AXIS 2420
Network Camera
Looking Forward...

With motion detection, applications for event-triggered transmission and remote storage of images, the AXIS 2420 is a professional surveillance camera for the future-proof security system.

The AXIS 2420 connects directly to local networks or the Internet, transmitting high-quality streaming video at 30(NTSC) or 25(PAL) images per second.

Cost-effective, easy to install and use, a remote surveillance system can be up and running in minutes. The system can be as open or closed as you like it.

For a progressive move to a digital, network-based surveillance system, the AXIS 2420 can complement analog CCD cameras in an existing CCTV-system.

- ■ "Plug and Watch"—over any TCP/IP network
- ■ Built in Motion Detection
- ■ Built in Web Server
- ■ Support for Pan, Tilt, Zoom units
- ■ Video stream — 30/25 frames/second

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Technical Specification - AXIS 2420 Network Camera

Product Features

- Built-in Web Server and network interface. No PC needed for operation.
- Up to 30 (NTSC)/25 (PAL) frames/sec.
- Works simultaneously with existing analog CCTV-cameras providing the possibility to use either the analog or the digital signal or both.
- Linux-based operating system
- Powerful video Motion Detection with multiple sensitivity windows.
- Accepts Dial-in and Dial-out access via external modem (modem not included).
- Event triggered remote image storage via e-mail and FTP.
- High speed hardware-based image compression, generating high quality JPEG images.
- 100 MIPS RISC processor for high performance.
- Secure password/username protection restricts access to single users, workgroups, or the whole Internet community.
- Variable bandwidth control prevents data saturation on the network. 30 (25) frames/sec. typically requires about 1.5 Mbit/sec.
- Flash memory for simple upgrades and storage of user-designed html files.

System Requirements

- Internet Explorer 4.x, 5.x or Netscape Navigator 4.x. Null modem installation requires Windows PC with Dial-up networking.

Operating Environment

- Requires proper environmental housing for outdoor use, 40–122° F (5–50° C). 20–80% RHG, non-condensing.
- A DC-Iris lens must be used and correctly configured for use in environments where strong light conditions prevail. Avoid aiming the camera directly towards extremely bright objects such as the sun, as this may damage the CCD image sensor.

Image

- JPEG still images and Motion-JPEG video.
- Image frame rate: up to 30 (25) frames/sec. at 352x240 (352x288) resolution.
- Up to 12 (10) frames/sec. at 704x480 (704x576) resolution.
- 5 levels of compression are available. The file size of a JPEG compressed image depends on the actual content of the image. Images containing a lot of detail will generate larger files. Image quality is controlled through the level of compression. High compression yields smaller files at the expense of image quality, while low compression results in larger files, but maintains image quality. The table below shows average file sizes, derived from real life tests.

Resolution	Compression level		
	Low	Medium	High
NTSC, 352x240	10 kb	7 kb	3 kb
NTSC, 704x480	43 kb	28 kb	13 kb
PAL, 352x288	12 kb	8 kb	4 kb
PAL, 704x576	52 kb	34 kb	20 kb

Technical Specification

- Digital, 24-bit color.
- 1/3" Sony EXview HAD interlaced CCD.
- HxV: 768x494, (752x582). 480 TV lines Horizontal Resolution
- Backlight Compensation.
- Automatic Gain Control (AGC).
- Automatic and fixed White Balance.
- Electronic shutter: 1/60s (1/50s)–1/10000s.
- Illumination: 1 to 200 000 Lux with F1.0 DC-Iris lens. Excellent in low light situations
- 16 Mbyte RAM (up to 4 MB available for pre/post alarm image storage).
- 4 Mbyte FLASH (up to 2 MB available for user-designed html files and scripts).
- ETRAX 100 LX, 32 bit RISC, 100 MIPS CPU.
- 1.0V (p-p) 75Ω, sync negative.
- Signal-to-Noise Ratio: 50dB (AGC off)
- Built-in support for DC-iris lenses.
- Standard CS mount lens fitting (lens not included).

Connections

- RJ45 twisted pair direct network connection for 100baseTX Fast and 10baseT Ethernet.
- BNC connector for Analog Video Output (NTSC or PAL).
- Input/Output connector to trigger the camera and control external devices;
- RS-232 port for modem connection or control of RS-232 devices (modem not included).
- RS-485 port for control of RS-485 devices.
- DC-Iris lens connector.
- External power supply connector 9–15V AC, min 10VA or 9–15V DC, min 8W.

Supported Protocols

- TCP/IP, HTTP, FTP, SMTP, ARP, BOOTP, PPP, CHAP, PAP.

Metrics

- Height: 2.24" (57mm)
- Width: 3.39" (86mm)
- Length: 5.43" (138mm)

Approvals

- EMC:
  - This equipment complies with the requirements in Part 15 subpart B of FCC Rules for Class A computing device
  - CE EN 55022 class B, EN55024
  - FCC Class A
- Safety:
  - EN 60950, UL, CSA

Accessories Included

- Null modem cable for modem installation.
- Power supply: 12V AC, 9.6 VA.
- I/O connectors.
- DC Iris lens connector.

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