

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**



AXIS Q1604-E Network Camera

| Camera | |
|--|---|
| Image sensor | Progressive scan RGB CMOS 1/3" |
| Lens | Varifocal, IR corrected, CS-mount, Megapixel resolution P-Iris 2.8-8 mm, F1.2 Horizontal angle of view: 80°-34° |
| 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/Motion JPEG, Controllable frame rate and bandwidth VBR H.264 |
| Image settings | Compression, Color, Brightness, Sharpness, Contrast, White balance, Exposure control, Exposure zone, Backlight compensation, Fine tuning of behavior at low light, Text and image overlay, Privacy mask, Mirroring of images Rotation: Auto, 0°, 90°, 180°, 270° including Corridor Format WDR-Dynamic Capture: Up to 120 dB depending on scene, Day/Night shift level, Shadow and highlight recovery |
| 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 | Video motion detection, Active tampering alarm, Audio detection Support for AXIS Camera Application Platform enabling installation of AXIS Video Motion Detection 3, 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 | Camera: Metal (zinc) Color: White NCS S 1002-B IP66- and NEMA 4X-rated, IK10 impact resistant aluminum enclosure |
| Memory | 256 MB RAM, 128 MB Flash |
| Power | Power over Ethernet IEEE 802.3af/802.3at Type 1 Class 3, max. 12.95 W or High PoE: 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 |
| Edge 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) |
| Approvals | EN 55022 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, C-tick AS/NZS CISPR 22 Class B, IEC/EN/UL 60950-1 KCC KN22 Class B, KN24 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 | AXIS Q1604-E: 3100 g (6.8 lb) |
| Included accessories | Stand, Connector kit, Resistorx T20 tool, Installation Guide, Windows decoder 1-user license AXIS T94Q01A Wall Mount, Sunshield |
| 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 Camera Companion, AXIS Camera Station, Video management software from Axis' Application Development Partners available on www.axis.com/techsup/software |
| Languages | German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese |
| 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).

More information is available at www.axis.com