



## **PRODUCT INTRODUCTION - DISTRIBUTION**

**NETWORK CAMERA**

**AXIS Q16 Series**

**AXIS Q1614/-E**

**AXIS Q1604/-E**

**AXIS Q1602/-E**



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**Rev: 1.2**

# 1 Product information

## 1.1 General description

AXIS Q16 Network Camera Series offers fixed cameras suitable for a wide range of video surveillance applications, such as governmental and industrial buildings, retail environments, airports, railway stations, production lines, schools, university campuses, parks and pedestrian zones. AXIS Q16 Network Camera Series can be used indoors and are also available as an outdoor model, AXIS Q16-E Network Cameras.

## 1.2 Key features

- **Wide Dynamic Range – Dynamic Capture**  
Wide Dynamic Range - dynamic capture acquires several images at different exposure times. The result is an image with a homogenous clarity and sharpness, which avoid too dark and too bright areas. The wide dynamic range – dynamic capture (>100 dB) capabilities will be especially beneficial in those environments where backlight or intense contrasts are an issue. WDR enables the capture and display of both bright and dark areas, in a way that there are details in both areas, i.e. bright areas are not saturated, and dark areas are not too dark.
- **Outstanding light sensitivity with Axis' Lightfinder technology**  
AXIS Q1602/-E and AXIS Q1614/-E incorporate a new and revolutionary technology by Axis, called Lightfinder. The Lightfinder technology incorporates a CMOS sensor with exceptional light sensitivity. However, this technology is much more than just the sensor. As per Axis' proven image processing, already used in all its network video products, the elaborate software sets the degree of filtering and sharpening to give the best image quality possible. The outstanding performance in low light is the result of well-founded decisions regarding the sensor and lens combined with carefully tuned image processing. Compared with any analog or network cameras, the Lightfinder technology will give more life-like colors, in low-light conditions. The noise reduction of the Lightfinder technology is vastly improved compared with any surveillance camera on the market, which in combination with the light sensitivity of the sensor gives a superior image quality.
- **Superb video quality including HDTV quality**  
Models are available offering superb image quality in progressive scan either in extended D1 (768x576) resolution (AXIS Q1602/-E) or 1 MP (AXIS Q1604/-E and AXIS Q1614/-E) resolution. In addition, AXIS Q1614/-E offer outstanding HDTV video streaming in 720p in 50/60 fps.  
AXIS Q1604/-E and AXIS Q1614/-E are capable of streaming HDTV video complying with the SMPTE (Society of Motion Picture and Television Engineers) HDTV standards in resolution, colour representation and frame rate.
- **Easy installation capabilities with new innovative features**  
The focus assistant indicates when the image is in focus by the flashing front LED of the camera. Having performed rough focusing at the lens, the remote back focus capability of the AXIS Q16 Network Cameras is conveniently used for fine tuning focus. The unique pixel counter ensures that the viewing angle is optimized for the monitored area and required pixel resolution. It allows the installer to easily verify that the camera installation fulfils regulatory or specific customer requirements on pixel resolution, e.g. the face of persons passing a doorway monitored by the camera. Furthermore, AXIS Q1614/-E support built-in installation

features, such as leveling assistance that guides the installation to the correct level. And the auto rotation flips the image to the right orientation, also when Corridor Format is used.

- **Adjustable high-sensitive shock detection**  
In AXIS Q1614/-E an intelligent shock detection with adjustable sensitivity can send an alarm to personnel or play an audio clip during attempted vandalism.
- **P-Iris control**  
AXIS Q16 Series supports the unique and revolutionary P-Iris control, which allows the camera to precisely control the exact position of the iris. The iris opening is optimized for depth of field, lens resolution and light inlet, resulting in superb image quality with optimal sharpness. Note that AXIS Q1602/-E cameras are shipped with a DC-iris lens and not a P-Iris lens.
- **Multiple H.264 and Motion JPEG video streams**  
AXIS Q1604/-E and AXIS Q1614/-E Network Cameras can provide several independent H.264 streams for different quality needs and bandwidth constraints; e.g. live viewing in highest quality and full frame rate, simultaneously delivering a video stream configured for optimized storage, optionally at a lower resolution or frame rate, or a higher compression level. Motion JPEG images can be provided simultaneously for easy extraction of high-quality still images.
- **Enhanced compression with H.264 Main Profile**  
The Main Profile compression provided by AXIS Q16 Network Cameras compresses the video even better – resulting in up to 20% reduced bitrate and storage compared to Baseline, at maintained image quality level.
- **Corridor Format**  
Axis' Corridor Format allows getting a vertically oriented, "portrait"-shaped video stream from the camera. The video is adapted perfectly to the monitored area, maximizing image quality while eliminating bandwidth and storage waste. The result is a high-quality, vertically oriented video stream that is optimized for this type of application.
- **Power over Ethernet**  
AXIS Q16 Series supports Power over Ethernet (IEEE 802.3af), reducing installation costs by eliminating the need for power cables.
- **Edge storage**  
AXIS Q16 Series offers an memory card slot for optional local storage of video and support for recording to network share (Network Attached Storage or file server).
- **Individual 50Hz and 60Hz capture mode**  
Two new capture modes are supported in AXIS Q1604/-E and AXIS Q1614/-E for optimized flicker reduction in all regions. The cameras deliver 25 fps in 50 Hz capture mode and 30 fps in 60 Hz capture mode.
- **Two-way audio**  
Two-way audio support allows remote users to listen in on an area and communicate with visitors or intruders. External microphone is required for the outdoor models of AXIS Q16 cameras (AXIS Q1602-E, AXIS Q1604-E and AXIS Q1614-E).

- ***Intelligent video capabilities***  
AXIS Q16 Series includes intelligent capabilities such as video motion detection, audio detection and detection of camera tampering attempts like blocking, spray-painting or defocusing. The cameras also provide capacity for third party analytics modules.
- ***Powerful Application Programming Interface (API)***  
Axis network cameras offer powerful programming interfaces for efficient system integration.
- ***Advanced security and network management***  
Axis network cameras offer the market's most comprehensive set of network capabilities, optimising the network video solution for security, efficiency and manageability. This includes support for features such as HTTPS encryption with maintained performance, IPv6 and Quality of Service.
- ***Outdoor-ready***  
AXIS Q1602-E, AXIS Q1604-E and AXIS Q1614-E Network Cameras are designed for demanding indoor and outdoor environments. It has built in heater, fan and a removable sunshield allowing the cameras to be used in temperatures ranging from -30 °C to 50 °C in standard PoE (802.3af) and down to -40 °C using High PoE.
- ***Easy outdoor installation***  
AXIS Q16-E Network Cameras come with a wall bracket and is ready for outdoor installation.
- ***IP66-rated protection from dust and water***  
The outdoor models have IP66 rating, which means they are dust tight and offers protection against high-pressure water jets.
- ***NEMA 4X-rated protection from dust and water and corrosion***  
AXIS Q16-E Network Cameras have NEMA 4X rating, which means it is dust tight and offers protection against high-pressure water jets and is designed to avoid corrosion.
- ***IK10-rated protection from impacts***  
AXIS Q16-E Network Cameras have IK10-rated protection, which means it has good impact protection.
- ***Arctic Temperature Control***  
Axis' unique Arctic Temperature Control to pre-heat the camera module for securing start up even at very low temperatures following a power failure.
- ***Robust and deterrent design***  
AXIS Q16-E Network Cameras are fix cameras with a robust, IP66- and IK10-rated metal casing designed for effective deterrence.

### 1.3 Unique selling points

This section describes the key features that can be considered as unique selling points.

- ***Wide Dynamic Range – dynamic capture***
- ***Outstanding light sensitivity with Axis' Lightfinder technology***
- ***Outstanding video in HDTV 720p @ 60fps (AXIS Q1614/-E)***
- ***Innovative installation features such as auto rotation, pixel counter, leveling and focus assistance, remote back focus (model depending)***
- ***Adjustable high-sensitive shock detection (AXIS Q1614/-E)***

- *Serial communication port (AXIS Q1614/-E)*
- *I/O ports with 12 V DC output (AXIS Q1614/-E)*

## **1.4 Key applications**

AXIS Q1604/-E and AXIS Q1614/-E Network Cameras are ideal in any high variation of lighting conditions, either indoor or outdoor, where there is a need to have good images and video in applications such as tunnel passages, entrances and buildings with large blinding windows. AXIS Q1602/-E and AXIS Q1614/-E Network Cameras are the perfect choice for applications where light is limited such as surveillance of construction sites, city surveillance, parking lots, perimeters, parks and pedestrian zones and various indoor surveillance where lighting is sparse. Furthermore, AXIS Q16/-E Network Cameras are ideal in demanding low-light conditions.

## **2 Main messaging**

Tag line for AXIS Q16 Series:

***Outstanding image performance in demanding lighting conditions***

Tag line for AXIS Q1614 Network Camera:

***Outstanding HDTV 720p video performance in 50/60 fps***

Tag line for AXIS Q1614-E Network Camera:

***Outdoor-ready camera with outstanding HDTV 720p video performance in 50/60 fps***

Tag line for AXIS Q1604 Network Camera:

***Outstanding image performance in intense backlight conditions***

Tag line for AXIS Q1604-E Network Camera:

***Outdoor-ready for outstanding image performance in intense backlight conditions***

Tag line for AXIS Q1602 Network Camera:

***Outstanding image performance in poor light conditions***

Tag line for AXIS Q1602-E Network Camera:

***Outdoor-ready fixed camera for outstanding image in poor light conditions***

## **3 Catalog entry texts**

### **3.1 AXIS Q1614**

#### **50 words**

AXIS Q1614 Network Camera provides HDTV 720p at 50/60 fps, Wide Dynamic Range-dynamic capture, Lightfinder, multiple H.264 and Motion JPEG. It features P-Iris lens, day/night, digital PTZ and two-way audio. New innovative features, auto rotation, leveling assistance, shock detection, I/O ports with 12 V DC output, and serial communication port.

#### **100 words**

AXIS Q1614 Network Camera provides outstanding video quality in HDTV 720p resolution at 50/60 fps, Wide Dynamic Range-dynamic capture, Axis' Lightfinder, multiple H.264 and Motion JPEG streams. The camera features P-Iris lens, day/night functionality, digital PTZ and two-way audio. Easy installation with remote back focus, pixel counter, Power over Ethernet and new innovative features, auto rotation and leveling assistance. Video intelligence includes audio detection, video motion detection, active tampering alarm and the new shock detection. Enhanced alarm/event handling with I/O ports with 12 V DC output, and with a serial communication port. Ideal for video surveillance of fast moving object.

### **3.2 AXIS Q1614-E**

#### **50 words**

Outdoor-ready, day and night AXIS Q1614 -E Network Camera provides HDTV 720p at 50/60 fps, Wide Dynamic Range-dynamic capture, Lightfinder, H.264 and Motion JPEG. Features P-Iris lens, digital PTZ and two-way audio. New auto rotation, leveling assistance, shock detection, I/O ports with 12 V DC output, and serial communication port.

#### **100 words**

The outdoor-ready, day and night AXIS Q1614 -E Network Camera provides video quality in HDTV 720p resolution at 50/60 fps, Wide Dynamic Range-dynamic capture, Axis' Lightfinder, multiple H.264 and Motion JPEG streams. Featuring P-Iris lens, digital PTZ and two-way audio. Easy installation with remote back focus, pixel counter, Power over Ethernet. New innovative features, auto rotation and leveling assistance. Video intelligence includes audio detection, video motion detection, active tampering alarm and the new shock detection. Enhanced alarm/event handling with I/O ports with 12 V DC output, and with a serial communication port. Ideal for video surveillance of fast moving object.

### **3.3 AXIS Q1604**

#### **50 words**

AXIS Q1604 Network Camera provides superb video quality in HDTV 720p/1MP resolution, enhanced Wide Dynamic Range-dynamic capture and multiple H.264 and Motion JPEG streams, in full frame rate or individually configured. The camera features P-Iris lens, day/night functionality, remote back focus, digital PTZ, Power over Ethernet and an SD/SDHC card slot.

#### **100 words**

AXIS Q1604 Network Camera provides superb video quality in HDTV 720p/1MP resolution, enhanced Wide Dynamic Range-dynamic capture and multiple H.264 and Motion JPEG streams, in full frame rate or individually configured. The camera features P-Iris lens, day/night functionality, digital PTZ, two-way audio and support for P-Iris lenses. Easy installation with remote back focus, pixel counter and Power over Ethernet. Video intelligence includes audio detection, video motion detection, active tampering alarm, ONVIF support and an SD/SDHC card slot. AXIS Q1604 is ideal for video surveillance under backlight conditions where intensity of illumination can vary greatly.

### **3.4 AXIS Q1604-E**

#### **50 words**

The outdoor-ready, day and night AXIS Q1604 -E Network Camera provides 1 MP/HDTV 720p resolution in H.264 and Motion JPEG streams. It features enhanced Wide Dynamic Range-dynamic capture. Powered over Ethernet, the camera includes P-Iris lens, remote back focus, digital PTZ, two-way audio and a built-in SD/SDHC memory card slot.

#### **100 words**

The outdoor-ready, day and night AXIS Q1604 -E Network Camera provides 1 MP/HDTV 720p resolution in H.264 and Motion JPEG streams. It features enhanced Wide Dynamic Range-dynamic capture. Camera features include P-Iris lens, remote back focus, pixel counter, digital PTZ, two-way audio, support for P-Iris lenses and a built-in SD/SDHC memory card slot. The IP66-rated camera operates using Power over Ethernet (PoE) and High PoE in temperatures from -40 °C to 50 °C (-40 °F to 122 °F). AXIS Q1604 -E is ideal for video surveillance under backlight conditions where intensity of illumination can vary greatly.

### **3.5 AXIS Q1602**

#### **50 words**

AXIS Q1602 Network Camera is an extended D1 (768x576), DC-iris lens, indoor fixed camera that incorporates Axis' Lightfinder technology. It delivers full frame rate in H.264 and Motion JPEG. Easy installation thanks to focus assistance capabilities, remote back focus, pixel counter and Power over Ethernet. AXIS Q1602 is suited for low-light environments.

**100 words**

AXIS Q1602 Network Camera is an extended D1 (768x576), DC-iris lens, indoor fixed camera that incorporates Axis’ Lightfinder technology with outstanding light sensitivity. It delivers full frame rate in H.264 and Motion JPEG. Other features include two-way audio, digital PTZ, focus assistance, support for P-Iris lenses, and easy installation with remote back focus, pixel counter and Power over Ethernet. Video intelligence includes audio detection, video motion detection, active tampering alarm, ONVIF support and an SD/SDHC slot for local storage is also provided. AXIS Q1602 is suited for low-light environments, where users require colour information to enhance recognition and identification of objects.

**3.6 AXIS Q1602-E**

**50 words**

AXIS Q1602-E Network Camera is an extended D1 (768x576), DC-iris lens, outdoor-ready camera incorporating Axis’ Lightfinder technology. It delivers full frame rate in H.264 and Motion JPEG. Easy installation with remote back focus, pixel counter and Power over Ethernet. AXIS Q1602-E is suited for city surveillance and industrial sites with low-light conditions.

**100 words**

AXIS Q1602-E Network Camera is an extended D1 (768x576), DC-iris lens, outdoor-ready vandal-resistant camera that incorporates Axis’ Lightfinder technology with outstanding light sensitivity. It delivers full frame rate in H.264 and Motion JPEG. Other features include two-way audio, digital PTZ, support for P-Iris lenses, and easy installation with remote back focus, pixel counter and Power over Ethernet. Video intelligence includes audio detection, video motion detection, active tampering alarm, ONVIF support and an SD/SDHC slot for local storage. AXIS Q1602-E is suited for city surveillance and industrial sites with low-light conditions, where users require colour information to enhance recognition and identification of objects.

**4 Warranty information**

AXIS Q16 Series is covered by a 3-year warranty.

**5 Part numbers and EAN codes**

For more information, see partner pages: - [http://www.axis.com/partner\\_pages](http://www.axis.com/partner_pages)

**5.1 AXIS Q16 Network Cameras**

Part No	Product Name	Country	EAN
0550-001	AXIS Q1614	All regions	7331021040519
0550-009	AXIS Q1614	CN	7331021040526
0551-001	AXIS Q1614-E	All regions	7331021040533
0551-009	AXIS Q1614-E	CN	7331021040540
0439-001	AXIS Q1604	All regions	7331021034785

0463-001	AXIS Q1604-E	All regions	7331021036604
0437-001	AXIS Q1602	All regions	7331021034761
0406-005	AXIS Q1602	JP	7331021036109
0437-009	AXIS Q1602	CN	7331021036116
0438-001	AXIS Q1602-E	All regions	7331021034778
0438-005	AXIS Q1602-E	JP	7331021036123
0438-009	AXIS Q1602-E	CN	7331021036130

## 6 Dimensions and weight

### 6.1 Unit weight and dimensions (H x W x D)

Product	Weight		Dimensions	
	gram	lb.	mm	inches
AXIS Q1614	925	2.0	58 x 82 x 190	2.2 x 3.2 x 7.5
AXIS Q1614-E	3525	7.7	12.1 x 16.2 x 40.5*	4.7 x 6.4 x 15.9*
AXIS Q1602 / Q1604	600	1.3	46 x 78 x 205	1.8 x 3.1 x 8.1
AXIS Q1602-E / Q1604-E	3100	6.8	12.1 x 16.2 x 40.5*	4.7 x 6.4 x 15.9*

\*Dimensions with sunshield

### 6.2 Single pack - Shipping weight and dimensions (H x W x D)

Product	Weight		Dimensions	
	kg	lb.	mm	inches
AXIS Q1614	1.4	3.1	250 x 190 x 120	9.8 x 7.5 x 4.7
AXIS Q1614-E	5.7	12.5	210 x 240 x 580	8.3 x 9.4 x 22.8
AXIS Q1602 / AXIS Q1604	1.3	2.9	250 x 190 x 120	9.8 x 7.5 x 4.7
AXIS Q1602-E / AXIS Q1604-E	5.1	11.2	210 x 240 x 580	8.3 x 9.4 x 22.8

## 7 Packaging

### 7.1 Single pack

A single pack (one AXIS Q16 Network Camera Series) is shipped in an Axis standard, brown cardboard box with the product name printed on labels on the sides.

The **single-pack shipment** contains the following:

- 1 piece camera unit
- 1 mounting stand, Torx20 tool and connector kit
- 1 piece multilingual Installation Guide
- 1 piece warranty card
- 1 piece AVHS Authentication key
- 1 piece mini CD with AXIS IP Utility, AXIS Camera Management and User's Manual

A single pack (one AXIS Q16-E Network Cameras) is shipped in an Axis standard, brown cardboard box with the product name printed on labels on the sides.

The **single-pack shipment** contains the following:

- 1 piece camera unit
- 1 piece wall bracket
- 1 piece drilling template
- 1 piece 1 screwdriver - Torx20
- 1 set mounting and connector kits
- 1 piece multilingual Installation Guide
- 1 piece warranty card
- 1 piece AVHS Authentication key
- 1 piece CD with AXIS IP Utility, AXIS Camera Management and User's Manual