

# Product Guide

*Network Video Solutions*



# Welcome to the Axis network video product guide

*This guide has been developed to help you navigate our broad range of network video products. If you are looking for comprehensive product specifications, or information about our solutions and customer cases, please visit our website [www.axis.com](http://www.axis.com) or contact your local Axis office.*

## World leadership

Axis is the global market leader in network video products and the leading independent provider of print servers. We have been developing solutions that add value to your network since 1984 and specifically, network video solutions since 1996. With more than 700,000 professional network video products and over 3 million networking products installed, Axis has the experience to meet your company's needs. It is this experience, combined with our cutting-edge technology that makes Axis the partner of choice when it comes to network video.



## Product portfolio

Axis specializes in professional network video solutions for security, video surveillance, remote monitoring and broadcasting. We also provide solutions for network printing and document handling.

Our range of products includes network cameras, video servers, network print servers, and network document servers.

## Technology leadership

The core of the Axis product offering is its in-house developed IP-based technology platform, which allows the company to quickly and cost-effectively adapt its market offering to new applications and product areas. The technology enables easy installation and provides compact and powerful solutions that enable equipment to be securely and rapidly connected to virtually any wired or wireless network.

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## Network Video

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# Network Cameras

*Watch anything, from anywhere at anytime*

Axis network cameras provide an easy way to capture and distribute high quality video over any kind of IP network or the Internet. Images can be viewed using a standard web browser and stored on any hard disk. With built-in web server, Axis network cameras operate stand-alone and can be placed wherever there is an IP network connection.

They enable you to remotely view and record live video from anywhere in the world.

Whether you need an IP-Surveillance solution to secure the safety of people and places, remotely monitor property and facilities, or broadcast events on the web with live images and sound, Axis can meet your needs.

## COMMON FEATURES

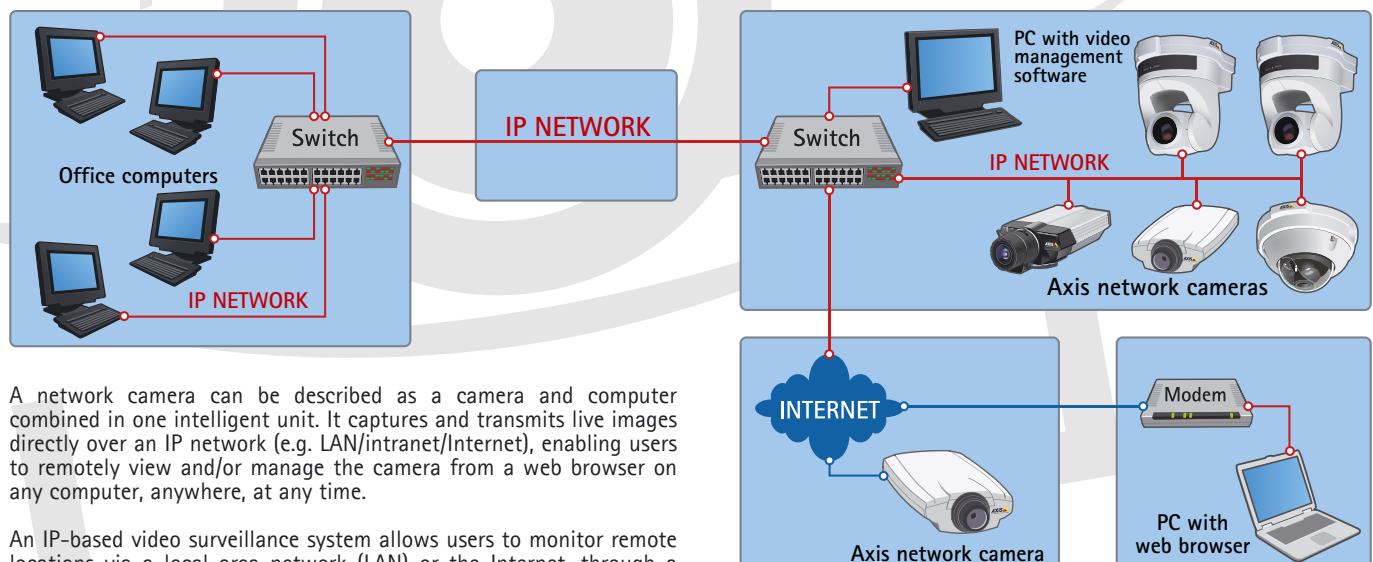


- Axis Superior Image Quality
- Direct connection to wired or wireless IP networks
- Products with simultaneous MPEG-4 and Motion JPEG
- Independent system with embedded web server – no need for additional hardware or software to capture and transfer images
- Powerful event and alarm management capabilities including video motion detection, pre- and post-alarm image buffering
- Remote configuration and status using Axis management tools or standard web browser
- Comprehensive set of security features
- Multiple resolutions and compression levels
- Powerful API (AXIS VAPIX™ API) for software integration

## BENEFITS

- Remote access to live images, any time, anywhere, from any authorized computer
- Digital quality images for perfect viewing
- Many products based on progressive scan, giving less motion blur and clearer images than on interlaced video or DVRs
- Flexibility to place the network camera wherever a network connection is available
- Remote and secure accessibility for efficient, centralized management and reduced maintenance costs
- Scalable and future-proof: the video system can be expanded and grown as far as the network can
- Backed by the industry's largest base of video management software with Axis Application Development Partners
- Ease of integration: easy addition of functionality, system expansion and integration with other systems, such as access control or point of sales

## SYSTEM OVERVIEW



A network camera can be described as a camera and computer combined in one intelligent unit. It captures and transmits live images directly over an IP network (e.g. LAN/intranet/Internet), enabling users to remotely view and/or manage the camera from a web browser on any computer, anywhere, at any time.

An IP-based video surveillance system allows users to monitor remote locations via a local area network (LAN) or the Internet, through a dedicated surveillance application. Camera recordings can be stored on a storage media anywhere on the network.

## FIXED CAMERAS INDOOR



### AXIS 206

The world's smallest network camera, ideal for remote monitoring.

- Motion JPEG
- Up to 30 frames per second in resolutions ranging up to VGA 640x480 pixels
- Easy installation using the free AXIS Internet Dynamic DNS Service or the Windows-based AXIS IP Utility software
- Multilingual product interface - including English, French, German, Italian, Spanish, Chinese, Korean and Japanese



### AXIS 207

The world's smallest, true bandwidth-efficient MPEG-4 network camera.

- Simultaneous MPEG-4 and Motion JPEG
- MPEG-4 implementation with motion estimation for optimized bandwidth efficiency
- Built-in microphone for synchronized audio
- Up to 30 frames per second in resolutions ranging up to VGA 640x480 pixels
- Easy installation using the free AXIS Internet Dynamic DNS Service or the Windows-based AXIS IP Utility software
- One alarm input and one output for connecting external devices such as door sensors and relays to activate light or close doors



### AXIS 207W Wireless

The world's smallest wireless MPEG-4 network camera, with built-in IEEE 802.11g wireless interface giving you the freedom to place the camera where it's needed.

- Wireless IEEE802.11g and Ethernet for flexible installation
- Support for WPA (Wi-Fi Protected Access) and WPA2 protocols for secured wireless transmission
- All other features the same as the AXIS 207



### AXIS 207MW Megapixel Wireless

The world's smallest wireless MPEG-4 network camera with megapixel resolution and built-in IEEE 802.11g wireless connection.

- Up to 12 frames per second in 1.3 megapixel resolution (megapixel resolution up to 1280x1024)
- All other features the same as the AXIS 207W

### AXIS 210

Superior video quality for professional indoor applications.

- Built-in video motion detection and advanced event management
- Simultaneous Motion JPEG and MPEG-4
- Up to 30 frames per second in all resolutions ranging up to 640x480
- One alarm input and one output for connecting external devices such as door sensors and relays to activate light or close doors



### AXIS 210A

Superior video quality with audio and Power over Ethernet for professional indoor applications.

- Power over Ethernet (IEEE 802.3af)
- Built-in or external microphone, and audio output for external speakers
- All other features the same as the AXIS 210



### AXIS 216FD

Professional, discreet fixed dome camera for indoor video and audio surveillance

- Discreet and compact design, effectively protecting against tampering
- Varifocal lens 2.8-10 mm F1.3 with DC-iris
- Power over Ethernet (IEEE 802.3af)
- Simultaneous Motion JPEG and MPEG-4
- Up to 30 frames per second in VGA 640x480 resolution
- Two-way audio support including built-in microphone and audio detection alarm
- Multi-window motion detection with alarm image buffering
- One alarm input and one output for connecting external devices such as door sensors and relays to activate light or close doors





## FIXED CAMERAS INDOOR/OUTDOOR



### AXIS 211\*

Professional network camera with superior video quality for indoor and outdoor surveillance and remote monitoring applications.

- › Power over Ethernet (IEEE 802.3af)
- › Varifocal DC-Iris lens
- › Built-in video motion detection and advanced event management
- › Simultaneous Motion JPEG and MPEG-4
- › Up to 30 frames per second in all resolutions ranging up to 640x480
- › One alarm input and one output for connecting external devices such as door sensors and relays to activate light or close doors



### AXIS 211A\*

Professional network camera with superior video quality and two-way audio for indoor and outdoor surveillance and remote monitoring applications.

- › Built-in or external microphone, and audio output for external speakers
- › Same features as AXIS 211 above

### AXIS 221\*

High performance network camera for demanding security installations under all lighting conditions.

- › Automatic day and night functionality with removable IR filter
- › High quality Pentax varifocal DC-iris lens for optimal image quality in outdoor light conditions
- › Up to 45 frames per second in all resolutions ranging up to 640x480. Up to 60 frames per second in 480x360 or lower
- › Power over Ethernet (IEEE 802.3af)
- › Multi-window motion detection with alarm image buffering
- › Simultaneous Motion JPEG and MPEG-4
- › Solid mechanical design with metal casing
- › Two alarm inputs and one output for connecting external devices such as door sensors and relays to activate light or close doors



### AXIS 225FD

Fixed dome network camera for professional video surveillance in tough conditions

- › Vandal-resistant design and tamper-proof mounting
- › Outdoor-proof, IP66 rated design with built-in heater and fan, operating in temperatures down to -20° C (-4° F)
- › Varifocal lens 2.8-5.8 mm F1.4 with DC-iris
- › Automatic day and night functionality with removable IR filter
- › Power over Ethernet (IEEE 802.3af)
- › Simultaneous Motion JPEG and MPEG-4
- › Up to 30 frames per second in VGA 640x480 resolution
- › Multi-window motion detection with alarm image buffering
- › Two alarm inputs and one output for connecting external devices such as door sensors and relays to activate light and close doors



*\*Outdoor use of this network camera requires protective housing.*

## PAN/TILT/ZOOM CAMERAS INDOOR/OUTDOOR



### AXIS 213 PTZ\*

Professional network camera with remote pan/tilt/zoom control.

- 26x optical zoom lens with auto focus
- IR mode with built-in IR lighting
- Provides useful video under all light conditions, indoor as well as outdoors
- Simultaneous Motion JPEG and MPEG-4
- Resolutions up to 4CIF at up to 25 fps (PAL) or 30 fps (NTSC)
- IP address filtering and multiple access levels for network security
- Advanced event management including pre- and post image buffers
- Optional AXIS 213CM Connection Module for two way audio + alarm inputs and outputs



### AXIS 214 PTZ\*

Professional day and night camera with remote pan/tilt/zoom and audio.

- 18x optical zoom lens with auto focus
- Automatic day and night function
- Integrated two-way audio support
- Simultaneous Motion JPEG and MPEG-4
- Resolutions up to 4CIF at up to 25 fps (PAL) or 30 fps (NTSC)
- Built-in video motion detection
- Advanced event management including pre- and post image buffers
- One alarm input and one output for connecting external devices such as door sensors and relays to activate light or close doors



\*Outdoor use of these network cameras requires weatherproof housing

Axis offers convenient and tailor-made solutions for mounting Axis network cameras outdoors and in harsh, humid and dusty environments.

For a full list of available outdoor housings, please contact your local Axis office or visit: [www.axis.com/products/cam\\_housing](http://www.axis.com/products/cam_housing)

### AXIS 231D+\*

Network dome camera with remote pan, tilt and zoom control for demanding surveillance applications.

- 18x optical zoom lens with auto focus and 12x digital zoom
- Remote pan/tilt/zoom control from any PC locally on the LAN or over the Internet
- Simultaneous Motion JPEG and MPEG-4
- Resolutions up to 4CIF at up to 25 fps (PAL) or 30 fps (NTSC)
- Operates down to 0.3 lux @ F1.4
- Four alarm inputs and four outputs for connecting external devices such as door sensors and relays to activate light and close doors
- Advanced event management including pre- and post image buffers



### AXIS 232D+\*

Day and night network dome camera designed for demanding security installations under all light conditions.

- Automatic day and night functionality with removable IR filter
- Operates down to 0.3 Lux in color and 0.005 Lux in IR-mode
- Same features as AXIS 231D+ above



## INDOOR









### AXIS 212 PTZ

Compact PTZ camera offering full overview and instant zoom with retained image resolution – yet with no moving parts

- Full overview based on high-quality 3 megapixel sensor and wide angle lens
- Instant one-click pan, tilt and zoom; 3x instant zoom; 140° pan and 105° tilt; Pan and Tilt speed 400°/1 sec
- PTZ with no moving parts – no wear and tear
- Simultaneous Motion JPEG and MPEG-4
- 30 frames per second in VGA resolution (640x480 pixels). Whether in overview mode or when zooming in, full VGA resolution is maintained.
- Power over Ethernet
- Advanced event management including pre- and post image buffers
- Two-way audio including built-in microphone and audio detection alarm
- One alarm input and one output for connecting external devices such as door sensors and relays to activate light or close doors



## Axis Network

	Fixed Network Cameras: indoor							Fixed Network Camera
	AXIS 206 Network Camera	AXIS 207 Network Camera	AXIS 207W Network Camera	AXIS 207MW Network Camera	AXIS 210 Network Camera	AXIS 210A Network Camera	AXIS 216FD Network Camera	AXIS 211* Network Camera
Product Portfolio Network Cameras								
Image sensor	1/4" Micron progressive scan CMOS	1/4" Micron progressive scan CMOS	1/4" Micron progressive scan RGB CMOS	1/3" Micron progressive scan RGB CMOS 1.3 Megapixel	1/4" Sony Wfine progressive scan RGB CCD	1/4" Sony Wfine progressive scan RGB CCD	1/4" Micron progressive scan RGB CMOS	1/4" Sony Wfine progressive scan RGB CCD
Day and Night functionality								
Lens	4.0 mm/F 2.0 fixed iris	4.0 mm/F 2.0 fixed iris	4.0 mm/F 2.0 fixed iris	3.6 mm/F 1.8 fixed iris	4.0 mm/F 1.2 fixed iris CS mount	4.0 mm/F 1.2 fixed iris CS mount	Varifocal 2.8-10 mm/F1.3 DC-iris	Varifocal 3.0 - 8.0 mm/F1.0 DC-iris CS mount
Min. illumination/light sensitivity (lux)	4 - 10,000	1 - 10,000	1 - 10,000	2 - 10,000	1 - 10,000	1 - 10,000	1	0.75
Video compression	Motion JPEG	Motion JPEG MPEG-4	Motion JPEG MPEG-4	Motion JPEG MPEG-4	Motion JPEG MPEG-4	Motion JPEG MPEG-4	Motion JPEG MPEG-4	Motion JPEG MPEG-4
Max video resolution (pixels)	640 x 480	640 x 480	640 x 480	1280x1024	640 x 480	640 x 480	640x480	640 x 480
Frames per second	Up to 30, for all resolutions	Up to 30, for all resolutions	Up to 30, for all resolutions	Up to 14 in resolutions up to 1280x720, up to 12 in 1280x1024	Up to 30, for all resolutions	Up to 30, for all resolutions	Up to 30, for all resolutions	Up to 30, for all resolutions
Audio support		One-way	One-way	One-way		Two-way	Two-way	
Alarm inputs/outputs		1/1	1/1	1/1	1/1	1/1	1/1	1/1
Video Motion Detection		✓	✓	✓	✓	✓	✓	✓
Security	Multi-level password	Multi-level password	Multi-level password, IP address filtering, HTTPS encryption	Multi-level password, IP address filtering, HTTPS encryption	Multi-level password, IP address filtering	Multi-level password, IP address filtering, HTTPS encryption	Multi-level password, IP address filtering, HTTPS encryption	Multi-level password, IP address filtering
Lens changeable					✓	✓		✓
Power over Ethernet (IEEE 802.3af)	Yes, with splitter	Yes, with splitter			Yes, with splitter	Built-in	Built-in	Built-in
Serial connectors								
Other							Tamper-resistant casing	




\* Outdoor use requires weather-proof housing








## OVERVIEW

## Network Cameras

## Network Cameras: indoor/outdoor

AXIS 211A* Network Camera	AXIS 221* Network Camera	AXIS 225FD Network Camera
		
1/4" Sony Wfine progressive scan RGB CCD	1/3" Sony Wfine progressive scan RGB CCD	1/4" Sony Wfine progressive scan RGB CCD
	Automatic	Automatic
Varifocal 3.0 - 8.0 mm/F1.0 DC-iris CS mount	Varifocal 3.0 - 8.0 mm/F1.0 DC-iris CS mount	Varifocal 2.8 - 5.8 mm/F1.4 DC-iris
0.75	0.65 (color) 0.08 (B/W)	1 (color) 0.2 (B/W)
Motion JPEG MPEG-4	Motion JPEG MPEG-4	Motion JPEG MPEG-4
640 x 480	640 x 480	640x480
Up to 30, for all resolutions	Up to 45, for all resolutions	Up to 30, for all resolutions
Two-way 1/1	2/1	2/1
✓	✓	✓
Multi-level password, IP address filtering, HTTPS encryption	Multi-level password, IP address filtering, HTTPS encryption	Multi-level password, IP address filtering, HTTPS encryption
✓	✓	
Built-in	Built-in	Built-in
	RS-232, RS-485/422	RS-485/422
		Vandal-resistant, IP66-rated casing Built-in heater and fan

	Pan/Tilt/Zoom Cameras				
	AXIS 212 PTZ Network Camera	AXIS 213 PTZ Network Camera*	AXIS 214 PTZ Network Camera*	AXIS 231D+** Network Dome Camera	AXIS 232D+** Network Dome Camera
Product Portfolio Network Cameras					
Image sensor	1/2" progressive scan CMOS 3 Megapixel	1/4" interlaced CCD	1/4" Sony ExView HAD interlaced CCD	1/4" Sony ExView HAD interlaced CCD	1/4" Sony ExView HAD interlaced CCD
Day and Night functionality		Configurable Built-in IR lamp	Automatic		Automatic
Lens	2.7 mm/F 1.8 fixed iris 3x instant zoom	3.5 - 91 mm auto iris and auto focus 26x optical zoom 12x digital zoom	4.1 - 73.8 mm auto iris and auto focus 18x optical zoom 12x digital zoom	4.1 - 73.8 mm auto iris and auto focus 18x optical zoom 12x digital zoom	4.1 - 73.8 mm auto iris and auto focus 18x optical zoom 12x digital zoom
Min illumination/light sensitivity (lux)	10 lux wide mode 20 lux tele mode	1 (color) 0.1 (B/W)	0.3 (color) 0.005 (B/W)	0.3	0.3 (color) 0.005 (B/W)
Video compression	Motion JPEG MPEG-4	Motion JPEG MPEG-4	Motion JPEG MPEG-4	Motion JPEG MPEG-4	Motion JPEG MPEG-4
Max video resolution (pixels)	640x480	4CIF	4CIF	4CIF	4CIF
Frames per second (NTSC/PAL)	Up to 30 frames for all resolutions	Up to 30/25 for all resolutions	Up to 30/25 for all resolutions	Up to 30/25 for all resolutions	Up to 30/25 for all resolutions
Pan/Tilt/Zoom - Pan range - Tilt range	20 presets 140° 105° Guard tour	20 presets 340° 100°	20 presets 340° 120°	20 presets 360° endless 90° Guard tour	20 presets 360° endless 90° Guard tour
Audio support	Two-way	Two-way***	Two-way		
Alarm inputs/outputs	1/1	2/3***	1/1	4/4	4/4
Video Motion Detection	✓	✓	✓	✓	✓
Security	Multi-level password, IP address filtering, HTTPS encryption	Multi-level password, IP address filtering	Multi-level password, IP address filtering, HTTPS encryption	Multi-level password, IP address filtering, HTTPS encryption	Multi-level password, IP address filtering, HTTPS encryption
Analog video output		✓***			
Serial connectors		RS-232***		RS-232	RS-232
Other	AXIS 295 Video Surveillance Joystick supported	AXIS 295 Video Surveillance Joystick supported Built-in IR light up to 3 m	AXIS 295 Video Surveillance Joystick supported	AXIS 295 Video Surveillance Joystick supported	AXIS 295 Video Surveillance Joystick supported

\*) Also configurable for desktop use \*\*) Designed for continuous motion 24/7 \*\*\* ) With AXIS 213CM

# Video Servers

*Helping you migrate your analog security system into an IP-based video solution*

Axis video servers integrate easily into your existing analog CCTV system. A video server digitizes analog video signals and distributes digital images directly over an IP-based network (e.g. LAN/intranet/Internet), turning analog cameras into network

cameras. Users can view live images from a web browser on any networked computer, anywhere and at any time. With Axis video servers, you get all the benefits that digital technology offers while protecting your existing analog investment.

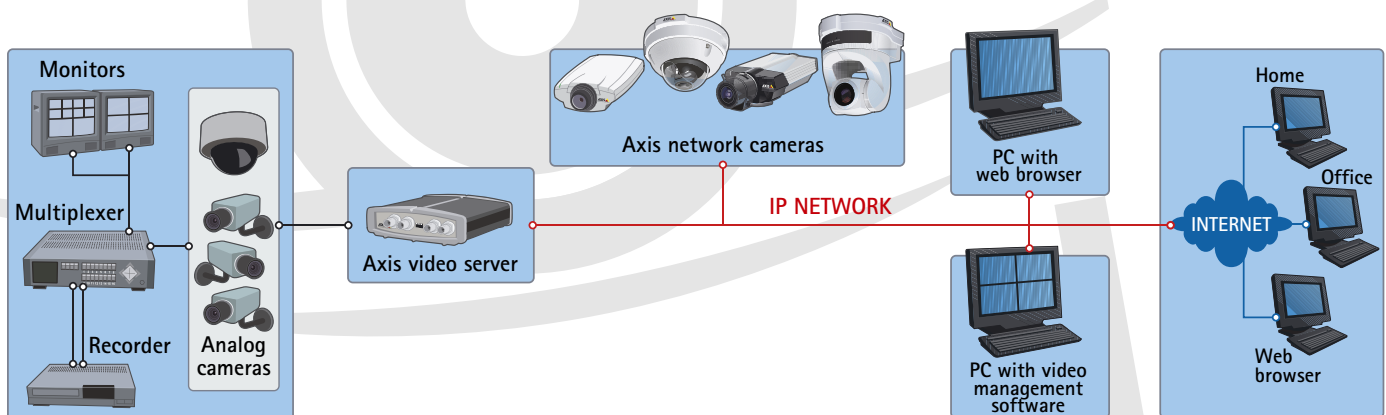
## COMMON FEATURES

- Analog video sources converted to high-quality digital video
- De-interlace filter corrects motion blur caused by the analog video signal
- Products with simultaneous MPEG-4 and Motion JPEG
- Direct connection to IP networks
- Independent system with embedded web server - no need for additional hardware or software to capture and transfer images
- Powerful event and alarm management capabilities including video motion detection, pre- and post-alarm image buffering
- Remote configuration and status with Axis management tools or standard web browser
- Comprehensive set of security features
- Powerful API (AXIS VAPIX™ API), for software integration

## BENEFITS

- Remote access to live images, any time, anywhere, from any computer
- Digital quality images for perfect viewing
- Scalable and future-proof
- Lower total cost of ownership by leveraging existing network infrastructure and legacy equipment
- Convenient digital video storage
- Increased functionalities compared to CCTV system
- Remote and secure accessibility for efficient, centralized management and reduced maintenance costs
- Ease of integration: easy addition of functionality, system expansion and integration with other systems, such as access control or point of sales
- Backed by the industry's largest base of video management software with Axis Application Development Partners

## SYSTEM OVERVIEW



A video server accommodates one or more analog video channels, image digitizer, image compressor and web server with network interface. Video servers digitize analog video sources and distribute digital images over an IP network, turning an analog camera into a network camera. It is ideal for migrating an existing analog system to a network video solution.

By combining an analog CCTV system with a network video system, you acquire all the functionality and benefits that digital technology offers: remote accessibility, cost-effectiveness, flexibility, scalability, integration and future-proof functionality, and superior image quality.

## 1 and 4 CHANNEL VIDEO SERVERS



### AXIS 241S 1 channel

The AXIS 241S has one analog video input and one video loop-through port for an analog monitor, in addition to an Ethernet connection, and I/O connections.

- ▶ Up to 30/25 frames per second up to 4CIF resolution



### AXIS 241SA 1 channel

The AXIS 241SA connects one analog camera and features two-way audio support.

- ▶ Up to 30/25 frames per second up to 4CIF resolution
- ▶ Integrated two-way audio support



### AXIS 241Q 4 channels

The AXIS 241Q connects up to four analog cameras and transmit digital video from all four channels simultaneously via an Ethernet connection.

- ▶ Up to 30/25 frames per second up to 4CIF resolution



### AXIS 241QA 4 channels

The AXIS 241QA connects up to four analog cameras and features two-way audio support.

- ▶ Up to 30/25 frames per second up to 4CIF resolution
- ▶ Integrated two-way audio support

### COMMON FEATURES AXIS 243SA/241Q/S/QA/SA

- ▶ Simultaneous Motion JPEG and MPEG-4
- ▶ 10 different resolutions up to 704x576 (PAL) and 704x480 (NTSC), and 5 different compression levels
- ▶ Built-in video motion detection
- ▶ 4 freely configurable alarm inputs and 4 outputs
- ▶ 9 MB pre/post alarm memory per channel
- ▶ Support for third-party pan/tilt/zoom devices, using uploadable PTZ drivers
- ▶ Up to 20 simultaneous viewers (unlimited with MPEG-4 multicast)
- ▶ Auto sensing for PAL and NTSC

### AXIS 243SA 1 channel

The AXIS 243SA is a one-channel video server providing full frame rate video in MPEG-4 and Motion JPEG.

- ▶ Full frame rate (30/25fps) in MPEG-4 and Motion JPEG in all resolutions
- ▶ High quality, de-interlaced video
- ▶ Integrated two-way audio support
- ▶ Supports Internet Protocol version 6 (IPv6)



### AXIS 240Q 4 channels

The AXIS 240Q connects up to four analog cameras and transmits digital video from all four channels simultaneously via an Ethernet connection, at a maximum frame rate of 6/5 frames per second on each channel.

- ▶ High quality Motion JPEG video at 6 (NTSC) or 5 (PAL) frames per second per channel
- ▶ Multiple resolutions and compression levels
- ▶ 4 alarm inputs and 4 outputs
- ▶ 3 MB pre/post alarm memory per channel
- ▶ Support for PTZ devices, uploadable PTZ drivers
- ▶ Up to 20 simultaneous viewers



### AXIS 242S IV 1 channel

Intelligent one-channel video server offering unique possibilities for executing advanced embedded applications such as people counting, trip wire detection and other Intelligent Video solutions.

- ▶ Intelligent video and audio analyses inside
- ▶ Dedicated Digital Signal Processor for advanced video and audio analysis
- ▶ Simultaneous Motion JPEG and MPEG-4
- ▶ Up to 30/25 frames per second in resolutions up to 704x576 (PAL) / 704x480 (NTSC)
- ▶ 9 MB pre-/post-alarm buffering for securing critical images
- ▶ Support for PTZ and dome cameras
- ▶ Available with preloaded applications: AXIS IVM120 – People counter
- ▶ More applications available from Axis Application Development Partners (ADP)



## FOR ENTERPRISE INSTALLATIONS



### AXIS Rack Solution

The AXIS Rack Solution enables large surveillance installations to quickly install many video servers in the same rack.

Designed for improved serviceability and quick replacement of units, the AXIS Rack Solution holds up to 12 interchangeable and hot-swappable blades, so there is no need to power down when installing or changing blades. The AXIS Rack Solution combines high reliability and functionality with flexible and professional installation. It is specially designed for applications involving a large number of cameras, both existing and new, as well as applications that cover large physical surveillance areas such as prisons, airports, large buildings, university campuses, subways and railway stations.

#### Solution components:

- ▶ 19-inch AXIS Video Server Rack
  - 12 slots for Axis video server blades; "Hot Swap" support
  - Network, serial communication and I/O connectors at the rear of each slot, and common power supply
  - Expandable system, simply by adding blades and wiring up
  - Integrated power supply for easy installation/expansion, and easy addition of back-up power solutions
  - Higher density of video channels compared with stand-alone solutions
  - Improved serviceability and trouble-free unit replacement
- ▶ Any combination of AXIS 240Q, AXIS 241Q and AXIS 241S Blade Video Servers

## INTELLIGENT VIDEO MODULES










### AXIS IVM120 People Counter

Effective monitoring of customer traffic.

The AXIS IVM120 People Counter is a tamper-proof software application developed for the AXIS 242S IV Video Server, intended for retail stores and other indoor environments where you need to count people. Easy to set up, it enables shop owners to instantly monitor customers per hour, day or week over the network. Collect data such as number of passages, make trend analyses and use for evaluation of advertising and promotions. All the analyses are done on-site, inside the video server, making the scalability infinite.

- ▶ Accurate customer/visitor counting online
- ▶ Counting your customers per hour, day or week
- ▶ Easy to set up
- ▶ The module can be pre-installed in the AXIS 242S IV, or easily added afterwards – "one-click installation"
- ▶ Integrates easily with your network
- ▶ Effective strategic decision support
- ▶ Support for AXIS VAPIX API for easy integration into other applications

# Axis Video Servers

1-Channel Video Servers					4-Channel Video Servers		
	AXIS 241S Video Server	AXIS 241SA Video Server	AXIS 242S IV Video Server	AXIS 243SA Video Server	AXIS 240Q Video Server	AXIS 241Q Video Server	AXIS 241QA Video Server
Product Portfolio Video Servers							
Video compression	Motion JPEG MPEG-4	Motion JPEG MPEG-4	Motion JPEG MPEG-4	Motion JPEG MPEG-4	Motion JPEG	Motion JPEG MPEG-4	Motion JPEG MPEG-4
Max video resolution (pixels)	704x480 (NTSC) 704x576 (PAL)	704x480 (NTSC) 704x576 (PAL)	704x480 (NTSC) 704x576 (PAL)	704x480 (NTSC) 704x576 (PAL)	704x480 (NTSC) 704x576 (PAL)	704x480 (NTSC) 704x576 (PAL)	704x480 (NTSC) 704x576 (PAL)
Frames per second per channel (NTSC/PAL)	<i>Motion JPEG</i> 30/25 (4CIF) <i>MPEG-4</i> 30/25 (2CIF)	<i>Motion JPEG</i> 30/25 (4CIF) <i>MPEG-4</i> 30/25 (2CIF)	<i>Motion JPEG</i> 30/25 (4CIF) <i>MPEG-4</i> 30/25 (2CIF)	<i>Motion JPEG</i> 30/25 (4CIF) <i>MPEG-4</i> 30/25 (4CIF)	<i>Motion JPEG</i> 6/5 (all resolutions) using all 4 channels	<i>Motion JPEG</i> 30/25 (CIF) using all 4 channels 30/25 (4CIF) using 1 channel <i>MPEG-4</i> 20/17 (CIF) using all 4 channels 30/25 (2CIF) using 1 channel	<i>Motion JPEG</i> 30/25 (CIF) using all 4 channels 30/25 (4CIF) using 1 channel <i>MPEG-4</i> 20/17 (CIF) using all 4 channels 30/25 (2CIF) using 1 channel
Video source	1 BNC composite or Y/C video input <sup>1)</sup>	1 BNC composite or Y/C video input <sup>1)</sup>	1 BNC composite or Y/C video input	1 BNC composite or Y/C video input	4 BNC composite inputs	4 BNC composite inputs	4 BNC composite inputs
Intelligent Video			✓				
Audio support		Two-way	For analysis only	Two-way			Two-way
Alarm inputs/outputs	4/4	4/4	4/4	4/4	4/4	4/4	4/4
Motion detection	✓	✓	✓	✓	✓	✓	✓
Pan/Tilt/Zoom support	✓	✓	✓	✓	✓	✓	✓
Security	Multi-level password IP address filtering HTTPS	Multi-level password IP address filtering HTTPS	Multi-level password IP address filtering HTTPS	Multi-level password IP address filtering HTTPS, IEEE 802.1x	Multi-level password IP address filtering HTTPS	Multi-level password IP address filtering HTTPS	Multi-level password IP address filtering HTTPS
Serial connectors	RS-232, RS-485/422	RS-232, RS-485/422	RS-232, RS-485/422	RS-232, RS-485/422	RS-232, RS-485/422	RS-232, RS-485/422	RS-232, RS-485/422
Available in blade version	✓				✓	✓	
Other			Space for downloadable Intelligent Video modules	IPv6 Quality of Service (QoS)			

<sup>1)</sup> Y/C video requires converter cable

## Large installations

### AXIS Video Rack Solution



AXIS Rack Solution combines the AXIS Video Server Rack, a 19" 3U rack mountable chassis (including built-in replaceable power supply) with up to 12 interchangeable and hot-swappable Blades. Supports AXIS 240Q, AXIS 241Q, AXIS 241S



# Video Management Software

*Remote viewing, recording and event management*

Axis provides video management software that complements the company's network cameras and video servers.

Axis Application Development Partners (ADP) offer an additional wide range of complete video solutions.

## APPLICATION DEVELOPMENT PARTNERS



Axis Application Development Partners (ADP), which comprise more than 350 companies, offer a wide range of complete software solutions that meet varying specifications and requirements for different application areas – from entry-level software to comprehensive applications covering most industry segments. More information about Axis Application Development Partners is available at [www.axis.com/partner/adp\\_intro.htm](http://www.axis.com/partner/adp_intro.htm)

## VIEWING, RECORDING and EVENT MANAGEMENT

### AXIS Camera Station

AXIS Camera Station provides video monitoring, recording and event management functions. Users can record video continuously, on schedule, on alarm and/or on motion detection. The software has multiple search functions for recorded events. Remote viewing and playback are also possible with the use of a web browser or the AXIS Camera Station Windows client.

- › View and record live video from multiple cameras simultaneously
- › Multiple recording modes: continuous, scheduled, on alarm and/or motion detection
- › High quality recordings in MPEG-4 and Motion JPEG
- › Optional\* AXIS Image Enhancer component for improving image clarity in poor visibility conditions such as fog, smoke, rain and snow
- › No recording limitation in software
- › Multiple search functions for recorded events
- › Audit log
- › Remote access via web browser or Windows client
- › Control of PTZ and dome cameras
- › Alarm alert functions (beep and e-mail)
- › Full duplex, real-time audio support
- › Multilingual support for English, French, German, Italian, Russian and Spanish

### AXIS Camera Station User interface

AXIS Camera Station runs as a Windows service in the background on a dedicated PC. Remote viewing and playback are possible with the use of a web browser or with the AXIS Camera Station's Windows client.

Red frame around image when recording

Live view



View selection  
4,6,9,10,13 or  
16 split view

I/O control

View recordings

Event log

**FREE OF CHARGE!**



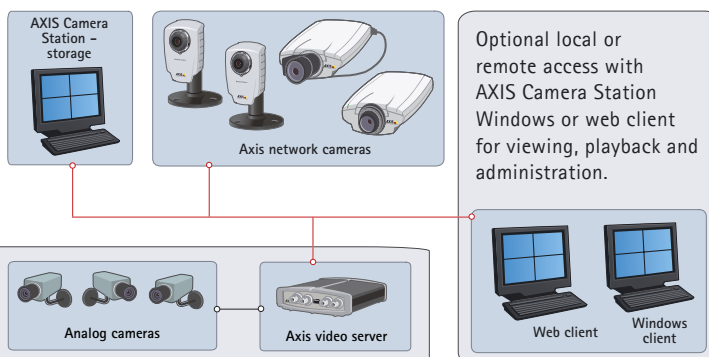
### AXIS Camera Station One

AXIS Camera Station One is a free one-camera version of AXIS Camera Station, designed for single camera viewing and recording. The software is available from the Axis website and is upgradable to a 4- or 10-base license of AXIS Camera Station.

\*Add-on functionality that is integrated into AXIS Camera Station (version 1.20 and higher) and activated with a separate license key. License keys can be purchased in packages of 1 and 5 from your nearest reseller. One AXIS Image Enhancer license is required per video channel.

## Scenario 1

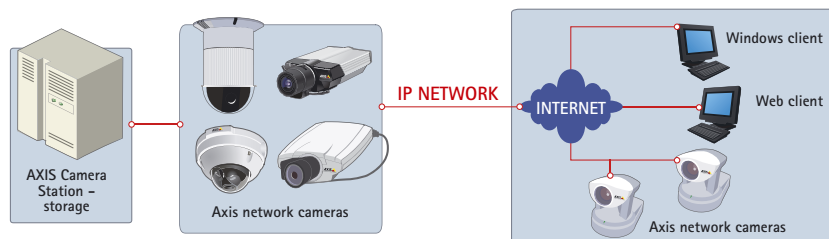
AXIS Camera Station and Axis network cameras are located on the same local network. A typical environment for this type of installation is a small office or retail shop. Viewing, playback and administration are done directly in AXIS Camera Station.



The same functionality is achieved with your existing CCTV system, with analog cameras connected to an Axis video server.

## Scenario 2

Typical scenarios are schools or retail stores with different locations but one common surveillance system, which can be remotely accessed from anywhere on the Internet by a supervisor or a contracted security company.



## AXIS Image Enhancer

Add-on software component for AXIS Camera Station that improves image quality in poor visibility conditions

AXIS Image Enhancer is an add-on software component for AXIS Camera Station that improves image quality in fog, smoke, rain and snow. Video is shown without distorting elements, which makes this the ideal solution for any situation where video quality can be affected by bad weather and crucial information can be lost.

- Improves image quality in fog, smoke, rain and snow; extends visibility in harbors, airports, roads and tunnels
- Superior results compared with brightness/contrast adjustments; optimal image enhancement is achieved with video taken between dawn and dusk
- Ideal for outdoor cameras
- For use with live or recorded color only video (supports all Axis network cameras and video servers)
- Add-on functionality that is integrated into AXIS Camera Station (version 1.20 and higher) and activated with a separate license key
- License keys can be purchased in packages of 1 and 5. One AXIS Image Enhancer license is required per video channel



Select a live or recorded video stream from AXIS Camera Station and improve the quality with AXIS Image Enhancer.

**SEE FOR YOURSELF:** Try AXIS Image Enhancer with AXIS Camera Station now!

**FREE 30-DAY TRIAL:** [www.axis.com/camstation/aie](http://www.axis.com/camstation/aie)

Free 30-day demo version of AXIS Camera Station (available in English, French, German, Italian and Spanish), including free 30-day demo version of AXIS Image Enhancer.

## TECHNICAL OVERVIEW

AXIS Camera Station			
Application	Recording and security surveillance/remote monitoring	User-controlled access per camera	✓
Live viewing	Up to 25 (16 in same view)	Audio support	Full duplex audio without recording
Provides motion detection (whether camera has built-in video motion detection or not)	✓	Alarm alert functions (beep and e-mail)	✓
Supports built-in video motion detection in Axis network video products (saves use of bandwidth)	✓	Interactive PTZ control	✓
Archiving	✓	Event-based search function	✓
Recording length	No limit	Event logging	✓
Recording modes	Scheduled, motion detection, alarm triggers, manual recording	Works on PC/workstation	✓
Remote viewing and playback via the Web	✓	Works on PDA running Pocket PC 2002/2003	
Remote viewing, playback and administration via Windows client	✓	Language support	English, French, German, Spanish, Italian, Russian

## Bundles

### *Complete solutions and special offers*

Axis offers a number of product bundles; for instance, a network camera with outdoor housing and solutions including several network cameras with video management software. These

solutions let you get started quickly with your video application. For a full list of available bundles and special offers, please visit [www.axis.com](http://www.axis.com) or contact your local Axis office.



### AXIS 210 Surveillance Kit

This bundle consists of four AXIS 210 Network Cameras and one AXIS Camera Station software with licenses for four network cameras/video servers.



### AXIS 206 Surveillance Kit

This bundle consists of four AXIS 206 Network Cameras and one AXIS Camera Station software with licenses for four network cameras/video servers.



### AXIS 210A Surveillance Kit

This bundle consists of four AXIS 210A Network Cameras and one AXIS Camera Station software with licenses for four network cameras/video servers.



### AXIS 207 Surveillance Kit

This bundle consists of four AXIS 207 Network Cameras and one AXIS Camera Station software with licenses for four network cameras/video servers.

## INSTALLATION and MANAGEMENT TOOLS

### AXIS Installation Monitor

Easy adjustment of focus, viewing angle and direction.

AXIS Installation Monitor software simplifies the physical installation and service of Axis network cameras mounted on walls, ceilings, poles, etc. Basic camera properties can be monitored by using a handheld Pocket PC, and without having to rely on a laptop or contact with a colleague at a remote computer. The installer can easily view the live image from the camera while adjusting the focus, viewing angle and direction, and even the field of view for pan/tilt cameras.

- › Automatically detects Axis video products
- › Simple adjustment of focus with easy-to-read indicator
- › Pan and tilt control
- › Views and controls I/Os
- › Supports wired, wireless and PoE installations
- › Makes adjustments conveniently by using a Pocket PC



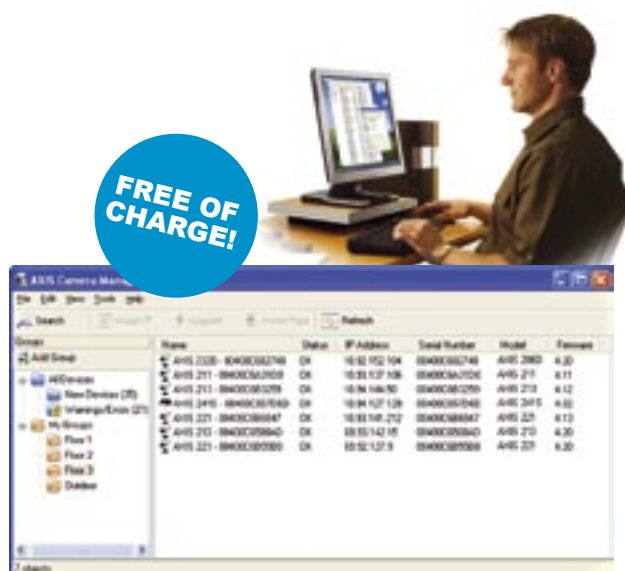
[www.axis.com/products/  
cam\\_im\\_software](http://www.axis.com/products/cam_im_software)

### AXIS Camera Management

AXIS Camera Management is a powerful and efficient installation and management tool for Axis network video products. The tool uses standard Internet protocols and runs on a standard Windows PC.

- › Locates and shows status of Axis video devices on the network
- › Assigns IP addresses, manually or automatically from a specified range
- › Firmware upgrades of multiple units, in sequence or in parallel

[www.axis.com/products/  
cam\\_mgmt\\_software](http://www.axis.com/products/cam_mgmt_software)



# Hardware accessories

*A full range of accessories for all your video communication needs*

Axis provides a wide range of complementary video and network accessories and devices for your network cameras and video servers.



## Power over Ethernet

Network video without the need for power outlets.

- ▶ With the use of Power over Ethernet products, Axis network video products can communicate data and receive power over a single Ethernet cable



## IR illuminators

Infrared light for indoor/outdoor surveillance in low light or complete darkness.

- ▶ Semi-covert or completely covert models available
- ▶ Use with AXIS 213 PTZ, AXIS 214 PTZ, AXIS 232D+, AXIS 221 and AXIS 225FD



## Protective housings

For mounting Axis network cameras outdoors and in harsh, humid and dusty indoor environments.

- ▶ Various housings available

## AXIS 295 Video Surveillance Joystick

Easy joystick control of Axis PTZ and dome cameras.

- ▶ Easy to install and configure using USB interface
- ▶ Durable high quality joystick
- ▶ X/Y-axis for positioning and turning handle for zoom
- ▶ 12 programmable push-buttons



## Lenses and lens accessories

- ▶ Lens 4mm CS mount
- ▶ Lens CS varifocal 3.5-8mm DC-IRIS



## Mounting accessories

- ▶ Stand cam metal
- ▶ Stand cam plastic



## Connectors and cables

- ▶ Cable serial null modem
- ▶ Terminal Conn. 4P 3.81mm
- ▶ Terminal Conn. 8P 3.81mm

## Power accessories

- ▶ Mains adapters and extension cables



# Technical Corner

*Designing a system*

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- › About
  - › Axis Superior Image Quality
  - › Axis' MPEG-4 support
  - › Power over Ethernet
- › Preparing your network video project
  - › Main considerations
  - › Free project tools
    - Technical Guide to Network Video
    - AXIS Network Video Design Tools CD

## AXIS SUPERIOR IMAGE QUALITY

Image quality is one of the most important features of any camera, if not the most important. This is particularly so in surveillance and monitoring applications, where lives and property may be at stake.

### Determining factors

Unlike traditional analog cameras, Axis network cameras are equipped with processing power not only to capture and present the images, but also to digitally manage and compress the video for network transport. There is a natural trade-off between levels of compression and image quality. But even so, image quality can vary considerably, depending on choice of optics and image sensor, available processing power and level of sophistication of the algorithms. To summarize, one should specifically look at the aspects of

- ▶ Type of image sensor
- ▶ Low light capabilities of the camera
- ▶ Ability to replace the lens
- ▶ Resolution
- ▶ Supported compression standards
- ▶ Image capture technology

### Why is Axis image quality superior?

Since the development of network cameras first began, Axis introduced a stream of image enhancing technologies and patents. From a technical point of view, Axis' Superior Image Quality rests on three pillars:

- ▶ Advanced signal processing, image enhancement algorithms and video compression technologies
- ▶ Custom-designed image processing and video networking chips
- ▶ Careful selection and matching of the latest image sensors and lenses



## AXIS' MPEG-4 SUPPORT

Many Axis video products feature advanced real-time video encoding that can deliver simultaneous MPEG-4 and Motion JPEG streams. This gives users the flexibility to maximize image quality for recording and reduce bandwidth needs for live viewing.

Axis MPEG-4 follows the ISO/IEC 14496-2 standard and provides Advanced Simple Profile (ASP) at level 5. With a wide range

settings, it is possible to configure the streams to be optimized for both bandwidth and quality. The Axis Media Control (AMC) with MPEG-4 decoder included, makes viewing of streams and integration into applications easy.

Furthermore, Axis' multicasting support enables an unlimited number of viewers without sacrificing network system performance.

## POWER OVER ETHERNET (PoE)

*One cable for transmitting video, audio\* and power*

With a network video solution, you have the option of using the same Ethernet cable both for data communications and power. This feature makes it easier to install products since an electrician is not required and the network video product is able to operate even when there is a power failure if the PoE source is connected to a UPS.

*\* depending on camera model*

PoE technology is regulated in a standard called IEEE 802.3af and is designed in a way that does not degrade the network data communication performance or decrease the network reach. The power delivered over the LAN infrastructure is automatically activated when a compatible terminal is identified, and blocked to legacy devices that are not compatible. This feature allows users to freely and safely mix legacy and PoE-compatible devices on their network.

### Power over Ethernet



Network Switch  
with PoE

PoE



Axis Network Camera  
with built-in PoE

## PREPARING YOUR NETWORK VIDEO PROJECT MAIN CONSIDERATIONS

### 1. Define the scene and type of network video products required

Scene: What kind of scene do you want to monitor? How important is it?	This will help you determine the features you would like to have in a network camera, such as video quality, light sensitivity and type of lens.
Lighting conditions: level of indoor and/or outdoor light sensitivity required	Axis offers network cameras for indoor use, as well as models for both indoor/outdoor conditions. Indoor/outdoor cameras have varifocal lens that automatically adjust the lens' iris. Day/night cameras, which provide color images during daytime and black & white images during night time are also available. Check details on the network camera's light sensitivity both in indoor and/or outdoor environments. Lighting conditions are measured in "lux".
Distance from position of camera to object being monitored	This determines the type of camera and type of lens (normal, telephoto, wide-angle) to use, as well as the placement of the camera(s). Choose Axis network cameras with fixed focal or varifocal lenses, with or without replaceable lenses, according to the level of flexibility needed.
Angle of view needed: wide, narrow, general or detailed coverage (Determine how much of the scene you need to see)	Network cameras come with fixed angle and focus, as well as variable ones that allow remote pan/tilt/zoom capability, which enables a wider area of coverage.
High or low traffic	The higher the traffic, the more cameras may be needed.

### 2. Determine your application needs: features, recording and storage needs

Application: Simple remote viewing, intelligent surveillance system with advanced event management, input/output triggers, audio?
Viewing and recording needs: Determine when and how often you need to view and record: day, night and/or weekends? Schedule the needs for every scene.
Calculate storage requirements
Calculate bandwidth requirements

### 3. Determine your network needs (LAN/WAN, wireless)

Assess network use of current LAN: what are you or the company using it for?
Assess network use of current WAN links
Determine the pattern of congestion levels over a given period
Do you need to add new equipment to the network, e.g. switches, or use existing infrastructure and equipment?
Do you need to subscribe to additional ISPs for redundancy?
Is distributed storage needed?

## FREE PROJECT TOOLS

*A variety of tools that will help you design your network video project*

### Technical Guide to Network Video



Before setting up your own network video system, you need to consider what features the system can provide. It is equally important to consider factors such as performance, interoperability, scalability, flexibility and future-proof functionality. This reference guide explores the techniques and factors to consider for the successful deployment of IP-based security surveillance and remote monitoring applications. It will help you achieve a solution that takes full advantage of the potential of network video technology.

Multilingual: English, German, French, Italian, Spanish and Dutch!

To order your free personal copy, visit  
[www.axis.com/free\\_guide](http://www.axis.com/free_guide)

### Axis Network Video Design Tools CD



This CD guides you through the factors and settings to consider for the successful deployment of a network video installation. It includes the AXIS Design Tool, a simulation-based calculation tool which helps determine the bandwidth and storage needs for specific network video projects.

Multilingual: English, German, French, Italian, Spanish and Dutch!

To order your free personal copy, visit  
[www.axis.com/free\\_cd](http://www.axis.com/free_cd)

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## About Axis

Axis increases the value of network solutions. The company is an innovative market leader in network video and print servers. Axis' products and solutions are focused on applications such as security surveillance, remote monitoring and document management. The products are based on in-house developed chip technology, which is also sold to third parties.

Axis was founded in 1984 and is listed on the Nordic list, MidCap, Information Technology. Axis operates globally with offices in 17 countries and in cooperation with distributors, system integrators and OEM partners in 70 countries. Markets outside Sweden account for more than 95% of sales. Information about Axis can be found at [www.axis.com](http://www.axis.com)

[www.axis.com](http://www.axis.com)