



AXIS Video Servers

The Plug-and-Watch Remote Monitoring and Surveillance Solution for TCP/IP Networks

Video Servers

Delivering extremely high quality Motion-JPEG images with a frame rate of up to 30 frames/second, Axis' video servers represent a performance technology breakthrough that revolutionizes CCTV and video surveillance systems. They provide a comprehensive single box solution for video transmission over any data network including local and wide area networks and even over the Internet. Connecting directly to 10/100 Mbps Ethernet networks, they enable any computer to view live video images from hundreds of video servers - without the hassles normally associated with digital video transmission.

Ease of Use

AXIS video servers are installed in an instant: users simply connect their video sources, attach the video server to a network, assign it a network address – and it is networked. The only viewing software needed is the freely available Netscape Navigator or Microsoft Internet Explorer. Axis' true Web-based administration tools include several user-sensitive guides, allowing users to quickly tailor-design their application: quad image, guard tour, pre/post alarm storage and Pan/Tilt/Zoom control are but a few of the built-in features available.

Wide Range of Applications

The application possibilities for Axis' video servers are limitless: remote image monitoring and archiving, security surveillance, traffic monitoring, process control, and much more; ideal for the shop, bank, factory, railway, gas station, car park, or even the home.

Cost-effective

Users can enhance their existing CCTV systems with an AXIS 2400 or AXIS 2401 video server and instantly have a state-of-the-art remote monitoring system – with no expensive software, dedicated monitor, or expensive coax cabling required. All that is needed is a standard PC with network access.

Open Standards

Based on worldwide standards, the AXIS video servers seamlessly connect to a whole range of different Ethernet devices, such as Wireless Ethernet and Ethernet to ISDN, PSTN, xDSL or cable modem routers. This open standard approach to design gives system designers and installers the freedom to choose optimal transmission media for any application.

Speed and Quality

AXIS video servers are based on the industry's first dedicated digital video surveillance compression chip, the ARTPEC-1, and the ETRAX 100 - a processor optimized for Ethernet networks. Both chipset designs were developed by Axis. The design-synergy yielded by this advanced chipset technology provides a cost-effective solution that delivers up to 30 high-quality images per second over 10/100 Mbps networks.



The AXIS 2400 video server can monitor up to four video sources (NTSC/PAL).



The AXIS 2401 video server comes in two versions: the AXIS 2401 PAL and AXIS 2401 NTSC. They both support a single video source and are equipped with an analog video loop-through connector.

The comprehensive single box solution for realtime digital video transmission.

Video Servers



Technical Specifications

SYSTEM REQUIREMENTS

Axis' video servers use the standard Internet TCP/IP suite of protocols and can be used with most operating systems: Windows 95, 98 and NT as well as Linux, UNIX, Mac and several others. The only software needed is Internet Explorer 4.x with Axis' camera ActiveX control or Netscape Navigator 4.x.

INSTALLATION

Physical network connection using RJ45 twisted pair cable. Installs directly to NTSC or PAL video cameras using BNC connectors. Use as a standalone system or as an add-on to existing CCTV systems.

MANAGEMENT

Remote configuration and status using Web-based tools.

COMPRESSION

Motion-JPEG, as well as single snapshot JPEG images. User controlled compression level.

VIDEO FEATURES

Time stamp and text overlay. Color control (B/W or color).

VIDEO INPUTS

AXIS 2400 – 4 BNC composite video inputs with 75Ω/Hi Z termination. Autosensing for NTSC and PAL.

AXIS 2401 PAL – single BNC composite PAL video input with one BNC video loop-through port.

AXIS 2401 NTSC – single BNC composite NTSC video input with one BNC video loop-through port.

NETWORKING

10baseT Ethernet or 100baseTX Fast Ethernet, TCP/IP, HTTP, FTP, SMTP, NTP, ARP, BOOTP.

GENERAL I/O

A single Terminal Block connector providing four opto-isolated alarm inputs and a single output relay. Event-triggered actions for remote image storage via File Transfer Protocol (FTP) or E-mail (SMTP), pre/post alarm image storage.

PRE/POST ALARM BUFFER

Up to 8 MByte memory available for pre/post alarm image storage.

SERIAL CONNECTORS

9 pin D-SUB RS-232 max 230 Kbps.

9 pin D-SUB RS-232 or RS-485/422 max 38.4 Kbps, half duplex.

PAN/TILT/ZOOM

PTZ support for remote camera control. Currently supported units and protocols include: Pelco-D, Videmach (UOCP), Ernitech ICU 51PA, Sony EVI-G20/21, EVI-D30/31, Canon VC-C3 and Diamond SmartScan III. Future support for other PTZ units will be added.

SECURITY

User level password protection.

OPERATING CONDITIONS

Temp: 40-125°F (5-50°C).

Humidity: 20-80% RHG.

APPROVALS

EMC: FCC Class A, VCCI.

CE EN 55022/1994, EN55082-1/1992.

Safety: EN 60950, UL, CSA.

METRICS

Height: 1.7" (4.2 cm).

Width: 5.7" (14.5 cm).

Length: 8.7" (22.0 cm).

Weight: 1.7 lb. (0.8 kg), excluding power supply.

HARDWARE

- ARTPEC-1 compression chip.
- ETRAX 100, 32 bit RISC, 100 MIPS CPU.
- 16 Mbyte RAM.
- 2 Mbytes FLASH PROM.

POWER

3 alternative power sources:

- External power supply 12V AC, 9.6 VA (PS-D, included).
- 9-20V AC, min 10VA.
- 6-30V DC, min 7W.

COMPLEMENTARY SOFTWARE

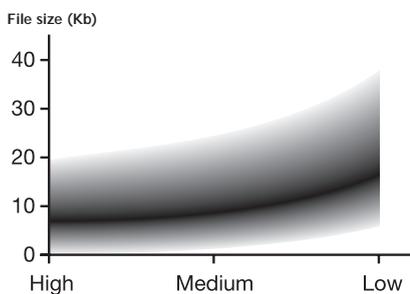
AXIS IP Installer - for quick installation of multiple units.

AXIS ThinWizard - for remote upgrade of multiple Axis units.

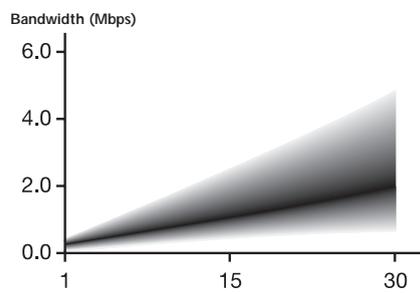
ActiveX components available for third party system integration and development.

THINSERVER™ TECHNOLOGY

Incorporating Axis' ThinServer Technology, the AXIS 2400/2401 comprises "thin" versions of the most popular network operating systems, Web management tools, and Axis' own ETRAX 32-bit RISC processor — based on an open architecture, streamlined and optimized for device connectivity independent of any file server.



Compression: NTSC Transmission with 352 x 240 resolution



Frame rate (fps): NTSC Transmission, medium compression, 352x240 resolution

PERFORMANCE

N T S C			P A L		
Resolution	File size (Kb)	Max fps*	Resolution	File size (Kb)	Max fps*
704 x 480**	7 - 150	10	704 x 576**	8.5 - 180	8
352 x 240	1.4 - 40	30	352 x 288	1.7 - 50	25
176 x 112	0.3 - 10	30	176 x 144	0.4 - 12	25
Quad (4 x 352 x 240)***	7 - 150	5	Quad (4 x 352 x 288)***	8.5 - 180	5

* Maximum performance given single user and only one video source in use.

** Interlaced image.

*** Quad image, images from all four video sources of an AXIS 2400 integrated into one single image. (AXIS 2400 only).

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