AXIS 2420 Network Camera –IR Sensitive

See without being seen

See in the dark what the human eye can't.
See without being seen!

Offering access to high-quality video, even in low-light conditions, the *AXIS 2420 IR Sensitive* delivers streaming live video directly into standard Web browsers at up to 30 frames/second. It plugs directly to local IP networks.

Combining remote network video storage with built-in motion detection for event-triggered transmission, it's the world's first infrared-sensitive network camera. Used in combinition with infrared lighting, the *AXIS 2420 Network Camera - IR Sensitive* is ideal for discrete and covert, low-light, video applications.

- For low-light conditions
- "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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General

- Built-in Web Server and network interface. No PC needed for operation
- Works simultaneously with existing analog CCTV-cameras providing the possibility to use either the analog or the digital signal or both
- Powerful video Motion Detection with multiple sensitivity windows
- Linux-based operating system

Installation

- Quick and easy installation - connect to your network, assign an IP address or use the included null-modem cable for modem installation

Camera

Image sensor
- 1/3 inch Sony ExView HAD interlaced CCD
- HxV: 768x495 (NTSC), 752x582 (PAL)
- Resolution (pixels): 704x480 (NTSC) 704x576 (PAL)
- Horizontal resolution: 480 TV lines

Exposure
- Backlight Compensation
- Automatic Gain Control (AGC)
- Electronic shutter:

  1/60 - 1/10.000 sec. (NSC)

  1/50 - 1/10.000 sec. (PAL)

Sensitivity
- Illumination range: 0,5 to 200 000 Lux with F1.0 DC-Iris lens. Excellent in low light situations

Lens
- Built-in support for DC-iris lenses
- Standard CS mount lens fitting
- Two versions of the AXIS 2420 IR Sensitive are available, one in the DC-Iris vari-focal 2,8-12mm (zoom) lens included and one without lens

Image

- JPEG still images and Motion-JPEG video
- High-speed hardware-based image compression, generating high quality JPEG images
- Image frame rate:
  Up to 30 (25) frames/sec. at 352x240 (352x288) resolution. NTSC (PAL)
  Up to 12 (10) frames/sec. at 704x480 (704x576) resolution. NTSC (PAL)
- 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.

Compression level	Resolution	
	704x575	352x288
Very high	13	4
High	15	5
Medium	23	9
Low	35	13
Lowest	130-220	41-59

- Variable bandwidth control prevents data saturation on the network. 30(25) frames/sec. Typically requires about 1,5 Mbit/sec

General I/O

- Acceps Dial-in and Dial-out access via external modem (modem not included)
- Event triggered remote image storage via e-mail and FTP

Video Output

- 1.0V (p-p) 75 ohm, sync negative

Signal-to-Noise Ratio

- 50dB (AGC off)

System Requirements

- Comparatible with operating systems such as Windows 98, Windows 2000, Windows XP, Windows NT, Windows ME, Linux, Mac OS and Mac OS X
- Internet Explorer 4.x, 5.x or Netscape Navigator 4.x
- Non-network, i.e. modem installation requires Windows PC with Dial-up networking

Supported Protocols

- TCP/IP, HTTP, FTP, SMTP, ARP, BOOTP, PPP, CHAP, PAP, DHCP and more

Security

- Secure password/username protection restricts access to single users, workgroups, or open to the whole Internet community

Hardware

- ETRAX 100 LX processor for high-performance, 32 bit RISC, 100 MIPS CPU
- 16 Mbyte RAM
- 4 Mbyte FLASH PROM
- Hidden push-key for focus and factory defaults

Firmware Updates

- Flash memory for simple upgrades and storage of user designed html files

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

Power Supply

- External power supply connector 9-15V AC, min 10VA or 9-15V DC, min 8W

Operating Environment

- Requires proper environmental housing for outdoor use
- Operating temperature: 5–50 ºC (40–122 ºF)
- Humidity: 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

Dimensions / Weight

- Height: 2.24" (57 mm)
- Width: 3.39" (86 mm)
- Length: 5.43" (138 mm)
- Weight: 1.19lb" (0.54 kg) excl. power supply, lens and tripod

Approvals

- EMC: FCC Class A, Part 15 subpart B
- CE: EN 55022 Class B, EN55024
- Safety: EN 60950, UL, CSA

Accessories Included

- DC Iris variable focal length lens (2,8-12mm) Rugged metal tripod (AXIS 2420 w/LENS only)
- DC Iris lens connector
- Null modem cable for modem installation
- Power supply: 12V AC, 9.6 VA
- I/O connectors

For more information visit our website: www.axis.com

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