

Axis Optional Lenses

Lenses for special surveillance demands



- > Tested and approved for Axis cameras
- > Extended surveillance possibilities
- > Excellent image quality maintained

Axis network cameras are equipped with carefully selected lenses to provide the best possible performance and durability. Axis also offers various optional lenses for adverse circumstances or for meeting special surveillance requirements.

Natural obstacles, adverse conditions, or the need for semi-covert surveillance can place extraordinary demands on surveillance equipment. Axis therefore supplies a range of tested and approved optional lenses for meeting requirements on wide angle viewing, magnification, and reduction of barrel distortion.

Axis optional lenses are available for network cameras with M12 mounts or CS mounts.

Axis offers lenses for both megapixel cameras and day-and-night cameras, thus extending surveillance possibilities whilst maintaining excellent image quality.



Considerations to take into account when replacing a lens

Field of view

The field of view is the area of coverage and the degree of detail to be viewed. The field of view is determined by the focal length of the lens and the size of the image sensor.

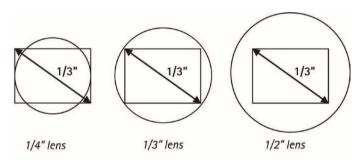
The longer the focal length, the narrower the field of view. The fastest way to find out what focal length lens is required for a desired field of view is to use a rotating lens calculator or an online lens calculator, both of which are available from Axis Communications:

www.axis.com/techsup/cam_servers/lens_calculators/index.htm

Matching lens and sensor

If a network camera offers an exchangeable lens, it is important to select a lens suitable for the camera. If a lens is made for a smaller image sensor than the one that is actually fitted inside the camera, the image will have black corners (see left-hand illustration below). If a lens is made for a larger image sensor than the one that is actually fitted inside the camera, the field of view will be smaller than the lens' capability since part of the information will be "lost" outside the image sensor (see right-hand illustration).

Examples of different lenses mounted onto a 1/3-inch image sensor.



When replacing a lens on a megapixel camera, a high quality lens is required since megapixel sensors have pixels that are much smaller than those on a VGA sensor (640x480 pixels). It is best to match the lens resolution to the camera resolution in order to fully use the camera's capability.

Lens mount standards

When changing a lens, it is also important to know what type of lens mount the network camera has. There are three main standards used on network cameras:

- > CS-mount
- > C-mount
- > M12-mount

If it is impossible to focus a camera, it is likely that the wrong type of lens is used.

F-number and exposure

In low-light situations, particularly in indoor environments, an important factor to look for in a network camera is the lens' light-gathering ability. This can be determined by the lens' f-number, also known as f-stop. An f-number defines how much light can pass through a lens.

The smaller the f-number the better the lens' light gathering ability; i.e. more light can pass through the lens to the image sensor. In low-light situations, a smaller f-number generally produces a better image quality. A higher f-number, on the other hand, increases the depth of field.

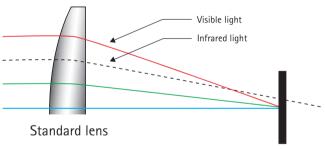
Fixed or adjustable iris

An iris is used to maintain the optimum light level to the image sensor so that images can be sharp, clear and correctly exposed with good contrast and resolution. If the network camera has been designed with an iris control, the lens needs also to match the same specification. Iris control can be fixed or adjustable. More details on the type of iris control (fixed, manual, auto iris or P-Iris) can be found here:

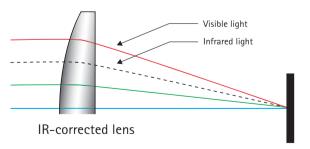
www.axis.com/products/video/camera/about cameras/iris.htm

IR corrected lens

IR-corrected lenses are not very beneficial for cameras that do not have a removable infrared-cut filter. This is used to filter out infrared (IR) light so that it does not distort the colors of images as the human eye sees them. However, day/night cameras—used mostly for outdoor applications or in areas with poor lighting—can greatly benefit from IR-corrected lenses. Day/night cameras automatically remove an IR-cut filter in low-light conditions to take advantage of invisible, near-infrared light. Since the wavelength of IR light differs from visible light, the focus point of IR light will differ from the focus point of visible light. Consequently, when the focus is set during daytime, the picture will not be in focus at nighttime when using IR light.



The problem can be rectified by using IR-corrected lens, which focuses both the visible and the infrared light in the same vertical plane.



For more information, see www.axis.com/products/video/camera/about_cameras/lens.htm



Technical specifications – Axis Optional Lenses

Megapixel Lens 2.8 mm (5	502-101)
Description	Megapixel lens
Mount	M12 mount
Focal length	2.8 mm
Aperture	F 2.6
Sensor format & horizontal angle of view	1/4" sensor: 78° (AXIS M3011) 1/4" sensor: 84° (AXIS M3014, M3114-R) 1/4" sensor: 68° (AXIS M3113-R)
Supported cameras	AXIS M3011, AXIS M3014, AXIS M3113-R, AXIS M3114-R
Dimensions (L x Ø)	16 x 14 mm (0.6" x 0.5")
Megapixel Lens 3.6 mm (5	502-151)
Description	Megapixel lens
Mount	M12 mount
Focal length	3.6 mm
Aperture	F 1.8
Sensor format & horizontal angle of view	1/4" sensor: 56" (AXIS M3011) 1/4" sensor: 62" (AXIS M3014, M3114-R) 1/4" sensor: 49" (AXIS M3113-R)
Supported cameras	AXIS M3011, AXIS M3014, AXIS M3113-R, AXIS M3114-R
Dimensions (L x Ø)	17 x 14 mm (0.7" x 0.5")
Megapixel Lens 6 mm (550	02-111)
Description	Megapixel lens
Mount	M12 mount
Focal length	6 mm
Aperture	F 2.0
Sensor format & horizontal angle of view	1/4" sensor: 34* (AXIS M3011) 1/4" sensor: 38* (AXIS M3014, M3114-R) 1/4" sensor: 30* (AXIS M3113-R)
Supported cameras	AXIS M3011, AXIS M3014, AXIS M3113-R, AXIS M3114-R
Dimensions (L x Ø)	17 x 14 mm (0.7" x 0.5")
Megapixel Lens 6 mm (550	3-651)
Description	Megapixel lens, fixed iris
Mount	M12 mount
Focal length	6 mm
Aperture	F 1.6
Sensor format & horizontal angle of view	1/4" sensor: 35° (AXIS M3004-V) 1/2.7" sensor: 54° (AXIS M3005-V)
Supported cameras	AXIS M3004-V, AXIS M3005-V
Dimensions (L x Ø)	18 x 14 mm (0.7" x 0.5")
Megapixel Lens 8 mm (550	02-411)
Description	Megapixel lens for optional angle view
Mount	M12 mount
Focal length	8 mm
Aperture	F 1.8
Sensor format & horizontal angle of view	1/4" sensor: 26" (AXIS M3011) 1/4" sensor: 28" (AXIS M3014, M3114-R) 1/4" sensor: 23" (AXIS M3113-R)
Supported cameras	AXIS M3011, AXIS M3014, AXIS M3113-R, AXIS M3114-R
Dimensions (L x Ø)	17.4 x 14 mm (0.7" x 0.5")

Megapixel Lens 16 mm (55	502-161)
Description	Megapixel lens
Mount	M12 mount
Focal length	16 mm
Aperture	F 1.8
Sensor format & horizontal angle of view	1/4" sensor: 12* (AXIS M3011) 1/4" sensor: 13* (AXIS M3014, M3114-R) 1/4" sensor: 10* (AXIS M3113-R)
Supported cameras	AXIS M3011, AXIS M3014, AXIS M3113-R, AXIS M3114-R
Dimensions (L x Ø)	16 x 14 mm (0.6" x 0.5")
Manual iris Varifocal Lens	2.4 – 6 mm (5503-181)
Description	Against flickering in fluorescent illumination
Mount	CS mount
Focal length	2.4 - 6 mm
Aperture	F 1.6
Sensor format & horizontal angle of view	1/4" sensor: 70° - 30° (AXIS M1103) 1/4" sensor: 81° - 35° (AXIS M1104)
Supported cameras	AXIS M1103, AXIS M1104
Dimensions (L x Ø)	37.1 x 32.5 mm (1.5" x 1.3")
Evatar Fixed iris Megapixe	el Lens 16 mm (5502-741)
Description	High-definition megapixel lens
Mount	CS mount
Focal length	16 mm
Aperture	F 1.8
Sensor format & horizontal angle of view	1/4" sensor: 12° (AXIS M1103) 1/4" sensor: 15° (AXIS M1104)
Supported cameras	AXIS M1103, AXIS M1104
Dimensions (L x Ø)	15 x 30 mm (0.6" x 1.2")
Fujinon Varifocal Megapix	el Lens 2.2 – 6 mm (5502-751)
Description	DC iris lens with wider viewing angle
Mount	CS mount
Focal length	2.2 - 6 mm
Aperture	F 1.3
Sensor format & horizontal angle of view	1/4" sensor: 84° - 32° (AXIS M1113/-E) 1/4" sensor: 100° - 40° (AXIS M1114/-E)
Supported cameras	AXIS M1113/-E, AXIS M1114/-E
Dimensions (L x Ø)	54 x 38 mm (2.1" x 1.5")
Fujinon Varifocal Megapix	el Lens 15 – 50 mm (5502-761)
Description	For accurate and detailed information acquisition
Mount	CS mount
Focal length	15 - 50 mm
Aperture	F 1.5
Sensor format & horizontal angle of view	1/4" sensor: 15° – 4° (AXIS M1113/–E) 1/4" sensor: 21° – 5° (AXIS M1114/–E)
Supported cameras	AXIS M1113/-E, AXIS M1114/-E
Dimensions (L x Ø)	59 x 38 mm (2.3" x 1.5")



Technical specifications – Axis Optional Lenses

Varifocal Lens 10 – 40 mm	D/N (5502-121)
Description	Day and night telephoto lens for high quality images. IR corrected lens
Mount	CS mount
Focal length	10 – 40 mm
Aperture	F 1.4
Sensor format &	1/3" sensor: 32° – 13°
horizontal angle of view*	*Angle of view may vary depending on camera model
Supported cameras	AXIS 221
Dimensions (LxHxW)	66 x 54 x 43 mm (2.6" x 2.1" x 1.7")
Theia Fixedfocal Megapixe	l Lens 1.7 mm (5502-451)
Description	Wide angle lens without barrel distortion. IR corrected lens
Mount	CS mount
Focal length	1.7 mm
Aperture	F 1.8
Sensor format & horizontal angle of view	1/4" sensor: 99°
Supported cameras	AXIS P1343/-E, AXIS P1344/-E
Dimensions (L x Ø)	56 x 33 mm (2.2" x 1.3")
Varifocal Megapixel Lens	
Description	Megapixel lens with wide angle to see it all
Mount	CS mount
Focal length	2.4 – 6 mm
Aperture	F 1.2
Sensor format & horizontal angle of view*	1/4" sensor: 95° – 38° *Angle of view may vary depending on camera model
Supported cameras	AXIS P1344 , AXIS P1344-E
Dimensions (LxHxW)	62 x 55 x 44 mm (2.4" x 2.1" x 1.7")
	el Lens 5 – 50 mm (5502-221)
Description	Extensive field of view
Mount	CS mount
Focal length	5 - 50 mm
Aperture	F 1.4
Sensor format & horizontal angle of view	1/4" sensor: 44° - 5°
Supported cameras	AXIS P1344 , AXIS P1344-E
Dimensions (L x Ø)	60 x 40 mm (2.3" x 1.6")
Kowa Varifocal Lens 9 – 20	
Description	Multi-megapixel varifocal P-Iris lens designed for day & night. IR corrected lens
Mount	CS mount
Focal length	9 – 20 mm
Aperture	F 1.6
Sensor format & horizontal angle of view	1/3" sensor (effective): 13° – 28° 1/2.5" sensor: 35° – 17°
Supported cameras	AXIS P1346/-E, AXIS P1347/-E
Dimensions (L x Ø)	69 x 37 mm (2.7" x 1.4")

Theia Varifocal Ultra Wide	Lens 1.8 – 3.0 mm (5503-161)
Description	Designed for ultra wide field of view
Mount	CS mount
Focal length	1.8 – 3.0 mm
Aperture	F 1.8
Sensor format & horizontal angle of view	1/4" sensor: 83° – 56° (AXIS P1343/-E) 1/4" sensor: 94° – 65° (AXIS P1344/-E) 1/3" sensor: 103° – 74° (AXIS P1346/-E) 1/3" sensor: 106° – 77° (AXIS Q1602/-E, AXIS Q1604/- 1/2.5" sensor: 115° – 86° (AXIS P1347/-E)
Supported cameras	AXIS P1343/-E, AXIS P1344/-E, AXIS P1346/-E, AXIS P1347/-E, AXIS Q1602/-E, AXIS Q1604/-E
Dimensions (L x Ø)	49.3* x 15.6 mm (1.9" x 0.6") *Depending on zoom position
Theia Varifocal Telephoto	Lens 9 – 40 mm (5503-171)
Description	Telephoto lens for objects far away
Mount	CS mount
Focal length	9 – 40 mm
Aperture	F 1.5
Sensor format & horizontal angle of view	1/3" sensor: 30° – 7° 1/2.5" sensor: 30° – 7°
Supported cameras	AXIS P1346/-E, AXIS P1347/-E
Dimensions (L x Ø)	49.3 x 25.5 mm (1.9" x 1")
Fujinon Varifocal Lens 15	- 50 mm (5503-421)
Description	Designed for high sensitivity cameras to maximize
	optical performance
Mount	
Mount Focal length	optical performance
	optical performance CS mount
Focal length	optical performance CS mount 15 – 50 mm
Focal length Aperture Sensor format &	optical performance CS mount 15 – 50 mm F 1.5 1/4" sensor: 12* – 4* (AXIS P1343/–E) 1/4" sensor: 14* – 5* (AXIS P1344/–E) 1/4" sensor: 17* – 5* (AXIS P1346/–E) 1/3" sensor: 18* – 5* (AXIS Q1602/–E)
Focal length Aperture Sensor format & horizontal angle of view	optical performance CS mount 15 – 50 mm F 1.5 1/4" sensor: 12* – 4* (AXIS P1343/–E) 1/4" sensor: 14* – 5* (AXIS P1344/–E) 1/4" sensor: 17* – 5* (AXIS P1346/–E) 1/3" sensor: 18* – 5* (AXIS Q1602/–E) 1/3" sensor: 19* – 5* (AXIS Q1604/–E) AXIS P1343/–E, AXIS P1344/–E, AXIS P1346/–E,
Focal length Aperture Sensor format & horizontal angle of view Supported cameras	optical performance CS mount 15 – 50 mm F 1.5 1/4" sensor: 12* – 4* (AXIS P1343/–E) 1/4" sensor: 14* – 5* (AXIS P1344/–E) 1/4" sensor: 17* – 5* (AXIS P1346/–E) 1/3" sensor: 18* – 5* (AXIS Q1602/–E) 1/3" sensor: 19* – 5* (AXIS Q1604/–E) AXIS P1343/–E, AXIS P1344/–E, AXIS P1346/–E, AXIS Q1602/–E, AXIS Q1604/–E 58.5 x 37.5 mm (2.3" x 1.5")
Focal length Aperture Sensor format & horizontal angle of view Supported cameras Dimensions (L x Ø)	optical performance CS mount 15 – 50 mm F 1.5 1/4" sensor: 12* – 4* (AXIS P1343/–E) 1/4" sensor: 14* – 5* (AXIS P1344/–E) 1/4" sensor: 17* – 5* (AXIS P1346/–E) 1/3" sensor: 18* – 5* (AXIS Q1602/–E) 1/3" sensor: 19* – 5* (AXIS Q1604/–E) AXIS P1343/–E, AXIS P1344/–E, AXIS P1346/–E, AXIS Q1602/–E, AXIS Q1604/–E 58.5 x 37.5 mm (2.3" x 1.5")
Focal length Aperture Sensor format & horizontal angle of view Supported cameras Dimensions (L x Ø) Raynox Conversion Lens 0.	optical performance CS mount 15 – 50 mm F 1.5 1/4" sensor: 12* – 4* (AXIS P1343/–E) 1/4" sensor: 14* – 5* (AXIS P1344/–E) 1/4" sensor: 17* – 5* (AXIS P1346/–E) 1/3" sensor: 18* – 5* (AXIS 01602/–E) 1/3" sensor: 19* – 5* (AXIS 01604/–E) AXIS P1343/–E, AXIS P1344/–E, AXIS P1346/–E, AXIS Q1602/–E, AXIS Q1604/–E 58.5 x 37.5 mm (2.3" x 1.5") 5x zoom (5500–501)
Focal length Aperture Sensor format & horizontal angle of view Supported cameras Dimensions (L x Ø) Raynox Conversion Lens O. Description	optical performance CS mount 15 – 50 mm F 1.5 1/4" sensor: 12* – 4* (AXIS P1343/–E) 1/4" sensor: 14* – 5* (AXIS P1344/–E) 1/4" sensor: 17* – 5* (AXIS P1346/–E) 1/3" sensor: 18* – 5* (AXIS D1346/–E) 1/3" sensor: 18* – 5* (AXIS D1602/–E) 1/3" sensor: 19* – 5* (AXIS D1604/–E) AXIS P1343/–E, AXIS P1344/–E, AXIS P1346/–E, AXIS Q1602/–E, AXIS Q1604/–E 58.5 x 37.5 mm (2.3" x 1.5") 5x zoom (5500–501) Wide angle conversion lens
Focal length Aperture Sensor format & horizontal angle of view Supported cameras Dimensions (L x Ø) Raynox Conversion Lens O. Description Mount	optical performance CS mount 15 – 50 mm F 1.5 1/4" sensor: 12* – 4* (AXIS P1343/–E) 1/4" sensor: 14* – 5* (AXIS P1344/–E) 1/4" sensor: 17* – 5* (AXIS P1346/–E) 1/3" sensor: 18* – 5* (AXIS D1346/–E) 1/3" sensor: 18* – 5* (AXIS D1602/–E) 1/3" sensor: 19* – 5* (AXIS D1604/–E) AXIS P1343/–E, AXIS P1344/–E, AXIS P1346/–E, AXIS Q1602/–E, AXIS Q1604/–E 58.5 x 37.5 mm (2.3" x 1.5") 5x zoom (5500–501) Wide angle conversion lens M37 mount
Focal length Aperture Sensor format & horizontal angle of view Supported cameras Dimensions (L x Ø) Raynox Conversion Lens O. Description Mount Zoom Supported cameras Dimensions (L x Ø)	optical performance CS mount 15 – 50 mm F 1.5 1/4" sensor: 12* – 4* (AXIS P1343/–E) 1/4" sensor: 14* – 5* (AXIS P1344/–E) 1/4" sensor: 17* – 5* (AXIS P1346/–E) 1/3" sensor: 18* – 5* (AXIS 01602/–E) 1/3" sensor: 19* – 5* (AXIS 01602/–E) 4XIS P1343/–E, AXIS P1344/–E, AXIS P1346/–E, AXIS Q1602/–E, AXIS Q1604/–E 58.5 x 37.5 mm (2.3" x 1.5") 5x zoom (5500–501) Wide angle conversion lens M37 mount 0.5x AXIS Q1755 40 x 62 mm (1.6" x 2.4")
Focal length Aperture Sensor format & horizontal angle of view Supported cameras Dimensions (L x Ø) Raynox Conversion Lens O. Description Mount Zoom Supported cameras	optical performance CS mount 15 – 50 mm F 1.5 1/4" sensor: 12* – 4* (AXIS P1343/–E) 1/4" sensor: 14* – 5* (AXIS P1344/–E) 1/4" sensor: 17* – 5* (AXIS P1346/–E) 1/3" sensor: 18* – 5* (AXIS 01602/–E) 1/3" sensor: 19* – 5* (AXIS 01602/–E) 1/3" sensor: 19* – 5* (AXIS 01604/–E) AXIS P1343/–E, AXIS P1344/–E, AXIS P1346/–E, AXIS 01602/–E, AXIS 01604/–E 58.5 x 37.5 mm (2.3" x 1.5") 5x zoom (5500–501) Wide angle conversion lens M37 mount 0.5x AXIS 01755 40 x 62 mm (1.6" x 2.4")
Focal length Aperture Sensor format & horizontal angle of view Supported cameras Dimensions (L x Ø) Raynox Conversion Lens O. Description Mount Zoom Supported cameras Dimensions (L x Ø)	optical performance CS mount 15 – 50 mm F 1.5 1/4" sensor: 12* – 4* (AXIS P1343/–E) 1/4" sensor: 14* – 5* (AXIS P1344/–E) 1/4" sensor: 17* – 5* (AXIS P1346/–E) 1/3" sensor: 18* – 5* (AXIS 01602/–E) 1/3" sensor: 19* – 5* (AXIS 01602/–E) 1/3" sensor: 19* – 5* (AXIS 01604/–E) AXIS P1343/–E, AXIS P1344/–E, AXIS P1346/–E, AXIS 01602/–E, AXIS 01604/–E 58.5 x 37.5 mm (2.3" x 1.5") 5x zoom (5500–501) Wide angle conversion lens M37 mount 0.5x AXIS 01755 40 x 62 mm (1.6" x 2.4")
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Focal length Aperture Sensor format & horizontal angle of view Supported cameras Dimensions (L x Ø) Raynox Conversion Lens O. Description Mount Zoom Supported cameras Dimensions (L x Ø) Raynox Conversion Lens 2. Description Mount Zoom Sensor format &	optical performance CS mount 15 – 50 mm F 1.5 1/4" sensor: 12* – 4* (AXIS P1343/–E) 1/4" sensor: 14* – 5* (AXIS P1344/–E) 1/4" sensor: 17* – 5* (AXIS P1346/–E) 1/3" sensor: 18* – 5* (AXIS Q1602/–E) 1/3" sensor: 19* – 5* (AXIS Q1604/–E) AXIS P1343/–E, AXIS P1344/–E, AXIS P1346/–E, AXIS Q1602/–E, AXIS Q1604/–E 58.5 x 37.5 mm (2.3" x 1.5") 5x zoom (5500–501) Wide angle conversion lens M37 mount 0.5x AXIS Q1755 40 x 62 mm (1.6" x 2.4") 2x zoom (5500–511) High-Definition telephoto conversion lens M37 mount 2.2x

More information is available at www.axis.com/accessories

