

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			Device status: above operating temperature, above or below	
Image sensor	2 x 1/2.8" progressive scan RGB CMOS		operating temperature, below operating temperature, within	
Lens	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		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 okay Edge storage: recording ongoing, storage disruption, storage health issues detected	
Day and night	Automatically removable infrared-cut filter		I/O: manual trigger, virtual input	
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		MQTT: subscribe Scheduled and recurring: schedule Video: average bitrate degradation, day-night mode, live stream open, tampering	
Shutter speed	1/20000 s to 1.5 s with 60/50 Hz	Event actions	Overlay text, day/night mode, flash status LED	
Camera angle adjustment	Pan ±110°, tilt ±75°, rotation ±170°		Audio clips: play, stop Illumination: use lights, use lights while the rule is active	
System on chip	o (SoC)		MQTT: publish Notification: HTTP, HTTPS, TCP and email	
Model	ARTPEC-8		Pre- and post-alarm video or image buffering for recording or	
Memory	2048 MB RAM, 8192 MB Flash		upload Record video: SD card and network share	
Compute capabilities	Deep learning processing unit (DLPU)		SNMP traps: send, send while the rule is active Upload of images or video clips: FTP, SFTP, HTTP, HTTPS, network share and email	
Video Video compression	H.264 (MPEG-4 Part 10/AVC) Baseline, Main and High Profiles H.265 (MPEG-H Part 2/HEVC) Main Profile	Built-in installation aids	Pixel counter, remote zoom and focus, level grid	
	Motion JPEG	Analytics		
Resolution	2x 1920x1080 (2x HDTV 1080p) to 2x 640x360	Applications	Included	
Frame rate	Up to 60/50 fps (60/50 Hz) in all resolutions		AXIS Object Analytics, Scene metadata, AXIS Video Motion Detection, active tampering alarm, audio detection	
Video streaming	Multiple, individually configurable streams in H.264, H.265, and Motion JPEG Axis Zipstream technology in H.264 and H.265		Support for AXIS Camera Application Platform enabling installation of third-party applications, see axis.com/acap	
	Controllable frame rate and bandwidth VBR/ABR/MBR H.264/H.265 Low latency mode	AXIS Object Analytics	Object classes: humans, vehicles (types: cars, buses, trucks, bikes) Scenarios: line crossing, object in area, crossline counting,	
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		occupancy in area, 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	
Audio	Audia in aimalau		ONVIF Motion Alarm event	
Audio streaming	Audio in, simplex Two-way audio via edge-to-edge technology External microphone input or line input, ring power, digital audio input, automatic gain control	Scene metadata	Object classes: humans, faces, vehicles (types: cars, buses, trucks, bikes), license plates Object attributes: Vehicle color, upper/lower clothing color, confidence, position	
	Network speaker pairing	Approvals	.,	
	Audio features through portcast technology: two-way audio connectivity, voice enhancer	EMC	CISPR 35, CISPR 32 Class A, EN 55035, EN 55032 Class A,	
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		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	
Network			Korea: KS C 9835, KS C 9832 Class A USA: FCC Part 15 Subpart B Class A	
Network protocols	IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPS, HTTP/2, TLS, QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour),		Railway: IEC 62236-4	
protocois	UPnP®, SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, NTS, RTSP, RTCP, RTP, SRTP/RTSPS, TCP, UDP, IGMPv1/v2/v3, DHCPv4/v6, ARP, SSH, LLDP, CDP, MQTT v3.1.1, Secure syslog	Safety	CAN/CSA C22.2 No. 60950-22, CAN/CSA C22.2 No. 62368-1 ed. 3, IEC/EN/UL 62368-1, IEC/EN 62471, IEC/EN/UL 60950-22, IS 13252	
	(RFC 3164/5424, UDP/TCP/TLS), Link-Local address (ZeroConf)	Environment	IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-14	
Application Open API for software integration, including VAPIX® and AXIS Camera Application Platform; specifications at			IEC 60068-2-27, IEC 60068-2-78, IEC/EN 60529 IP66/IP67, IEC/EN 62262:2002 IK10, MIL-STD-810H (Method 501.7, 502.7, 505.7, 506.6, 507.6, 509.7, 512.6) ^a , NEMA 250 Type 4X, NEMA TS 2 (2.2.7-2.2.9)	
Interface	axis.com/developer-community One-click cloud connection ONVIF® Profile G, ONVIF® Profile M, ONVIF® Profile S, and	Network	NIST SP500-267	
		Cybersecurity	ETSI EN 303 645	
Опсакост	ONVIF® Profile T, specification at onvif.org	Cybersecurity		
Onscreen controls	IR illumination Autofocus Privacy mask	Edge security	Software: Signed firmware, brute force delay protection, digest authentication and OAuth 2.0 RFC6749 OpenID Authorization	
	Play media clip		Code Flow for centralized ADFS account management, password protection, AES-XTS-Plain64 256bit SD card encryption	
Event conditions	Analytics, virtual inputs through API Audio: audio detection		Hardware: Axis Edge Vault cybersecurity platform	

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	TPM 2.0 (CC EAL4+, FIPS 140-2 Level 2), secure element (CC EAL 6+), system-on-chip security (TEE), Axis device ID, secure keystore, signed video, secure boot, encrypted filesystem (AES-XTS-Plain64 256bit)	
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-, IP67-, NEMA 4X- and IK10-rated Polycarbonate hard-coated dome Aluminum and plastic casing, weathershield Color: white NCS S 1002-B or black NCS S 9000-N	
Mounting	Mounting bracket with junction box holes (double-gang, single-gang, 4" square, and 4" octagon) 1/4"-20 UNC tripod screw thread 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)
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 <i>axis.com</i>
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, Dutch, Czech, Swedish, Finnish, Turkish, Thai, Vietnamese
Warranty	5-year warranty, see axis.com/warranty

a. Method 505.7 with weathershield

