

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





AXIS P4705-PLVE Panoramic Camera

C		
Camera Image sensor	2 x 1/2.8" progressive scan RGB CMOS	
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	
Day and night	Automatically removable infrared-cut filter	
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	
Shutter speed	1/20000 s to 1.5 s with 60/50 Hz	Event actions
Camera angle adjustment	Pan ±110°, tilt ±75°, rotation ±170°	
System on chip		
Model	ARTPEC-8	
Memory	2048 MB RAM, 8192 MB Flash	
Compute capabilities	Deep learning processing unit (DLPU)	
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
Resolution	2x 1920x1080 (2x HDTV 1080p) to 2x 640x360	Analytics Applications
Frame rate	Up to 60/50 fps (60/50 Hz) in all resolutions	Applications
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	AXIS Object Analytics
lmage 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	
Audio		
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
	Network speaker pairing	Approvals
Audia ana dia a	Audio features through portcast technology: two-way audio connectivity, voice enhancer	EMC
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	
Network		
Network protocols	IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPS, HTTP/2, TLS, QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour),	
prococolo		
	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, MQIT v3.1.1, Secure syslog (PEC 2164/E424, UDP/CP/II.5), Link Logal address (ZeroConf)	Safety
System interne	NTS, RTSP, RTCP, RTP, SRTP/RTSPS, TCP, UDP, IGMPv1/v2/v3, DHCPv4/v6, ARP, SSH, LLDP, CDP, MQTT v3.1.1, Secure syslog (RFC 3164/5424, UDP/TCP/TLS), Link-Local address (ZeroConf)	Safety Environment
System integra	NTS, RTSP, RTCP, RTP, SRTP/RTSPS, TCP, UDP, IGMPv1/v2/v3, DHCPv4/v6, ARP, SSH, LLDP, CDP, MOTT v3.1.1, Secure syslog (RFC 3164/5424, UDP/TCP/TLS), Link-Local address (ZeroConf) tion	
System integra Application Programming Interface	NTS, RTSP, RTCP, RTP, SRTP/RTSPS, TCP, UDP, IGMPv1/v2/v3, DHCPv4/v6, ARP, SSH, LLDP, CDP, MQTT v3.1.1, Secure syslog (RFC 3164/5424, UDP/TCP/TLS), Link-Local address (ZeroConf) tion Open API for software integration, including VAPIX® and AXIS Camera Application Platform; specifications at <i>axis.com/developer-community</i>	Environment
Application Programming	NTS, RTSP, RTCP, RTP, SRTP/RTSPS, TCP, UDP, IGMPv1/v2/v3, DHCPv4/v6, ARP, SSH, LLDP, CDP, MOTT v3.1.1, Secure syslog (RFC 3164/5424, UDP/TCP/TLS), Link-Local address (ZeroConf) tion Open API for software integration, including VAPIX® and AXIS Camera Application Platform; specifications at <i>axis.com/developer-community</i> One-click cloud connection	Environment Network
Application Programming	NTS, RTSP, RTCP, RTP, SRTP/RTSPS, TCP, UDP, IGMPv1/v2/v3, DHCPv4/v6, ARP, SSH, LLDP, CDP, MQTT v3.1.1, Secure syslog (RFC 3164/5424, UDP/TCP/TLS), Link-Local address (ZeroConf) tion Open API for software integration, including VAPIX® and AXIS Camera Application Platform; specifications at <i>axis.com/developer-community</i>	Environment Network Cybersecurity
Application Programming Interface Onscreen	NTS, RTSP, RTCP, RTP, SRTP/RTSPS, TCP, UDP, IGMPv1/v2/v3, DHCPv4/v6, ARP, SSH, LLDP, CDP, MQTT v3.1.1, Secure syslog (RFC 3164/5424, UDP/TCP/TLS), Link-Local address (ZeroConf) tion Open API for software integration, including VAPIX® and AXIS Camera Application Platform; specifications at <i>axis.com/developer-community</i> One-click cloud connection ONVIF® Profile G, ONVIF® Profile M, ONVIF® Profile S, and ONVIF® Profile T, specification at <i>onvif.org</i> IR illumination	Environment Network Cybersecurity Cybersecurity
Application Programming Interface	NTS, RTSP, RTCP, RTP, SRTP/RTSPS, TCP, UDP, IGMPv1/v2/v3, DHCPv4/v6, ARP, SSH, LLDP, CDP, MOTT v3.1.1, Secure syslog (RFC 3164/5424, UDP/TCP/TLS), Link-Local address (ZeroConf) tion Open API for software integration, including VAPIX® and AXIS Camera Application Platform; specifications at <i>axis.com/developer-community</i> One-click cloud connection ONVIF® Profile G, ONVIF® Profile M, ONVIF® Profile S, and ONVIF® Profile T, specification at <i>onvif.org</i>	Environment Network Cybersecurity

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 MOIT: 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 MOIT: publish		
D 111	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, 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) Seenarios: 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		
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	SPR 35, CISPR 32 Class A, EN 55035, EN 55032 Class A, 50121-4, EN 61000-6-1, EN 61000-6-2 istralia/New Zealand: RCM AS/NZS CISPR 32 Class A nada: ICES-3(A)/NMB-3(A) pan: VCCI Class A rea: KS C 9835, KS C 9832 Class A SA: FCC Part 15 Subpart B Class A ilway: 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 firmware, 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	
	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)	
	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	Operating conditions	Recording to network-attached storage (NAS) For SD card and NAS recommendations see axis.com	
			-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- ritv/resources		(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)	
	To read more about Axis cybersecurity support, go to axis.com/cybersecurity	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 Languages	software from Axis Application Development Partners available at axis.com/vms	
			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	Warranty	5-year warranty, see axis.com/warranty	
	PoE Class 3: range of reach 15 m (50 ft) or more depending on the scene	a. Method 505.7 with weathershield		

