

# AXIS 210 Network Camera

*Superior video quality for professional indoor applications*

From the leader in video networking, the AXIS 210 is a professional-level network camera, suitable for indoor security surveillance and remote monitoring applications. Backed by the industry's largest application base, it is an ideal choice for securing offices, shops and other facilities over the local area network or across the Internet.

Connecting directly to IP networks via Ethernet, the built-in web server, open application interface and sophisticated networking functions based on industry standards greatly simplify installation and systems integration. This network camera is ideal for video viewing, recording and management.

Designed to provide the best image quality in its class, AXIS 210 uses a progressive scan CCD sensor and powerful real-time image processing hardware to guarantee full frame rate, even at VGA resolution. Furthermore, its unique combination of Motion-JPEG and advanced MPEG-4 video compression modes allows systems to be optimized for image quality and bandwidth-efficiency. More functions include video scaling, video motion detection, pre and post alarm buffers, notification, privacy masking and support for external I/O, such as sensors and relays.



- Superior image quality using progressive scan CCD sensor and advanced video processing
- Fully featured network camera, including built-in web server
- Built-in Video Motion Detection with pre and post alarm buffers
- A range of resolutions up to: 640 x 480 in different quality levels at up to 30 frames per second
- Capability to insert mask, custom logo or overlay image in the video stream

## General

- Motion JPEG or MPEG-4 based network camera with built-in web server
- Superior quality CCD image sensor with progressive scan

## System Requirements

The following specification applies to the use of browser-based viewing. When using application software, please refer to the specifications provided with the software.

- Supported operating systems:  
Windows XP, 2000, NT4.0, ME and 98, Linux and Mac OS X
- Supported Web Browsers:  
Windows - Internet Explorer 5.x or later and Mozilla 1.4\* or later  
Linux - Mozilla 1.4\* or later  
Mac OS X - Mozilla 1.4\* or later and Netscape 7.1\* or later
- Hardware:  
Meeting the specification for selected operating system and browser

\* Limitations in functionality

## Hardware & System

- AXIS ETRAX 100LX 32bit RISC CPU
- 16 MB RAM, 4 MB Flash
- AXIS ARTPEC-2 video compression chip with 8 MB RAM
- Linux 2.4 kernel
- Watch Dog functionality

## Connections

- Network: 10Base-T/100Base-TX Ethernet networks (RJ-45)
- I/O: 1 alarm input + 1 output (terminal block)
- Power: 9 VDC / 9 W - external Power Supply, included
- Alternative input voltage 7-20V DC, min 4W



## Camera

- Lens F 2.0 4 mm glass lens, CS mount
- Focus range 0.5 mm to infinity
- Sony Super HAD progressive scan CCD 1/4" RGB
- Color & Black/White
- Frame rate: up to 30 frames per second in all resolutions
- Video compression: Motion JPEG and MPEG-4 (Part 2, Advanced Simple Profile at level 5)
- Supports various resolutions and video quality settings
- Max resolution: 640 x 480 VGA in 30 frames per second
- Illumination: 3-10 000 Lux
- Rotation: 90, 180, 270 degrees
- Image scaling

The file size of a JPEG image depends on resolution, compression level and image content. Below is a table with average file size in KByte, derived from real life tests

| Resolution | JPEG compression level |        |      |           |
|------------|------------------------|--------|------|-----------|
|            | Low                    | Medium | High | Very high |
| 640x480    | 55                     | 35     | 20   | 16        |
| 320x240    | 18                     | 12     | 8    | 5         |
| 160x120    | 8                      | 5      | 3    | 3         |

## Security

- Multi user level password protection for restricted camera access
- IP address filtering

## Functions

- Built-in Video Motion Detection
- Scheduled and triggered event functionality with alarm notification via e-mail, TCP, HTTP and upload of images via e-mail, FTP & HTTP
- Pre/post alarm buffer of up to 20 seconds of 320x240 resolution video at 4 frames per second
- A mask, custom logo or overlay may be inserted in the video stream
- Flash memory provide ability to upload embedded applications
- Up to 20 simultaneous users
- UPnP
- AXIS Dynamic DNS service

## Firmware updates

- Flash memory allows firmware updates over the network using HTTP or FTP over TCP/IP. Firmware upgrades are available from [www.axis.com](http://www.axis.com)

## Custom Applications

Designed for system integration and custom application development by providing:

- AXIS HTTP API
- AXIS Media Control SDK
- Embedded scripting support
- Customized HTML pages

## Operating Conditions

- Temp: 5-45 °C (41-113 °F)
- Humidity: 20-80 % RHG

## Dimensions and Weight

- Height: 38 mm (1 1/2 ")
- Width: 88 mm (3 7/16")
- Depth: 146 mm (5 3/4 ")
- Weight: 305 g (10 3/4 oz) (excl. power supply)

## Approvals

- EMC:
  - CE Compliant according to: EN55024:1998 + A1, EN55022:1998 + A1 Class B, EN61000-3-2:2000, EN61000-3-3:1995 + A1
  - FCC Part 15, subpart B, demonstrated by compliance with EN55022:1998 Class B
  - VCCI:2002 Class B ITE
  - C-tick AS/NZS 3548
- Safety: EN60950, UL, CSA

## Included Accessories

- Power Supply
- Stand
- Connector kit
- CD containing Setup-software, Full User's Manual and software

## Available Accessories (not incl.)

- AXIS Camera Station
- AXIS Camera Recorder - a professional way to monitor and record from up to 16 cameras. Review and export recorded material without interrupting an ongoing recording
- More software applications available via partners: [www.axis.com/adp\\_cd](http://www.axis.com/adp_cd)

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