\circ}$ adjustment		Event actions	Overlay text, day/night mode, flash status LED Audio clips: play, stop	
System on chip	o (SoC)		Illumination: use lights, use lights while the rule is active MQTT: publish	
Model	ARTPEC-8		Notification: HTTP, HTTPS, TCP and email	
Memory	2048 MB RAM, 8192 MB Flash		Pre- and post-alarm video or image buffering for recording or upload	
Compute capabilities	Deep learning processing unit (DLPU)		Record video: SD card and network share SNMP traps: send, send while the rule is active	
Video	Hans (MDEO + D + +0/1) (O) D - 15 - M - 1 - 1 - 1 - 1 - 1 - 1		Upload of images or video clips: FTP, SFTP, HTTP, HTTPS, network share and email	
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	Built-in installation aids	Pixel counter, remote zoom and focus, level grid	
Resolution	2x 1920x1080 (2x HDTV 1080p) to 2x 640x360	Analytics		
Frame rate	Up to 60/50 fps (60/50 Hz) in all resolutions	AXIS Object	Object classes: humans, vehicles (types: cars, buses, trucks,	
Video streaming	Multiple, individually configurable streams in H.264, H.265, and Motion JPEG Axis Zipstream technology in H.264 and H.265 Controllable frame rate and bandwidth VBR/ABR/MBR H.264/H.265 Low latency mode	Analytics	bikes) Trigger conditions: line crossing, object in area, time in areaBETA Up to 10 scenarios Metadata visualized with trajectories and color-coded bounding boxes Polygon include/exclude areas Perspective configuration ONVIF Motion Alarm event	
Image settings	Saturation, contrast, brightness, sharpness, Forensic WDR, white balance, day/night threshold, tone mapping, exposure mode, exposure zones, compression, rotation: 0°, 90°, 180°, 270° including Corridor Format, mirroring, dynamic text and image overlay, polygon privacy mask	Metadata	Object data: Classes: humans, faces, vehicles (types: cars, buses trucks, bikes), license plates Confidence, position Event data: Producer reference, scenarios, trigger conditions	
Audio		Applications	Included	
Audio streaming	Two-way audio via edge-to-edge technology		AXIS Object Analytics, AXIS Video Motion Detection, active tampering alarm, audio detection	
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 Configurable bit rate	Cybersecurity	Support for AXIS Camera Application Platform enabling installation of third-party applications, see axis.com/acap	
Audio input/output	External microphone input or line input, ring power, digital audio input, automatic gain control Network speaker pairing	Edge security	Software: Signed firmware, brute force delay protection, digest authentication, password protection, AES-XTS-Plain64 256bit SD card encryption	
Network			Hardware: Secure boot, Axis Edge Vault with Axis device ID,	
Security	IP address filtering, HTTPS ^a encryption, IEEE 802.1x (EAP-TLS) ^a network access control, user access log, centralized certificate management		signed video, secure keystore (CC EAL4+, FIPS 140-2 level 2 certified hardware protection of cryptographic operations and keys)	
Network protocols	IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPS ^a , HTTP/2, TLS ^a , OoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP*, SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS,	Network security	IEEE 802.1X (EAP-TLS) ^a , IEEE 802.1AR, HTTPS/HSTS ^a , TLS v1.2/v1.3 ^a , Network Time Security (NTS), X.509 Certificate PKI, IP address filtering	
	NTP, NTS, RTSP, RTCP, RTP, SRTP/RTSPS, TCP, UDP, IGMPv1/v2/v3, DHCPv4/v6, ARP, SSH, LLDP, CDP, MQTT v3.1.1, Syslog, Link-Local address (ZeroConf)	Documentation	AXIS OS Hardening Guide Axis Vulnerability Management Policy Axis Security Development Model	
System integra	tion		To download documents, go to axis.com/support/cybersecu- rity/resources	
Application Programming	Open API for software integration, including VAPIX® and AXIS Camera Application Platform; specifications at axis.com		To read more about Axis cybersecurity support, go to axis.com/cybersecurity	
Interface	One-click cloud connection ONVIF® Profile G, ONVIF® Profile M, ONVIF® Profile S, and ONVIF® Profile T, specification at <i>onvif.org</i>	General Casing	IP66-, IP67-, NEMA 4X- and IK10-rated	
Onscreen controls	IR illumination Autofocus Privacy mask		Polycarbonate hard-coated dome Aluminum and plastic casing, weathershield Color: white NCS S 1002–B or black NCS S 9000-N	
Event conditions	Privacy mask Play media clip Analytics, virtual inputs through API	Mounting	Mounting bracket with junction box holes (double-gang, single-gang, 4" square, and 4" octagon) 1/4"-20 UNC tripod screw thread	

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	1/2" (M20) conduit side entry
Sustainability	PVC and BFR/CFR free, 7% recycled plastics, 2% bioplastics
Power	Power over Ethernet (PoE) IEEE802.3at Type 2 Class 3 Typical 6.2 W, max 12.95 W Power over Ethernet (PoE) IEEE802.3at Type 2 Class 4 Typical 8.3 W, max 17.5 W
Connectors	Shielded RJ45 10BASE-T/100BASE-TX/1000BASE-T PoE 3.5 mm mic/line in
IR illumination	OptimizedIR with power-efficient, long-life 850 nm IR LEDs PoE Class 3: range of reach 15 m (50 ft) or more depending on the scene PoE Class 4: range of reach 30 m (98 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	-30 °C to 50 °C (-22 °F to 122 °F) Maximum temperature according to NEMA TS 2 (2.2.7): 74 °C (165 °F) Start-up temperature: -30 °C Humidity 10–100% RH (non-condensing)
Storage conditions	-40 °C to 65 °C (-40 °F to 149 °F) Humidity 5–95% RH (non-condensing)
Approvals	EMC CISPR 32 Class A, CISPR 35, EN 50121-4, EN 55032 Class A, EN 55035, EN 61000-6-1, EN 61000-6-2, FCC Part 15 Subpart B Class A, ICES-3(A)/NMB-3(A), IEC 62236-4, KS C 9832 Class A, KS C 9835, RCM AS/NZS CISPR 32 Class A, VCCI Class A Safety CAN/CSA-C22.2 No. 60950-22, CAN/CSA C22.2 No. 62368-1, IEC/EN/UL 62368-1, IEC/EN/UL 60950-22, IEC/EN 62471, IS 13252

	Environment IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-14, IEC 60068-2-27, IEC 60068-2-78, IEC/EN 62262:2002 IK10, IEC/EN 60529 IP66/IP67, MIL-STD-810H (Method 501.7, 502.7, 505.7, 506.6, 507.6, 509.7, 512.6) ^b , NEMA 250 Type 4X, NEMA TS 2 (2.2.7-2.2.9), VDMA 24364 Network NIST SP500-267
Dimensions	Height: 88 mm (3.5 in) Width: 133 mm (5.2 in) Length: 208 mm (8.2 in)
Weight	975 g (2.1 lb)
Included accessories	Installation guide, Windows® decoder 1-user license, connector kit, weathershield, connector guard
Optional accessories	Black casing, smoked dome, conduit adapters, AXIS T94N02 Pendant Kit AXIS T8415 Wireless Installation Tool AXIS Surveillance Cards 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, Polish, Traditional Chinese
Warranty	5-year warranty, see axis.com/warranty

a. This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (openssl.org), and cryptographic software written by Eric Young (eay@cryptsoft.com).
 b. Method 505.7 with weathershield

Environmental responsibility:

axis.com/environmental-responsibility

