

AXIS P7316 Video Encoder

Full-featured, 16-channel video encoder

AXIS P7316 is a full-featured, 16-channel video encoder that adds IP benefits to any analog camera system. It supports standard and HD analog cameras up to 4K resolution as well as PTZ control over RS485. This rack-mounted encoder features support for two-way audio and intelligent analytics such as motion detection and active tampering alarm. An SFP slot enables long-distance fiber-optic connection and network redundancy. AXIS P7316 includes Zipstream with support for H.264/H.265 to drastically reduce bandwidth and storage requirements. Furthermore, it offers built-in cybersecurity features such as signed firmware and secure boot.

- > 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		Data streaming	Event data
Model	4x ARTPEC-7	Analytics	
Memory Video	4x 1024 MB RAM, 512 MB Flash Battery backed-up real-time clock	Applications	Included AXIS Video Motion Detection, active tampering alarm Support for AXIS Camera Application Platform enabling
Video	H.264 (MPEG-4 Part 10/AVC) Baseline, Main and High profiles		installation of third-party applications, see axis.com/acap
compression	H.265 (MPEG-H Part 2/HEVC) Main profile	Cybersecurity	
Resolution	Motion JPEG 176x144/176x120 (PAL/NTSC) to 720x576/720x480 (PAL/NTSC) High definition TVI, high definition CVI and high definition analog HD (1280x720 and 1920x1080) 4x one channel 4K (3840x2160)	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: Secure boot
Frame rate	25/30 fps in all resolutions up to 1080p Up to 30 fps in quad view in full resolution 1080p 4x one channel 4K up to 15 fps	Network security	IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2) ^a , IEEE 802.1AR, HTTPS/HSTS ^a , TLS v1.2/v1.3 ^a , Network Time Security (NTS), X.508 Certificate PKI, IP address filtering
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 Quad view	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
Image settings	Rotation: 0°, 90°, 180°, 270°, de-interlace filter, Compression, color, brightness, contrast, aspect ratio correction, mirroring of images, text and image overlay, polygon privacy mask, video		axis.com/cybersecurity
		General	
Pan/Tilt/Zoom	termination, sharpness, noise reduction Wide range of analog PTZ cameras supported, drivers included in	Casing	Metal casing 1U stand alone, rackmount or wallmount Color: NCS S 5502-B
Tany III () 200111	Up to 100 preset positions/camera, Guard tour, PTZ control queue Supports Windows compatible joysticks Compatible with Coaxitron® by Pelco	Sustainability	PVC free
		Power	max 32 W
		Connectors	16 pcs analog video BNC inputs
Audio			8 pcs 3.5 mm mic/line in 4 pcs 3.5 mm audio line out
Audio streaming	Two-way, full duplex		1 pc 1000 BASE-TX Ethernet (RJ45)
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		1 pc auxiliary ethernet (RJ45) 1 pc Gbps SFP slot 4 pcs terminal block for up to 4 configurable external input/output 4 pcs terminal block for RS485/RS422 serial communication (furticles)
Audio input/output	8 analog or digital external microphone input or line input, and 4 line output		
Network IP address	Four ID address and now four channels		duplex) 1 pc DC input terminal block
	Four IP address, one per four channels	Storage	Support for microSD/microSDHC/microSDXC card and encryption
Security	IP address filtering, HTTPS ^a encryption, IEEE 802.1x (EAP-TLS) ^a , network access control,user access log, multi-level user, Axis Edge Vault with Axis device ID		Recording to network-attached storage (NAS) For SD card and NAS recommendations see axis.com
Network	IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTP/2, HTTPS ^a , TLS ^a , QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP®, 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)	Operating conditions	0 °C to 50 °C (32 °F to 122 °F) Humidity 10–85% RH (non-condensing)
protocols		Storage	-40 °C to 65 °C (-40 °F to 149 °F)
		conditions	Humidity 5-95% RH (non-condensing)
		Approvals	EMC
System integra	, , , , , , , , , , , , , , , , , , , ,		EN 55032 Class A, EN 61000-3-2, EN 61000-3-3, EN 55035, EN 61000-6-1, EN 61000-6-2, FCC Part 15 Subpart B Class A,
Application Programming Interface	Open API for software integration, including VAPIX® and AXIS Camera Application Platform; specifications at <i>axis.com</i> One-click cloud connection ONVIF® Profile G, ONVIF® Profile M, ONVIF® Profile S, and ONVIF® Profile T, specification at <i>onvif.org</i>		ICES-3(A)/NMB-3(A), VCCI Class A, RCM AS/NZS CISPR 32 Class A KS C 9832 Class A, KS C 9835 Safety IEC/EN/UL 62368-1 Environment
	Device status: IP address removed, network lost, new IP address, storage failure, system ready Edge storage: recording ongoing, storage disruption I/O: manual trigger, virtual input MQTT subscribe		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
		Dimensions	44 x 145 x 440 mm (1.7 x 5.7 x 17.3 in)
	PTZ: PTZ malfunctioning, PTZ movement, PTZ preset position	Weight	2100 g (4.6 lb)
	reached, PTZ ready Scheduled and recurring: scheduled event Video: average bitrate degradation, live stream open, tampering Video encoder: video connected	Included accessories	Installation guide, Windows® decoder 1-user license, mains power supply, mounting kit (incl 2 mount brackets and 4 rubber feet) and connector kit (8 pcs 2-pin RS485/RS422 plugs, 4 pcs 6-pin I/O plugs)
Event actions	Guard tours, upload of images or video clips, notification, overlay text, preset positions, recordings, SNMP trap messages, status LED, video clips	Optional accessories	For accessories, see axis.com
	MQTT publish	Video management software	AXIS Companion, AXIS Camera Station, video management software from Axis Application Development Partners available at axis.com/vms

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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. 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).

