AXIS 211/211A
Network Cameras

Superior video quality for professional indoor and outdoor applications

The AXIS 211 and AXIS 211A, professional network cameras from the market leader in network video, are ideal for surveillance and remote monitoring. Supported by the industry's largest base of software applications, they provide the perfect solution for securing offices, shops, schools and other facilities over the local area network or across the Internet. The AXIS 211A, with its additional integrated audio support, enables remote users to not only view, but also listen in on an area and communicate orders or requests to visitors or intruders via two-way audio communication.

The support for Power over Ethernet, enabling power to the cameras to be delivered via the network, reduces cabling requirements and installation costs, and consolidates power for higher reliability. Connecting directly to IP networks, the built-in Web server, open application interface and sophisticated networking functions based on open industry standards greatly simplify systems integration.

The cameras provide the best image quality in their class both at indoor and outdoor lighting conditions, giving full frame rate even at VGA resolution, thanks to the progressive scan CCD sensor and powerful real-time image processing hardware.

- ■ Superior image quality using progressive scan CCD and varifocal DC-iris lens

- ■ Power over Ethernet support (IEEE 802.3af) simplifies installation

- ■ Up to 30 frames per second in VGA 640 x 480 resolution

- ■ Simultaneous Motion JPEG and MPEG-4 streams optimize for quality and bandwidth

- ■ Built-in motion detection with pre- and post-alarm image buffering

- ■ Integrated two-way audio support (AXIS 211A)

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232295/EN/R1/0501

Specifications

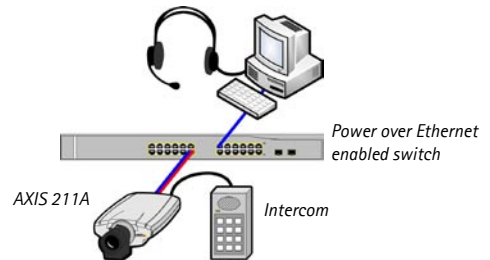|			
Image Sensor	1/4" Sony Wfine progressive scan RGB CCD	**Installation, management and maintenance**	Installation tool on CD and web-based configuration Support for configuration backup and restore Support for firmware upgrades over HTTP or FTP, firmware available at www.axis.com
Lens	CS mount varifocal 3.0 - 8.0 mm, F1.0, DC-iris, horizontal viewing angle: 27°-67°, focus range: 0.2 m to infinity	**Video access from Web browser**	Camera live view, sequence tour capability for up to 20 Axis cameras, customizable HTML pages
Minimum illumination	0.75 lux, F1.0	**Minimum Web browsing requirements**	Pentium III CPU 500 MHz or higher, or equivalent AMD 128 MB RAM AGP graphic card, Direct Draw, 32 MB RAM Windows XP, 2000, NT4.0*, ME* or 98*, DirectX 9.0 or later Internet Explorer 5.x or later For other operating systems and browsers see www.axis.com/techsup *Motion JPEG only
Video compression	Motion JPEG MPEG-4 Part 2 (ISO/IEC 14496-2), Profiles: ASP and SP		
Resolutions	16 resolutions from 640 x 480 to 160 x 120 via API, 5 selections via configuration web page		
Frame rate	Up to 30 frames per second in all resolutions		
Video streaming	Simultaneous Motion JPEG and MPEG-4 Controllable frame rate and bandwidth Constant and variable bit rate (MPEG-4)	**System integration support**	Powerful API for software integration available at www.axis.com, event trigger data in video stream, AXIS Media Control SDK, embedded scripting support, embedded operating system: Linux 2.4
Image settings	Compression levels: 11 (Motion JPEG)/23 (MPEG-4) Rotation: 90°, 180°, 270° Configurable brightness, contrast, exposure, white balance, fine tuning of behavior at low light Overlay capabilities: time, date, text, privacy mask, custom logo or image	**Supported protocols**	HTTP, TCP, RTSP, RTP, UDP, IGMP, RTCP, SMTP, FTP, DHCP, UPnP, ARP, DNS, DynDNS, SOCKS. More information on protocol usage available at www.axis.com
Audio (AXIS 211A)	Configurable for built-in or external microphone G.711 PCM 64 kbit/s, G.726 ADPCM 32 or 24 kbit/s, full duplex, half duplex, simplex or audio off	**Applications (not incl.)**	AXIS Camera Station - Surveillance application for viewing, recording and archiving up to 25 cameras AXIS Camera Recorder - Surveillance application for viewing and recording up to 16 cameras AXIS Camera Explorer – Basic software for viewing and manual recording See www.axis.com/partner/adp_partners.htm for more software applications via partners
Shutter time	2 sec to 1/12500 sec		
Security	Multiple user access levels with password protection IP address filtering		
Users	20 simultaneous users of which 10 with audio Unlimited users using multicast (MPEG-4)		
Alarm and event management	Built-in multi-window motion detection, external I/O, triggered and scheduled events with several notification options, pre- and post alarm buffer AXIS 211: 1.2 MB (approx. 40 sec of 320 x 240 video at 4 frames per sec), AXIS 211A: 9 MB (approx. 5 min)	**Included Accessories**	Power supply 9 V DC, stand, connector kit, Installation Guide, CD with installation tool, software and User's Manual, MPEG-4 licenses (1 encoder, 1 decoder), MPEG-4 decoder (Windows)
Connectors	Ethernet 10BaseT/100BaseTX, RJ-45 Terminal block for I/O (1 alarm input, 1 output) and alternative power supply AXIS 211A: 3.5 mm jack for Mic in (max 270 mVpp) or Line mono input (max 3.2 Vpp), 3.5 mm jack for Line mono output (max 3.0 Vpp) to active speaker	**Accessories (not incl.)**	Housings for installation outdoors or in adverse indoor environments Power over Ethernet midspans AXIS 292 Network Video Decoder AXIS MPEG-4 Decoder 10 user license pack
Processors and memory	CPU: ETRAX 100LX 32bit Video processing and compression: ARTPEC-2 RAM: 16 MB (AXIS 211)/32 MB (AXIS 211A) Flash: 4 MB (AXIS 211)/8 MB (AXIS 211A)	**Approvals**	EMC: EN55024:1998 + A1 + A2, EN55022: 1998 + A1 Class B, EN61000-3-2:2000, EN61000-3-3:1995 + A1, FCC Part 15 Subpart B Class B by compliance with EN55022:1998 Class B, VCCI:2003 Class B ITE, C-tick AS/NZS 3548, Canadian ICES-003 B by compliance with EN55022:1998 Class B Safety: EN60950, UL, CSA
Watchdog	Watchdog with automatic unit or process reboot Can be monitored by other systems via digital output		
Power	7-20 V DC max 5 W, or Power over Ethernet (IEEE 802.3af) with power classification: Class 0 (AXIS 211)/ Class 2 (AXIS 211A)	**Dimensions (HxWxD) and weight**	AXIS 211: 38 x 95 x 172 mm (1½" x 3¾" x 6^{15}/₁₆") AXIS 211A: 38 x 95 x 178 mm (1½" x 3¾" x 6¾") 345 g (12³/₁₆ oz) excl. power supply
Operating conditions	5 - 45 °C (41 – 113 °F), humidity 20 - 80% RH		

Interlaced, 20 ms difference between odd and even lines

Progressive Scan, all lines are captured at the same time

Progressive scan is used instead of the interlaced method found in analog CCTV (PAL/NTSC) cameras. With progressive scan all pixels (lines) are captured at the same time, enabling moving images to be presented without distortion.

Power over Ethernet enabled switch

AXIS 211A

Intercom

Cabling requirements and installation costs are reduced by the built-in support for Power over Ethernet and audio, enabling power to the cameras and two-way audio for the AXIS 211A to be delivered over the network.

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