

# AXIS M7116 Video Encoder

Cost-effective, 16-channel video encoder with Zipstream

AXIS M7116 is a cost-effective, 16 channel video encoder that adds the benefits of IP surveillance to analog camera systems. It supports standard resolution analog cameras as well as PTZ control over RS-485. This rack-mounted encoder features memory card slots for edge storage as well as support for intelligent analytics such as motion detection and active tampering alarm. Including Zipstream with H.264/H.265, it significantly reduces bandwidth and storage requirements without compromising image quality. Furthermore, it offers enhanced security features such as signed firmware and secure boot.

- > **30 fps on all 16 channels**
- > **PTZ control**
- > **Zipstream with support for H.264/H.265**
- > **Signed firmware and secure boot**
- > **Support for intelligent analytics**



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System on chip (SoC)		Applications	Included
<b>Model</b>	ARTPEC-7		AXIS Video Motion Detection, active tampering alarm Support for AXIS Camera Application Platform enabling installation of third-party applications, see <a href="http://axis.com/acap">axis.com/acap</a>
<b>Memory</b>	1024 MB RAM, 512 MB Flash Battery backed-up real-time clock		
Video		General	
<b>Video compression</b>	H.264 (MPEG-4 Part 10/AVC) Baseline, Main and High profiles H.265 (MPEG-H Part 2/HEVC) Main profile Motion JPEG	<b>Casing</b>	Metal casing 1U stand alone, rackmount or wallmount Color: white NCS S 1002-B
<b>Resolution</b>	176x144/176x120 (PAL/NTSC) to 720x576/720x480 (PAL/NTSC)	<b>Sustainability</b>	PVC free
<b>Frame rate</b>	25/30 fps in all resolutions Up to 30 fps in quad view in full resolution	<b>Power</b>	max 26 W
<b>Video streaming</b>	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	<b>Connectors</b>	16 pcs analog video BNC inputs 1 pc 1000 BASE-TX Ethernet (RJ45) 4 pcs terminal block for RS485/RS422 serial communication (full duplex) 1 pc DC input terminal block
<b>Image settings</b>	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 termination, sharpness, noise reduction	<b>Storage</b>	Support for microSD/microSDHC/microSDXC card and encryption Recording to network-attached storage (NAS) For SD card and NAS recommendations see <a href="http://axis.com">axis.com</a>
Network		<b>Operating conditions</b>	0 °C to 50 °C (32 °F to 122 °F) Humidity 10–85% RH (non-condensing)
<b>IP address</b>	Four IP address, one per four channels	<b>Storage conditions</b>	-40 °C to 65 °C (-40 °F to 149 °F) Humidity 5–95% RH (non-condensing)
<b>Security</b>	Password protection, IP address filtering, HTTPS <sup>a</sup> encryption, IEEE 802.1x (EAP-TLS) <sup>a</sup> , network access control, digest authentication, user access log, multi-level user, brute force delay protection, signed firmware, secure boot, Axis Edge Vault with Axis device ID	<b>Approvals</b>	EMC 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, ICES-3(A)/NMB-3(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
<b>Supported protocols</b>	IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPS <sup>a</sup> , SSL/TLS <sup>a</sup> , QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP <sup>b</sup> , SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, RTSP, RTP, SRTP, RTCP, ICMP, DHCP, ARP, SOCKS, SSH, CDP, MQTT v3.1.1	<b>Dimensions</b>	44 x 145 x 440 mm (1.7 x 5.7 x 17.3 in)
System integration		<b>Weight</b>	2050 g (4.5 lb)
<b>Application Programming Interface</b>	Open API for software integration, including VAPIX <sup>®</sup> and AXIS Camera Application Platform; specifications at <a href="http://axis.com">axis.com</a> One-click cloud connection ONVIF <sup>®</sup> Profile G, ONVIF <sup>®</sup> Profile S, and ONVIF <sup>®</sup> Profile T, specification at <a href="http://onvif.org">onvif.org</a>	<b>Included accessories</b>	Installation guide, Windows <sup>®</sup> decoder 1-user license, DC input plug, 8 pcs 2-pin RS485/RS422 plugs, mains power supply, mounting and connector kit
<b>Event conditions</b>	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 PTZ: PTZ malfunctioning, PTZ movement, PTZ preset position reached, PTZ ready Scheduled and recurring: scheduled event Video: average bitrate degradation, live stream open, tampering Video encoder: video connected	<b>Optional accessories</b>	For accessories, see <a href="http://axis.com">axis.com</a>
<b>Event actions</b>	Guard tours, upload of images or video clips, notification, overlay text, preset positions, recordings, SNMP trap messages, status LED, video clips MQTT publish	<b>Video management software</b>	AXIS Companion, AXIS Camera Station, video management software from Axis Application Development Partners available at <a href="http://axis.com/vms">axis.com/vms</a>
<b>Data streaming</b>	Event data	<b>Languages</b>	English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Polish, Traditional Chinese
Analytics		<b>Warranty</b>	5-year warranty, see <a href="http://axis.com/warranty">axis.com/warranty</a>
		<p>a. This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (<a href="http://openssl.org">openssl.org</a>), and cryptographic software written by Eric Young (<a href="mailto:ey@cryptsoft.com">ey@cryptsoft.com</a>).</p> <p>Environmental responsibility: <a href="http://axis.com/environmental-responsibility">axis.com/environmental-responsibility</a></p>	