

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
Image sensor	2 x 1/2.8" progressive scan RGB CMOS		operati
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)		operati networ live str Digital has inv Edge st
Day and night	Fixed iris, IR corrected, remote zoom and focus Automatically removable infrared-cut filter		health I/O: ma
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: Schedu Video: open, f
Shutter speed	1/20000 s to 1.5 s with 60/50 Hz	Event actions	Overla
Camera angle adjustment	Pan \pm 110°, tilt \pm 75°, rotation \pm 170°		Audio Illumin MQTT:
System on chip Model	ARTPEC-8		Notific Pre- ar
Memory	2048 MB RAM, 8192 MB Flash		upload Record
Compute capabilities	Deep learning processing unit (DLPU)		SNMP Upload
Video 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 Analytics	share a Pixel c
Resolution	2x 1920x1080 (2x HDTV 1080p) to 2x 640x360	Applications	Include
Frame rate	Up to 60/50 fps (60/50 Hz) in all resolutions	, pp. cations	AXIS 0
Video streaming	Multiple, individually configurable streams in H.264, H.265, and Motion JPEG Axis Zipstream technology in H.264 and H.265		Detect Suppor installa
Image cottings	Controllable frame rate and bandwidth VBR/ABR/MBR H.264/H.265 Low latency mode	AXIS Object Analytics	Object bikes, o Scenar occupa
Image settings	Saturation, contrast, brightness, sharpness, Forensic WDR, white balance, day/night threshold, tone mapping, exposure mode, exposure zones, barrel distortion correction, compression, rotation: 0°, 90°, 180°, 270° including corridor format, mirroring, dynamic text and image overlay, polygon privacy mask		Up to Other color-c Polygo Perspec
Audio			ONVIF
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	AXIS Scene Metadata	Object trucks, Object confide
	Network speaker pairing Audio features through portcast technology: two-way audio	Approvals	
Audio encoding	connectivity, voice enhancer 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	EMC	CISPR EN 501 Austra Canada Japan:
Network			Korea: USA: F
Network protocols	IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPS, HTTP/2, TLS, QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour),		Railwa
	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/C CAN/C IEC/EN
System integra	(RFC 3164/5424, UDP/TCP/TLS), Link-Local address (ZeroConf)	Environment	IEC 60
Application Programming Interface	Open API for software integration, including VAPIX® and AXIS Camera Application Platform; specifications at axis.com/developer-community		IEC/EN 502.7, NEMA
	One-click cloud connection	Network	NIST S
	ONVIF® Profile G, ONVIF® Profile M, ONVIF® Profile S, and ONVIF® Profile T, specification at <i>onvif.org</i>	Cybersecurity	etsi en
Onscreen	IR illumination	Cybersecurity	
controls	Autofocus Privacy mask Play media clip	Edge security	Softwa authen Code F
Event conditions	Analytics, virtual inputs through API Audio: audio detection		protect Hardw

Event actions	Device status: above operating temperature, above or below 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 okay Edge storage: recording ongoing, storage disruption, storage health issues detected I/O: manual trigger, virtual input MQIT: subscribe Scheduled and recurring: schedule Video: average bitrate degradation, day-night mode, live stream open, tampering Overlay text, day/night mode, flash status LED Audio clips: play, stop Illumination: use lights, use lights while the rule is active	
	MQTT: publish Notification: HTTP, HTTPS, TCP and email Pre- and post-alarm video or image buffering for recording or upload Record video: SD card and network share SNMP traps: send, send while the rule is active Upload of images or video clips: FTP, SFTP, HTTP, HTTPS, network share and email	
Built-in installation aids	Pixel counter, remote zoom and focus, level grid	
Analytics		
Applications	Included AXIS Object Analytics, AXIS Scene Metadata, AXIS Video Motion Detection, active tampering alarm, audio detection Support for AXIS Camera Application Platform enabling installation of third-party applications, see <i>axis.com/acap</i>	
AXIS Object Analytics	Object classes: humans, vehicles (types: cars, buses, trucks, bikes, other) Scenarios: line crossing, object in area, crossline counting, 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 ONVIF Motion Alarm event	
AXIS Scene Metadata	Object classes: humans, faces, vehicles (types: cars, buses, trucks, bikes), license plates Object attributes: Vehicle color, upper/lower clothing color, confidence, position	
Approvals		
EMC	CISPR 35, CISPR 32 Class A, EN 55035, EN 55032 Class A, 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: KS C 9835, KS C 9832 Class A USA: FCC Part 15 Subpart B Class A Railway: IEC 62236-4	
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	
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 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)	
Network	NIST SP500-267	
Cybersecurity	ETSI EN 303 645, FIPS 140	
Cybersecurity		
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: Axis Edge Vault cybersecurity platform	

	TPM 2.0 (CC EAL4+, FIPS 140-2 Level 2), secure element (CC EAL 6+), system-on-chip security (TEE), Axis device ID, secure		PoE Class 4: range of reach 30 m (98 ft) or more depending on the scene	
Notwork coourity	keystore, signed video, secure boot, encrypted filesystem (AES-XTS-Plain64 256bit)	Storage	Support for microSD/microSDHC/microSDXC card Support for SD card encryption (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		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	
	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/cybersecu- rity/resources To read more about Axis cybersecurity support, go to axis.com/cybersecurity		(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)	
General Casing	IP66-, IP67-, NEMA 4X- and IK10-rated	Weight	975 q (2.1 lb)	
Casing	Polycarbonate hard-coated dome Aluminum and plastic casing, weathershield Color: white NCS 5 1002-B or black NCS 5 9000-N	Included accessories	Installation guide, Windows [®] decoder 1-user license, connector kit, weathershield, connector guard	
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	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>	
Sustainability	PVC and BFR/CFR free, 7% recycled plastics, 2% bioplastics	Video	AXIS Companion, AXIS Camera Station, video management	
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	management software	software from Axis Application Development Partners availabl at axis.com/vms	
		Languages	English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Polish, Traditional	
Connectors	Shielded RJ45 10BASE-T/100BASE-TX/1000BASE-T PoE 3.5 mm mic/line in		Chinese, Dutch, Czech, Swedish, Finnish, Turkish, Thai, Vietnamese	
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	Warranty 5-year warranty, see axis.com/warranty a. Method 505.7 with weathershield		

