

# AXIS M7104 Video Encoder

Cost-effective, 4-channel video encoder with Zipstream

AXIS M7104 is a cost-effective, 4-channel video encoder that adds the benefits of IP surveillance to an analog camera system. It supports standard-resolution analog cameras as well as PTZ control over RS-485/422. The encoder features a memory card slot for edge storage and support for intelligent analytics such as motion detection and active tampering alarm. 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.

- > [Full frame rate in all resolutions](#)
- > [Zipstream with support for H.264/H.265](#)
- > [Signed firmware and secure boot](#)
- > [Extended capacity for analytics](#)
- > [PoE and PTZ support](#)



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Video	
<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>Resolution</b>	176x144/176x120 (PAL/NTSC) to 720x576/720x480 (PAL/NTSC)
<b>Frame rate</b>	25/30 fps in all resolutions Up to 30 fps in quad view in full resolution
<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/MBR H.264/H.265 Quad view
<b>Image settings</b>	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
Network	
<b>IP address</b>	One IP address for four channels
<b>Security</b>	Password protection, IP address filtering, HTTPS <sup>a</sup> encryption, IEEE 802.1X <sup>a</sup> network access control, digest authentication, user access log, centralized certificate management, signed firmware, secure boot
<b>Supported protocols</b>	IPv4, IPv6, USGv6, HTTP, HTTPS <sup>a</sup> , SSL/TLS <sup>a</sup> , QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, Bonjour, UPnP <sup>®</sup> , SNMP v1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, RTSP, RTP, SRTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP, ARP, SOCKS, SSH
System integration	
<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> AXIS Video Hosting System (AVHS) with One-Click Camera Connection AXIS Guardian with One-Click 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>Analytics</b>	<b>Included</b> AXIS Video Motion Detection, active tampering alarm <b>Supported</b> AXIS Guard Suite including AXIS Motion Guard, AXIS Fence Guard, and AXIS Loitering Guard Support for AXIS Camera Application Platform enabling installation of third-party applications, see <a href="http://axis.com/acap">axis.com/acap</a>
<b>Event triggers</b>	Analytics, video loss, edge storage events
<b>Event actions</b>	File upload: FTP, SFTP, HTTP, HTTPS network share and email Notification: email, HTTP, HTTPS and TCP External output activation Pre- and post-alarm video buffering PTZ preset Status LED
<b>Data streaming</b>	Event data
General	
<b>Casing</b>	IP30-rated, stand alone, metal casing, wall mount
<b>Sustainability</b>	PVC free
<b>Memory</b>	1024 MB RAM, 512 MB Flash Battery backed-up real-time clock
<b>Power</b>	8-28 V DC, max 4.7 W Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 1 Class 3
<b>Connectors</b>	Four analog composite video BNC input RJ45 10BASE-T/100BASE-T/1000 BASE-T PoE RS485/RS422, 2 pcs, 2 pos, full duplex, terminal block
<b>Storage</b>	Support for microSD/microSDHC/microSDXC card Support for SD card encryption Support for recording to network-attached storage (NAS) For SD card and NAS recommendations see <a href="http://axis.com">axis.com</a>
<b>Operating conditions</b>	0 °C to 50 °C (32 °F to 122 °F) Humidity 10-85% RH (non-condensing)
<b>Storage conditions</b>	-40 °C to 65 °C (-40 °F to 149 °F) Humidity 5-95% RH (non condensing)
<b>Approvals</b>	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 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>Dimensions</b>	187 x 37 mm (7.4 x 1.5 in)
<b>Weight</b>	650 g (1.4 lb)
<b>Included accessories</b>	Installation guide, Windows <sup>®</sup> decoder 1-user license, DC input plug, 2 pcs 2-pin RS485/RS422 plugs
<b>Optional accessories</b>	For more accessories, see <a href="http://axis.com">axis.com</a>
<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>Languages</b>	English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Traditional Chinese
<b>Warranty</b>	Axis 3-year warranty, see <a href="http://axis.com/warranty">axis.com/warranty</a>

a. This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. ([openssl.org](http://openssl.org)), and cryptographic software written by Eric Young ([eyay@cryptsoft.com](mailto:eyay@cryptsoft.com)).

Environmental responsibility:

[axis.com/environmental-responsibility](http://axis.com/environmental-responsibility)