



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 CCTV cameras in an existing CCTV-system.



- Enables simultaneous use in analog and digital systems
- Built in motion detection
- Up to 30 frames per second
- Built-in Web Server and network connection
- View live images from any network-connected PC
- Support for Pan/Tilt/Zoom devices
- Audio functionality available in combination with the AXIS 2191 Audio Module

AXIS[®]
COMMUNICATIONS



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

- Digital, 24-bit color.

Image sensor

- 1/3 inch Sony super 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).
- Automatic and fixed White Balance.
- Electronic shutter:
1/60 - 1/10.000 sec. (NTSC)
1/50 - 1/10.000 sec. (PAL).

Sensitivity

- Illumination range: 1 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 are available, one with 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,

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

derived from real life tests.

- Variable bandwidth control prevents data saturation on the network. 30(25) frames/sec. typically requires about 1.5 Mbit/sec.

General I/O

- Accepts 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

- Compatible 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, 6.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 °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 / Weight

- Height: 2.24" (5,7 cm)
- Width: 3.39" (8,6 cm)
- Length: 5.43" (13,8 cm)
- 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