

AXIS Q1604-E Network Camera

Outdoor-ready for intense backlight conditions

AXIS Q1604-E is an outdoor fixed camera enabling clear identification of both people and objects, even in highly variable lighting conditions. With Wide Dynamic Range - Dynamic Capture, the camera provides homogeneous images without too dark or too bright parts. The remote back focus function enables fine-tuning of the focus from a computer, and the pixel counter helps verifying that the pixel resolution of an object or face fulfills regulatory requirements. The IP66- and NEMA 4X-rated AXIS Q1604-E offers a robust aluminum casing with an included sunshield and wall bracket. Arctic Temperature Control ensures safe start-up in extreme cold.

- > **Arctic Temperature Control, -40 °C to 50 °C (-40 °F to 122 °F)**
- > **Wide Dynamic Range - Dynamic Capture**
- > **HDTV 720p**
- > **Day/night functionality**
- > **Remote back focus**



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Camera	
Image sensor	Progressive scan RGB CMOS 1/3"
Lens	Varifocal, IR corrected, CS-mount 2.8–8 mm, F1.2 Horizontal angle of view: 80°–34° P-Iris
Day and night	Automatically removable infrared-cut filter
Minimum illumination	Color: 0.1 lux, B/W: 0.02 lux, F1.2 With WDR – dynamic capture: Color: 0.4 lux, B/W: 0.06 lux, F1.2
Shutter time	1/29500 to 2 s
Video	
Video compression	H.264 (MPEG-4 Part 10/AVC), Main and Baseline Profile, Motion JPEG
Resolutions	1280x960 ^a (1 MP) to 160x90
Frame rate	25/30 fps
Video streaming	Multiple, individually configurable streams in H.264 and Motion JPEG Controllable frame rate and bandwidth VBR H.264
Image settings	Compression, color, brightness, sharpness, contrast, white balance, exposure control, exposure zone, fine tuning of behavior at low light, text and image overlay, privacy mask, mirroring of images Rotation: auto, 0°, 90°, 180°, 270° WDR – dynamic capture: up to 120 dB depending on scene, day/night shift level, shadow and highlight recovery, backlight compensation
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
Network	
Security	Password protection, IP address filtering, HTTPS ^b encryption, IEEE 802.1X ^b network access control, Digest authentication, User access log, Centralized Certificate Management
Supported protocols	IPv4/v6, HTTP, HTTPS ^b , SSL/TLS ^b , QoS Layer 3 DiffServ, FTP, CIFS/SMB, SMTP, Bonjour, UPnP TM , SNMPv1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, RTSP, RTP, SFTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP, ARP, SOCKS, SSH
System integration	
Application Programming Interface	Open API for software integration, including VAPIX [®] and AXIS Camera Application Platform; specifications at www.axis.com AXIS Video Hosting System (AVHS) with One-Click Connection ONVIF Profile S, specification at www.onvif.org
Analytics	AXIS Video Motion Detection 3, active tampering alarm, audio detection Support for AXIS Camera Application Platform enabling installation of AXIS Cross Line Detection, AXIS Digital Autotracking and third-party applications, see www.axis.com/acap
Event triggers	Analytics, Edge storage events, External input
Event actions	File upload: FTP, SFTP, HTTP, HTTPS, network share and email, send video clip Notification: email, HTTP, HTTPS and TCP Overlay text, Send SNMP Trap Video and audio recording to edge storage Pre- and post-alarm video buffering
	External output activation, day/night vision mode, play audio clip, status LED, WDR mode
Data streaming	Event data
Built-in installation aids	Focus assistant, Pixel counter, Remote back focus
General	
Casing	Enclosure: Metal (aluminium) Color: White NCS S 1002-B IP66- and NEMA 4X-rated, IK10 impact resistant aluminum enclosure
Sustainability	PVC free
Memory	256 MB RAM, 128 MB Flash
Power	Power over Ethernet IEEE 802.3af/802.3at Type 1, max 12.95 W or Power over Ethernet Plus (PoE+) IEEE 802.3at Type 2 using 2-event classification, max 25.5 W
Connectors	RJ45 10BASE-T/100BASE-TX PoE, 3.5 mm mic/line in, 3.5 mm line out Terminal block for 1 alarm input and 1 output
Storage	Support for SD/SDHC/SDXC card Support for recording to dedicated network-attached storage (NAS) For SD card and NAS recommendations see www.axis.com
Operating conditions	-30 °C to 50 °C (-22 °F to 122 °F) with PoE Down to -40 °C (-40 °F) with Axis High PoE Midspan, max 30 W Humidity 10–100% RH (condensing)
Storage conditions	-40 °C to 65 °C (-40 °F to 149 °F)
Approvals	EN 55032 Class B, EN 61000-3-2, EN 61000-3-3, EN 55024, EN 61000-6-1, EN 61000-6-2, FCC Part 15 Subpart B Class B, ICES-003 Class B, VCCI Class B, RCM AS/NZS CISPR 22 Class B, IEC/EN/UL 60950-1 KCC KN32 Class B, KN35 EN 50121-4, IEC 62236-4, IEC/EN/UL 60950-22, IEC/EN 60529 IP66, NEMA 250 Type 4X, IEC 60068-2-6, IEC 60068-2-27, IEC/EN 62262 IK10
Dimensions	161 x 142 x 404 mm (6 5/16 x 5 9/16 x 15 15/16 in)
Weight	3100 g (6.8 lb)
Included accessories	AXIS T94Q01A Wall Mount, Sunshield Connector kit, Resistor [®] T20 tool, Installation Guide, Windows decoder 1-user license
Optional accessories	AXIS T91A47 Pole Mount, AXIS T94R01P Conduit Back Box, VT Corner Mount WCWA, VT Column Mount Ball Joint WFWCA, AXIS T98A16-VE Surveillance Cabinet, Axis optional lenses, AXIS T90B Illuminators, Axis network cable couplers, AXIS T8120 Midspan 15 W 1-port, AXIS T8133 Midspan 30 W 1-port, AXIS T8129 PoE Extender, AXIS Surveillance microSDXC [™] Card 64 GB
Video management software	AXIS Companion, AXIS Camera Station, Video management software from Axis' Application Development Partners available on www.axis.com/techsup/software
Languages	English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Traditional Chinese
Warranty	Axis 3-year warranty and AXIS Extended Warranty option, see www.axis.com/warranty

- a. 1400x1050 (1.4 MP) scaled resolution available via VAPIX[®]
b. This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (<http://www.openssl.org/>), and cryptographic software written by Eric Young (ey@cryptsoft.com).

Environmental responsibility:

www.axis.com/environmental-responsibility