

AXIS P7304 Video Encoder

Full-featured, 4-channel video encoder with HD analog support

AXIS P7304 is a full-featured, 4-channel video encoder that adds the benefits of IP surveillance to any analog camera system. It supports standard and HD analog cameras up to 4K resolution, and analog PTZ cameras. Enhanced security features such as signed firmware and secure boot ensure the integrity and authenticity of the encoder's firmware. Plus, Zipstream with support for H.264/H.265 video compression significantly reduces bandwidth and storage requirements. The encoder features two-way audio, I/O ports, and a memory card slot for edge storage. It also comes with intelligent analytics such as motion detection, audio detection and tampering alarm.

- > [Support for HD analog cameras up to 4K](#)
- > [PTZ control](#)
- > [2-way audio and configurable I/O](#)
- > [Zipstream with support for H.264/H.265](#)
- > [Signed firmware and secure boot](#)



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System on chip (SoC)		Data streaming	Event data
Model	ARTPEC-7	Analytics	
Memory	1024 MB RAM, 512 MB Flash Battery backed-up real-time clock	Applications	Included AXIS Motion Guard, AXIS Fence Guard, AXIS Loitering Guard, AXIS Video Motion Detection Support for AXIS Camera Application Platform enabling installation of third-party applications, see axis.com/acap
Video		Cybersecurity	
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	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
Resolution	176x144/176x120 (PAL/NTSC) to 720x576/720x480 (PAL/NTSC). Also high definition TVI, high definition CVI and high definition analog HD (1280x720 and 1920x1080) One channel for resolutions above 1080p (1920x1080) ^a	Network security	IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2) ^b , IEEE 802.1AE (MACsec PSK/EAP-TLS), IEEE 802.1AR, HTTPS/HSTS ^b , TLS v1.2/v1.3 ^b , Network Time Security (NTS), X.509 Certificate PKI, host-based firewall
Frame rate	25/30 fps in all resolutions up to 1080p Up to 30 fps in quad view in full resolution 1080p One channel Quad HD up to 25/30 fps One channel 4K up to 15 fps	Documentation	
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/MBR H.264/H.265 Quad view	<i>AXIS OS Hardening Guide</i> <i>Axis Vulnerability Management Policy</i> <i>Axis Security Development Model</i> 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	
Image settings	Compression, color, brightness, contrast, rotation: 0°, 90°, 180°, 270°, aspect ratio correction, mirroring of images, text and image overlay, privacy mask, enhanced deinterlace filter, video termination, anti-aliasing, sharpness, noise reduction, local enhancement	General	
Pan/Tilt/Zoom	Wide range of analog PTZ cameras supported, drivers included in the firmware Up to 100 preset positions/camera, Guard tour, PTZ control queue Supports Windows compatible joysticks Compatible with Coaxitron® by Pelco	Casing	Stand alone, metal casing, wall mount
Audio		Sustainability	PVC free
Audio encoding	24bit LPCM, AAC-LC 8/16/32/48 kHz, G.711 PCM 8 kHz, G.726 ADPCM 8 kHz, Opus 8/16/48 kHz Configurable bit rate	Power	8-28 V DC, max 8.2 W Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 1 Class 3
Audio input/output	Two analog or digital external microphone input or line input, line output.	Connectors	Four analog composite video BNC input RJ45 10BASE-T/100BASE-T/1000 BASE-T PoE 6-pin 2.5 mm I/O terminal block with four configurable inputs and outputs 2 pcs 3.5 mm mic/line in, 1 pcs 3.5 mm line out RS485/RS422, 2 pcs, 2 pos, full duplex, terminal block
Network		Storage	Support for microSD/microSDHC/microSDXC card Support for SD card encryption (AES-XTS-Plain64 256bit) Support for recording to network-attached storage (NAS) For SD card and NAS recommendations see axis.com
IP address	One IP address for four channels	Operating conditions	0 °C to 50 °C (32 °F to 122 °F) Humidity 10-85% RH (non-condensing)
Security	IP address filtering, HTTPS ^b encryption, IEEE 802.1X ^b network access control, user access log, centralized certificate management	Storage conditions	-40 °C to 65 °C (-40 °F to 149 °F) Humidity 5-95% RH (non condensing)
Network protocols	IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTP/2, HTTPS ^b , TLS ^b , QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP ^c , 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, LLDP, CDP, MQTT v3.1.1, Secure syslog (RFC 3164/5424, UDP/TCP/TLS), Link-Local address (ZeroConf)	Approvals	EMC EN 55032 Class A, EN 61000-3-2, EN 61000-3-3, EN 55024, EN 61000-6-1, EN 61000-6-2, FCC Part 15 Subpart B Class A, ICES-003 Class A, VCCI Class A, RCM AS/NZS CISPR 32 Class A, KC KN32 Class A, KC KN35 Safety IEC/EN/UL 62368-1 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 Network NIST SP500-267
System integration		Dimensions	187 x 37 mm (7.4 x 1.5 in)
Application Programming Interface	Open API for software integration, including VAPIX [®] and AXIS Camera Application Platform; specifications at axis.com AXIS Video Hosting System (AVHS) with One-Click Camera Connection One-click cloud connection ONVIF [®] Profile G, ONVIF [®] Profile M, ONVIF [®] Profile S and ONVIF [®] Profile T, specification at onvif.org	Weight	650 g (1.4 lb)
Video management systems	Compatible with AXIS Camera Station Edge, AXIS Camera Station Pro, AXIS Camera Station 5, and video management software from Axis' partners available at axis.com/vms .	Included accessories	Installation guide, Windows [®] decoder 1-user license, DC input plug, 6-pin I/O plug, 2 pcs 2-pin RS485/RS422 plugs
Event triggers	Analytics, video loss, edge storage events MQTT subscribe	Optional accessories	For more accessories, see axis.com
Event actions	File upload: FTP, SFTP, HTTP, HTTPS network share and email Notification: email, HTTP, HTTPS and TCP External output activation MQTT publish Pre- and post-alarm video buffering PTZ preset Status LED	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

a. When you enable one channel for resolutions above 1080p (1920x1080), it disables channel 3.

- b. *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).*