AXIS 241
Video Servers

Full-featured digital benefits for analog surveillance systems

AXIS 241 Video Servers from the market leader in network video, are designed to migrate your analog investments into high-performance IP solutions, ideal for surveillance and remote monitoring.

The AXIS 241 Video Servers accommodate one or four analog video streams depending on the model. System integration and network utilization are optimized with sophisticated functions such as built-in motion detection, SNMP and simultaneous Motion JPEG and MPEG-4 streams. Powerful event management tools include image upload, alarm notification and I/O control. Pan/tilt/zoom control is done over the serial port, enabling PTZ and dome camera handling over the network.

A complete set of security features, including multiple user access levels, HTTPS encryption and IP address filtering, ensure secure video handling and configuration.

AXIS 241QA/SA provide one audio stream in each direction, enabling users to not only see, but also listen in on an area and communicate requests or orders. In addition, they offer a de-interlace filter that improves image quality in the highest resolution (4CIF).

- High quality, de-interlaced video at 30/25 frames per second per channel
- Simultaneous Motion JPEG and MPEG-4 streams in resolutions up to 768x576
- Video motion detection and pre/post-alarm buffer
- Support for PTZ and dome cameras
- HTTPS encryption for network security
- Integrated two-way audio support

AXIS
COMMUNICATIONS
Make your network smarter

Specifications

Models	AXIS 241QA: Four video channels, two-way audio AXIS 241Q*: Four video channels AXIS 241 SA: One video channel, two-way audio AXIS 241S*: One video channel *Also available as Blade versions for Axis Video Rack Solution*	**Operating conditions**	5 - 50 °C (41 - 122 °F) Humidity 20 - 80% RH (non-condensing)
Video compression	Motion JPEG MPEG-4 Part 2 (ISO/IEC 14496-2), Profiles: ASP and SP	**Installation, management and maintenance**	Installation tool on CD and web-based configuration Configuration backup and restore Firmware upgrades over HTTP or FTP, firmware available at www.axis.com
Resolutions	Resolutions 4CIF, 2CIFExp, 2CIF, CIF, QCIF max 704x480 (NTSC) 768x576 (PAL) min 160x120 (NTSC) 176x144 (PAL)	**Video access from Web browser**	Camera live view, sequence tour capability for up to 20 PTZ presets or other Axis video sources, customizable HTML pages

Frame rate (NTSC/PAL)	Motion JPEG: Up to 30/25 fps at 4CIF (1 channel)
	                       30/25 fps at CIF (4 channel)
	MPEG-4: Up to 30/25 fps at 2CIF (1 channel)
	                       21/17 fps at 4CIF (1 channel)
	                       20/17 fps at CIF (4 channel)
		Minimum Web browsing requirements	Pentium III CPU 500 MHz or higher, or equivalent AMD
			128 MB RAM
			AGP graphic card, Direct Draw, 32 MB RAM
			Windows XP, 2000, NT4.0*, ME* or 98*, DirectX 9.0 or later
			Internet Explorer 5.x or later
			For other operating systems and browsers see www.axis.com/techsup
			
			Motion JPEG only

Video streaming	Simultaneous Motion JPEG and MPEG-4 Controllable frame rate and bandwidth Constant and variable bit rate (MPEG-4)	**System integration support**	Powerful API for software integration available at www.axis.com, including AXIS VAPIX API, AXIS Media Control SDK, event trigger data in video stream, embedded scripting and access to serial port peripherals over HTTP/TCP Watchdog secures continuous operation, can be monitored by other systems via event notification Embedded operating system: Linux 2.4
Image settings	Compression levels: 11 (Motion JPEG) /23 (MPEG-4) Rotation: 90°, 180°, 270° Aspect ratio correction Color: color, black & white Overlay capabilities: time, date, text or image De-interlace filter		
Audio (AXIS 241QA/SA)	G.711 PCM 64kbit/s, G.726 ADPCM 32 or 24 kbit/s, full duplex, half duplex, simplex or audio off	**Supported protocols**	HTTP, HTTPS, SSL/TLS*, TCP, SNMPv1/v2cv/v3 (MIB-II), RTSP, RTP, UDP, IGMP, RTCP, SMTP, FTP, DHCP, UPnP, ARP, DNS, DynDNS, SOCKS. More information on protocol usage available at www.axis.com *This product includes software developed by the Open SSL Project for use in the Open SSL Toolkit.*
Security	Multiple user access levels with password protection, IP address filtering and HTTPS encryption		
Alarm and event management	Events triggered by built-in motion detection, external inputs or according to a schedule Image upload over FTP, email and HTTP Notification over TCP, email, HTTP and external outputs Pre- and post alarm buffer of 9 MB per channel (approx. 4 min of CIF resolution video at 4 frames per second)	**Applications (not included)**	AXIS Camera Station - Surveillance application for viewing, recording and archiving up to 25 cameras AXIS Camera Management – Video installation and management tool AXIS Camera Explorer – Basic software for viewing and manual recording See www.axis.com/partner/adp_partners.htm for more software applications via partners
Pan/Tilt/Zoom	A wide range of analog PTZ dome cameras is supported, free drivers available at www.axis.com 20 presets/camera, Guard tour, PTZ control queue		
Connectors	Analog composite video, NTSC/PAL autosensing inputs: AXIS 241Q/QA: 4 BNC inputs AXIS 241S/SA: 1 BNC input and 1 BNC output: loopthrough or Y/C video input Ethernet 10BaseT/100BaseTX, RJ-45 Terminal block: 4 alarm inputs, 4 alarm outputs, RS-485/422 half duplex port, alternative power connection D-Sub for RS-232 port AXIS 241QA/SA: 3.5 mm jack for Mic in (max 54 mVpp) or Line in (max 8.0 Vpp, mono), 3.5 mm jack for Line out (max 2.6 Vpp, mono) to active speaker	**Included Accessories**	Power supply 9 V DC, mounting brackets, connector kit, Installation Guide, CD with installation tool, software and User's Manual. MPEG-4 decoder (Windows), MPEG-4 licences (1 encoder, 1 decoder)
		Accessories (not included)	Cable adapter Y/C to BNC (AXIS 241SA/AXIS 241S) AXIS 292 Network Video Decoder AXIS MPEG-4 Decoder 10 user license pack Power over Ethernet splitters and midspans IEEE 802.11g wireless bridge and access point
Casing	Metal casing. Standalone, stackable or with brackets for wall or cage mount		
Processors and memory	CPU: ETRAX 100LX 32bit Video processing and compression: ARTPEC-2 RAM: 64MB (241Q/QA), 32 MB (241S/SA) Flash: 8 MB Battery backed up by real-time clock	**Approvals**	EMC: EN55024: 1998+A1, EN55022:1998 ClassB EN61000-3-2:2000, EN61000-3-3:1995+A1. FCC Part 15 Subpart B Class B, VCCI: 2003 Class B ITE, C-tick AS/NZS 3548 and ICES-003 Class B by compliance with EN 550022:1998 Class B Safety: UL and CSA (Power supply), EN60950
Power	7 - 20 V DC, max 8 W	**Dimensions (HxWxD) and weight**	42 x 140 x 155 mm (1.7" x 5.5" x 6.1") 540 g (1.2 lbs) excl. power supply

AXIS 241SA

AXIS 241QA

AXIS 241S

AXIS 241Q

AXIS 241Q/S are also available as blade versions for AXIS Rack Solution. 12 blade slots allow for centralized video server management.

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