AXIS P13 Network Camera Series

Superb image quality for video surveillance in any environment.

> Superb video quality including HDTV and 5 megapixel

> P-Iris control

> Multiple H.264 video streams

> Digital PTZ and multi-view streaming

> Outdoor-ready models

AXIS P13 Network Camera Series comprises of indoor and outdoor-ready fixed cameras that deliver superb image quality with H.264 compression and are ideal for high-performance surveillance in any indoor or outdoor environment. The megapixel models also deliver HDTV video.

AXIS P13 Series ranges from VGA-resolution cameras to 5-megapixel AXIS P1347 and AXIS P1347-E cameras, which also provide HDTV 1080p video. Most models are available in both indoor and "-E" outdoor-ready versions. The SVGA and megapixel cameras provide wide dynamic range, and day and night functionality for superb image quality in daylight and dark conditions.

The 3- and 5-megapixel cameras also offer the unique and revolutionary P-Iris control, which allows the cameras to precisely control the iris position to optimize depth of field and lens resolution for optimal image sharpness.

All AXIS P13 cameras deliver multiple H.264 and Motion JPEG video streams. H.264 greatly reduces bandwidth and storage needs without compromising image quality. With AXIS P1311, MPEG-4 Part 2 is also supported.

All SVGA and megapixel models have a remote back focus function that enables the focus to be fine-tuned from a computer. The same models also offer digital pan/tilt/zoom, and the 3- and 5-megapixel cameras additionally provide multi-view streaming.

AXIS P13 cameras support Power over Ethernet (PoE) for easy installation. The outdoor-ready models operate using PoE and High PoE in temperatures from -40 °C to 50 °C (-40 °F to 122 °F).

HDTV
NETWORK VIDEO

ONVIF

High-performance indoor/outdoor cameras

AXIS P13 Series offers fixed network cameras suitable for a range of video surveillance applications, including government and industrial buildings, retail environments, airports, railway stations and schools.

Easy installation with focus assistant, remote focus and pixel counter

Setting the focus on all AXIS P13 cameras is made easy with the focus assistant, which indicates with a flashing green LED when an image is in focus after manually adjusting the lens. Additionally, the SVGA and megapixel models offer remote back focus, which allows the focus to be fine-tuned from a computer. The pixel counter further helps the installer verify that the pixel resolution of an object fulfills regulatory or customer requirements, for example, for facial identification.

Digital PTZ and multi-view streaming

The SVGA and megapixel camera models support digital pan/tilt/ zoom, which allows a selected area of interest to be cropped from the full view for viewing or recording, thereby minimizing the bit rate and storage needs. The 3- and 5-megapixel cameras also support multi-view streaming, which allows several cropped view areas to be streamed simultaneously, simulating up to eight virtual cameras.

Outdoor-ready models

AXIS P13-E Network Cameras save installation time and costs since they are ready out of the box for mounting outdoors. The IP66-rated cameras have protection against dust, rain, snow and sunlight, and can operate in temperatures as low as -40 °C (-40 °F). The cameras are powered by Power over Ethernet, which makes installation easy since there is no need for a separate power cable. An integrated dehumidifying membrane eliminates any humidity caught in the camera enclosure during installation. The cameras enable easy mounting of an infrared illuminator under the enclosure. They come with a wall mount bracket, sunshield and an Ethernet cable with a pre-mounted gasket.

Multi-view streaming with AXIS P1346/-E and AXIS P1347/-E Network Cameras

One camera   *Full overview enabling cropped view areas*   *Multiple virtual camera views (up to eight views possible)*

P-Iris control

The 3-megapixel AXIS P1346/-E and the 5-megapixel AXIS P1347/-E cameras feature a new and advanced precise iris control, P-Iris, that sets new image quality standards for fixed cameras. It comprises a special P-Iris lens together with specialized software in the camera to enable the camera to set the best iris position for optimal image contrast, clarity, resolution, and depth of field. Having good depth of field—where objects at different distances from the camera are in focus simultaneously—allows more of a scene to be clearly visible.

P-Iris is especially beneficial for megapixel cameras as it can help the cameras maintain the delivery of crisp, high-resolution images, even in difficult lighting situations. P-Iris uses the same type of connector and cable as the traditional DC-iris control, which is also supported by the 3- and 5-megapixel cameras for backward compatibility.

For more on P-Iris and iris controls, go to:
www.axis.com/corporate/corp/tech_papers.htm

use-IP

www.use-ip.co.uk
01304 827609

Technical Specifications – AXIS P13 Network Camera Series
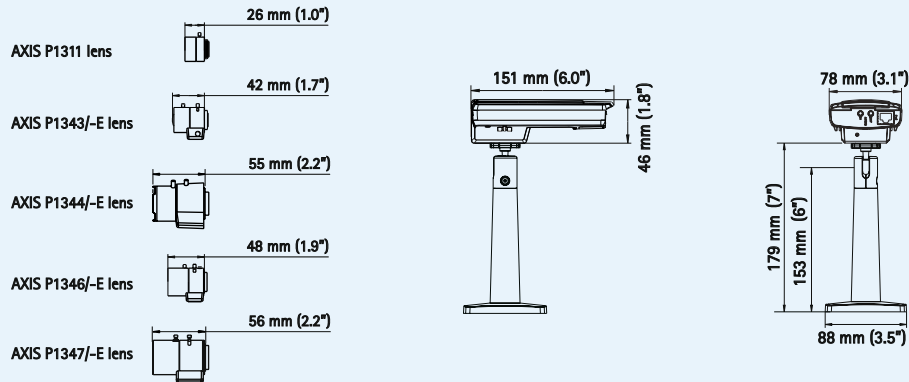
Camera

Models: indoor	AXIS P1311: VGA resolution AXIS P1343: SVGA resolution, day and night AXIS P1344: 1 MP/HDTV 720p, day and night AXIS P1346: 3 MP/HDTV 1080p, day and night AXIS P1347: 5 MP/HDTV 1080p, day and night
Models: outdoor	AXIS P1343-E: SVGA resolution, day and night AXIS P1344-E: 1 MP/HDTV 720p, day and night AXIS P1346-E: 3 MP/HDTV 1080p, day and night AXIS P1347-E: 5 MP/HDTV 1080p, day and night
Image sensor	AXIS P1311: Progressive scan RGB CMOS 1/4" AXIS P1343/-E: Progressive scan RGB CMOS 1/4" AXIS P1344/-E: Progressive scan RGB CMOS 1/4" AXIS P1346/-E, Progressive scan RGB CMOS 1/3" (effective) AXIS P1347/-E: Progressive scan RGB CMOS 1/2.5"
Lens	All AXIS P13 cameras use CS-mount lens AXIS P1311: 4.0 mm: 48° view*, F1.2, fixed iris AXIS P1343/-E: Varifocal 3-8 mm: 59° – 25° view*, F1.4, DC-iris AXIS P1344/-E: Varifocal 3-8 mm: 72° – 28° view*, F1.2, DC-iris AXIS P1346/-E: Varifocal 4-10 mm: 61° – 29° view*, F1.8, P-Iris; DC-iris lenses also supported AXIS P1347/-E: Varifocal 3.5-10 mm: 77° – 28° view*, F1.6, P-Iris; DC-iris lenses also supported *horizontal angle of view
Day and night	AXIS P1343/-E, AXIS P1344/-E, AXIS P1346/-E, AXIS P1347/-E: Automatically removable infrared-cut filter
Minimum illumination	AXIS P1311: Color: 0.6 - 30000 lux, F1.2 AXIS P1343/-E: Color: 0.3 lux, B/W: 0.05 lux, F1.4 AXIS P1344/-E: Color: 0.3 lux, B/W: 0.05 lux, F1.2 AXIS P1346/-E: Color: 0.6 lux, B/W: 0.08 lux, F1.8 AXIS P1347/-E: Color: 0.5 lux, B/W: 0.08 lux, F1.6
Shutter time	AXIS P1311: 1/5000 s to 1/4 s AXIS P1343/-E, AXIS P1344/-E: 1/24500 s to 1/6 s AXIS P1346/-E: 1/35500 s to 1/6 s AXIS P1347/-E: 1/25500 s to 1/6 s

Video

Video compression	AXIS P1311: H.264 (MPEG-4 Part 10/AVC), Motion JPEG, MPEG-4 Part 2 AXIS P1343/-E, AXIS P1344/-E, AXIS P1346/-E, AXIS P1347/-E: H.264 (MPEG-4 Part 10/AVC), Motion JPEG
Resolutions	AXIS P1311: 640x480 (VGA) to 160x120 AXIS P1343/-E: 800x600 (SVGA) to 160x90 AXIS P1344/-E: 1280x800* (1 MP) to 160x90 AXIS P1346/-E: 2048x1536 (3 MP) to 160x90 AXIS P1347/-E: 2560x1920 (5 MP) **to** 160x90 *1440x900 (1.3 MP) scaled resolution available via VAPIX®
Frame rate MPEG-4 Part 2	AXIS P1311: 30 fps in all resolutions
Frame rate H.264/ Motion JPEG	AXIS P1311, AXIS P1343/-E, AXIS P1344/-E: 30 fps in all resolutions AXIS P1346/-E, AXIS P1347/-E: 3 MP mode: 20 fps in all resolutions; HDTV 1080p (1920x1080) mode and 2 MP 4:3 (1600x1200) mode: 30 fps in all resolutions AXIS P1347/-E: 5 MP mode: 12 fps in all resolutions
Video streaming	Multiple, individually configurable streams in H.264 and Motion JPEG (as well as MPEG-4 Part 2 with AXIS P1311) Controllable frame rate and bandwidth VBR/CBR H.264
Multi-view streaming	AXIS P1346/-E: Up to 8 individually cropped out view areas. When streaming 5 view areas in VGA resolution, the rate is 20 fps per stream in H.264/Motion JPEG (3 MP capture mode) AXIS P1347/-E: Up to 8 individually cropped out view areas. When streaming 4 view areas in VGA resolution, the rate is 12 fps per stream in H.264/Motion JPEG (5 MP capture mode)
Pan/Tilt/Zoom	AXIS P1343/-E, AXIS P1344/-E, AXIS P1346/-E, AXIS P1347/-E: Digital PTZ, preset positions, guard tour
Image settings	Compression, color, brightness, sharpness, contrast, white balance, exposure control, exposure zones, backlight compensation, fine tuning of behavior at low light, rotation Text and image overlay, privacy mask AXIS P1343/P1344/P1346/P1347: Corridor Format™ AXIS P1343/-E, AXIS P1344/-E, AXIS P1346/-E, AXIS P1347/-E: Wide dynamic range - dynamic contrast, mirroring of images

Audio

Audio streaming	Two-way
Audio compression	AAC LC 8/16 kHz, G.711 PCM 8 kHz, G.726 ADPCM 8 kHz Configurable bit rate
Audio input/ output	External microphone input or line input, line output AXIS P1311/P1343/P1344/P1346/P1347: Built-in microphone

Network

Security	Password protection, IP address filtering, digest authentication, HTTPS encryption**, IEEE 802.1X network access control**, user access log
Supported protocols	IPv4/v6, HTTP, HTTPS**, QoS Layer 3 DiffServ, FTP, SMTP, Bonjour, UPnP, SNMPv1/v2c/v3(MIB-II), DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP, ARP, SOCKS

System integration

Application Programming Interface	Open API for software integration, including VAPIX® from Axis Communications, available at www.axis.com ONVIF, specification available at www.onvif.org AXIS Video Hosting System (AVHS) with One-Click Camera connection AXIS P1343/-E, AXIS P1344/-E, AXIS P1346/-E, AXIS P1347/-E: API also includes AXIS Camera Application Platform
Intelligent video	Video motion detection, active tampering alarm, audio detection AXIS P1343/-E, AXIS P1344/-E, AXIS P1346/-E, AXIS P1347/-E: AXIS Camera Application Platform
Alarm triggers	Intelligent video, external input
Alarm events	File upload via FTP, HTTP and email; notification via email, HTTP and TCP; external output activation; video and audio recording to local storage; pre- and post-alarm video buffering
Installation aids	Focus assistant, pixel counter AXIS P1343/-E, AXIS P1344/-E, AXIS P1346/-E, AXIS P1347/-E: Remote back focus

General

Casing	Camera: Metal (zinc) AXIS P1343-E/P1344-E/P1346-E/P1347-E: IP66- and NEMA 4X-rated, IK10 impact-resistant aluminum enclosure Color: white NCS S 1002-B
Processor and memory	AXIS P1311: ARTPEC-B, 64 MB RAM, 32 MB Flash AXIS P1343/-E, AXIS P1344/-E: ARTPEC-3, 128 MB RAM, 128 MB Flash AXIS P1346/-E, AXIS P1347/-E: ARTPEC-3, 256 MB RAM, 128 MB Flash
Power	AXIS P1311/P1343/P1344/P1346/P1347: 8-20 V DC or Power over Ethernet (PoE) IEEE 802.3af AXIS P1311: max. 2.8 W, PoE Class 1 AXIS P1343/P1344: max. 6.4 W, PoE Class 2 AXIS P1346: max. 9.6 W, PoE Class 3 AXIS P1347: max. 9.0 W, PoE Class 3 AXIS P1343-E/P1344-E/P1346-E/P1347-E: PoE IEEE 802.3af max. 12.95 W or High PoE max 25.5 W
Connectors	RJ-45 10BASE-T/100BASE-TX PoE 3.5 mm mic/line in, 3.5 mm line out Terminal blocks for power, 1 alarm input and 1 output
Local storage	SD/SDHC memory card slot (card not included)
Operating conditions	AXIS P1311/P1343/P1344/P1346/P1347: Humidity 20 - 80% RH (non-condensing) AXIS P1311: -10 ºC to 55 ºC (14 ºF to 131 ºF) AXIS P1343/P1344/P1346/P1347: 0 ºC to 50 ºC (32 ºF to 122 ºF) AXIS P1343-E/P1344-E/P1346-E/P1347-E: -30 ºC to 50 ºC (-22 ºF to 122 ºF) with PoE; down to -40 ºC (-40 ºF) with High PoE
Approvals	EN 55022 Class B, EN 61000-3-2, EN 61000-3-3, EN 55024, FCC Part 15 Subpart B Class B, ICES-003 Class B, VCCI Class B, C-tick AS/NZS CISPR 22, EN 60950-1 AXIS P1346/-E: KCC Class B AXIS P1343-E/P1344-E/P1346-E/P1347-E: IEC 60529 IP66, NEMA 250 Type 4X, IEC 62262 IK10
Weight	AXIS P1311/P1343/P1344/P1346/P1347: 0.6 kg (1.3 lb.) AXIS P1343-E/P1344-E/P1346-E/P1347-E: 3.1 kg (6.8 lb.)
Included accessories	Stand, connector kit, Installation Guide, CD with installation tools, recording software and User's Manual, Windows decoder 1-user license AXIS P1343-E/P1344-E/P1346-E/P1347-E: Wall mount bracket, sunshield, 5 m (16 ft.) Ethernet cable with a pre-mounted gasket

** This product includes software developed by the OpenSSL
Project for use in the OpenSSL Toolkit. (www.openssl.org)

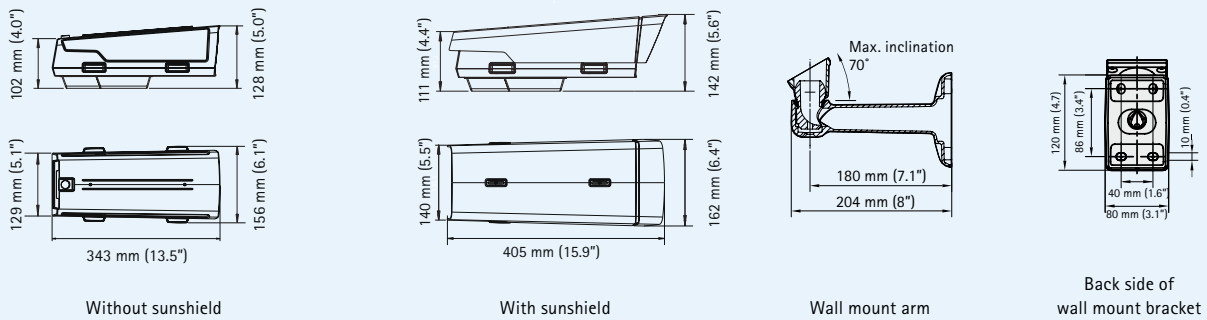**More information is available at www.axis.com**

Dimensions: AXIS P13 Network Cameras

AXIS P1311 lens — 26 mm (1.0")

AXIS P1343/-E lens — 42 mm (1.7")

AXIS P1344/-E lens — 55 mm (2.2")

AXIS P1346/-E lens — 48 mm (1.9")

AXIS P1347/-E lens — 56 mm (2.2")

151 mm (6.0") — 46 mm (1.8")

78 mm (3.1") — 179 mm (7") — 153 mm (6") — 88 mm (3.5")

Dimensions: AXIS P13-E Network Cameras and wall mount bracket with internal cable channel

102 mm (4.0") — 128 mm (5.0")
129 mm (5.1") — 156 mm (6.1")
343 mm (13.5")

Without sunshield

111 mm (4.4") — 142 mm (5.6")
140 mm (5.5") — 162 mm (6.4")
405 mm (15.9")

With sunshield

Max. inclination 70°
180 mm (7.1")
204 mm (8")

Wall mount arm

120 mm (4.7") — 86 mm (3.4") — 10 mm (0.4")
40 mm (1.6")
80 mm (3.1")

Back side of wall mount bracket

Optional accessories

AXIS PoE Midspan 1-port

AXIS T8123 High PoE 30 W Midspan 1-port

AXIS T90A Illuminators

Lenses

AXIS T8412 Installation Display

For information on AXIS Camera Station and video management software from Axis' Application Development Partners, see www.axis.com/products/video/software/

Optional mounting accessories for outdoor models

Wall bracket accessories

Adapter plate

Pole mount

Corner mount

Ceiling brackets with ball joint

Column mount with ball joint

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COMMUNICATIONS