AXIS Q7401 Video Encoder

Full-featured video surveillance with outstanding H.264 performance.

> - **Superb video quality**
> - **Multiple H.264 streams**
> - **Image setting adjustment**
> - **Intelligent video capabilities**
> - **Power over Ethernet**
> - **Audio support**
> - **Local storage**

AXIS Q7401 Video Encoder is a high performance, single channel solution that integrates an analog camera into an IP-based video surveillance system. With outstanding video processing capabilities, AXIS Q7401 delivers superb video quality and significant savings in bandwidth and storage.

AXIS Q7401 offers the highly efficient H.264 video compression, which drastically reduces bandwidth and storage requirements without compromising image quality. Motion JPEG is also supported for increased flexibility.

AXIS Q7401 can deliver multiple, individually configurable video streams simultaneously at full frame rate in all resolutions up to D1 (720x480 in NTSC, 720x576 in PAL). This means that several video streams can be configured with different compression formats, resolutions and frame rates for different needs.

The video encoder also enables users to adjust image settings such as contrast, brightness and saturation to improve images before encoding takes place.

AXIS Q7401 includes intelligent capabilities such as enhanced video motion detection, active tampering alarm and audio detection. The encoder's external inputs and outputs can be connected to devices such as sensors and relays, enabling the system to react to alarms and activate lights or open/close doors.

Support for Power over Ethernet (IEEE802.3af) enables the unit, as well as the analog camera that is connected to it, to receive power through the same cable as for data transmission. This makes for easy installation since no power outlet is needed.
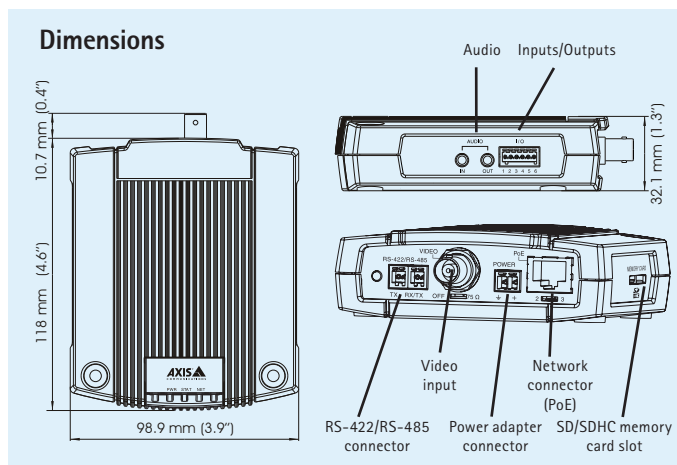
AXIS Q7401 also supports two-way audio and has an SD/SDHC memory card slot for local storage.

Technical specifications – AXIS Q7401 Video Encoder

Video encoder

Video compression	H.264 (MPEG-4 Part 10/AVC) Motion JPEG
Resolutions	176x120 to 720x576
Frame rate H.264	30/25 (NTSC/PAL) fps in all resolutions
Frame rate Motion JPEG	30/25 (NTSC/PAL) fps in all resolutions
Video streaming	Multi-stream H.264 and Motion JPEG: 3 simultaneous, individually configured streams in max. resolution at 30/25 fps; more streams if identical or limited in frame rate/resolution Controllable frame rate and bandwidth VBR/CBR H.264
Image settings	Compression, color, brightness, contrast Rotation: 90°, 180°, 270° Aspect ratio correction Mirroring of images Text and image overlay Privacy mask Enhanced deinterlace filter
Pan/Tilt/Zoom	Wide range of analog PTZ cameras supported (drivers available for download at www.axis.com) 100 presets, guard tour, PTZ control queue Supports Windows compatible joysticks

Audio

Audio streaming	Two way, full duplex
Audio compression	AAC-LC 8 kHz 32 kbit/s, 16 kHz 64 kbit/s G.711 PCM 8 kHz 64 kbit/s G.726 ADPCM 8 kHz 32 or 24 kbit/s
Audio input/ output	External microphone input or line input Line level output

Network

Security	Password protection, IP address filtering, HTTPS encryption, IEEE 802.1X network access control, digest authentication, user access log
Supported protocols	IPv4/v6, HTTP, HTTPS, QoS layer 3 DiffServ, FTP, SMTP, Bonjour, UPnP, SNMPv1/v2c/v3(MIB-II), DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP, ARP, SOCKS

System integration

Application Programming Interface	Open API for software integration, including VAPIX® from Axis Communications available at www.axis.com AXIS Camera Application Platform from Axis Communications; specifications available at www.axis.com Includes the ONVIF specification available at www.onvif.org Support for AXIS Video Hosting System (AVHS) with One-Click Camera connection
Intelligent video	Video motion detection, active tampering alarm, audio detection Support for AXIS Camera Application Platform enabling installation of additional applications
Alarm triggers	Intelligent video, external inputs, video loss, disk full
Alarm events	File upload via FTP, HTTP and email Notification via email, HTTP and TCP External output activation PTZ presets Local storage
Video buffer	64 MB pre- and post-alarm

General

Casing	Metal casing. Standalone or wall mount
Processor and memory	ARTPEC-3, 128 MB RAM, 128 MB Flash
Power	8-20 V DC, max. 7.2 W or Power over Ethernet IEEE 802.3af Class 2/3
Connectors	Analog composite video BNC input, NTSC/PAL auto-sensing RJ-45 10BaseT/100BaseTX PoE DC terminal block: power in 8-20 V DC, max. 7.2 W or power out 12 V DC, max. 5 W I/O terminal block for four configurable inputs/outputs 3.5 mm mic/line in, 3.5 mm line out RS-485/ RS-422
Local storage	SD/SDHC memory card slot (Card is not included)
Operating conditions	0 °C – 50 °C (32 °F – 122 °F) Humidity 20-80% RH (non-condensing)
Approvals	EN 55022 Class B, EN 61000-3-2, EN 61000-3-3, EN 55024, EN 61000-6-1, EN 61000-6-2, FCC Part 15 Subpart B Class B, ICES-003 Class B, VCCI Class B, C-tick AS/NZS CISPR 22, EN 60950-1 Power supply PS-T: EN 60950-1, CSA, C/US Power supply PS-K: EN 60950-1, UL, cUL
Weight	335 g (0.7 lb.)
Included accessories	Power supply, mounting and connector kits, Installation Guide, CD with installation and management tools, software and User's Manual, 1 Windows decoder user license

More information is available at www.axis.com

Dimensions

10.7 mm (0.4")
32.1 mm (1.3")
118 mm (4.6")
98.9 mm (3.9")

Audio   Inputs/Outputs

RS-422/RS-485 connector
Power adapter connector
Video input
Network connector (PoE)
SD/SDHC memory card slot
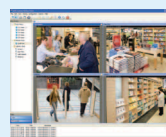
Optional accessories

AXIS T8310 Video Surveillance Control Board

Power over Ethernet midspan

AXIS T91A02 DIN Rail Clip 77mm

For information on AXIS Camera Station and video management software from Axis' Application Development Partners, see www.axis.com/products/video/software/

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