AXIS 2400 Video Server

(**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, the AXIS 2400 video server represents a performance technology breakthrough that revolutionizes CCTV and video surveillance systems. It provides 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, it enables any computer to view live video images from hundreds of video servers - without the hassles normally associated with digital video transmission.

Ease of Use

The AXIS 2400 video server is 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. They can choose from several application pre-configurations: quad, 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 the AXIS 2400 video server are limitless: remote monitoring, security systems, alarms verification, traffic surveillance, railway monitoring, airports, banks, manufacturing plants, process monitoring, remote image archiving, remote administration, shops, gas stations, car parks, and much more.

Cost-effective

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

Open Standards

Based on worldwide standards, the AXIS 2400 video server seamlessly connects 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 the freedom to choose optimal transmission media for the specific application.

Speed and Quality

The AXIS 2400 video server is based on the industry's first dedicated digital video surveillance compression chip, ARTPEC-1, and the ETRAX 100, a processor optimized for Ethernet networks - both 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 comprehensive single box solution for realtime digital video transmission.

Video Servers

Technical Specifications

SYSTEM REQUIREMENTS

The AXIS 2400 uses 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

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

NETWORKING

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

GENERAL I/O

4 opto-isolated alarm inputs and 1 output relay (max 24V, 0.1 A) supplied on terminal block connectors. Event-trigged 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 (Digital Coaxitron), Videmech (UOCP), Ernitech ICU 51PA, Sony EVI-G20/21, EVI-D30/31 and Canon VC-C3. 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, EN50082-1/1992.

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.
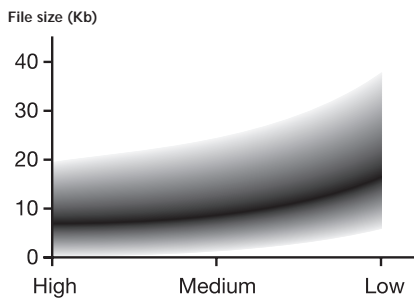- 6-30V DC, min 7W.

COMPLEMENTARY SOFTWARE

AXIS IP Installer - for quick installation of multiple units.
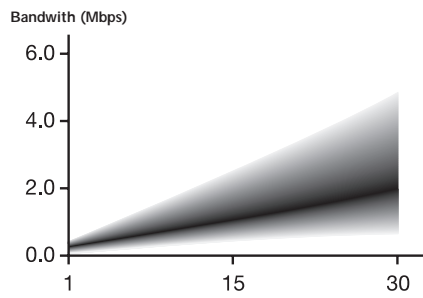
AXIS ThinWizard - remote upgrade of multiple Axis units.

AXIS Camera Control - Axis' ActiveX component software required for Microsoft Internet Explorer.

THINSERVER™ TECHNOLOGY

Incorporating Axis´ ThinServer Technology, the AXIS 2400 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, and streamlined and optimized for device connectivity independent of any file server.

File size (Kb)

Compression: NTSC Transmission with 352 x 240 resolution

Bandwith (Mbps)

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 integrated into one single image.

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