



# AXIS 2420 Network Camera -IR Sensitive

*See without being seen*

Use the AXIS 2420 Network Camera - IR Sensitive in combination with infrared lighting – and see in the dark what the human eye can't. See without being seen!

Offering access to live video in low-light conditions, the AXIS 2420 IR Sensitive delivers streaming black and white 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. Ideal for discreet 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

**AXIS**<sup>®</sup>  
COMMUNICATIONS

# Technical Specification - AXIS 2420 IR Sensitive



## General

- IR Sensitive camera for low light conditions
- Built-in Web Server and network interface. No PC needed for operation
- Analog output allows direct connection to existing analog CCTV systems. The analog and digital signals can be used independently or simultaneously
- Powerful video Motion Detection with multiple detection windows
- Linux-based operating system

## System Requirements

- Windows 98, Windows 2000, Windows XP, Windows NT, Windows ME, Linux, Mac OS or 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

## Installation

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

## Management

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

## Security

- Secure password/user name protection. Restrict access to single users or workgroups, or open up to the whole Internet community

## Supported Protocols

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

## Camera

### Image sensor

- 1/3 inch Sony ExView HAD interlaced B&W CCD
- HxV: 768x494 (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. (NTSC)

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

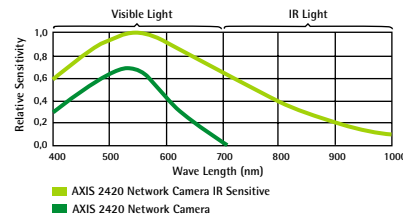
- Built-in support for DC-iris lenses
- Standard CS mount lens fitting
- The AXIS 2420 IR Sensitive is available with or without DC-Iris vari-focal 2,8-12mm (zoom) lens

## Video Output

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

## Signal-to-Noise Ratio

- 50dB (AGC off)



## Image

- Black and white 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 by 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 for B/W images, derived from real life tests.

Resolution	Compression level		
	Low	Medium	High
PAL, 352x288	9 Kb	6 Kb	3 Kb
PAL, 704x576	28 Kb	19 Kb	12 Kb
NTSC, 352x240	7 Kb	6 Kb	3 Kb
NTSC, 704x480	24 Kb	15 Kb	9 Kb

- Variable bandwidth control prevents data saturation on the network. 30/25 (NTSC/PAL) frames/second typically requires about 1,5 Mbps

## Hardware

- ETRAX 100 LX processor for high-performance, 32 bit RISC, 100 MIPS CPU
- 16 Mbyte RAM
- 4 Mbyte FLASH PROM

## Connections

- RJ45 twisted pair direct network connection for 100baseTX Fast and 10baseT Ethernet
- BNC connector for Analog Video Output (EIA or CCIR B&W)
- 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
- Accepts Dial-in and Dial-out access via external modem (modem not included)
- Event triggered remote image storage via e-mail and FTP
- 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°C (40-122°F)
- 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 and Weight

- Height: 1.1" (27 mm)
- Width: 4.4" (112 mm)
- Length: 5.2" (133 mm)
- Weight: 1.52lb (0.69 kg) excl. power supply (0.110 kg ~ 0.24 lbs)

## Approvals - EMC

- EMC: FCC Class A, part 15 subpart B
- CE: EN 55022 Class B, EN 55024
- Safety: EN 60950, UL, CSA

## Included Accessories

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



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