

# AXIS Q1785-LE Network Camera

Robust, first-class 2 MP video with 32x optical zoom

AXIS Q1785-LE Network Camera is an all-integrated camera delivering 2 megapixel resolution and 32x optical zoom for easy and flexible installation at any distance as well as detailed video for identification. With a wide temperature range, impact resistance and IP66, IP67 and NEMA 4X ratings, this reliable camera is ready for tough environments. Lightfinder, Forensic WDR and OptimizedIR with 80 m (262 ft) range ensure details in challenging light conditions and darkness. AXIS Q1785-LE offers built-in analytics for proactive surveillance, corridor format and audio in for video with sound. Furthermore, Axis Zipstream saves bandwidth while keeping high video quality.

- > **HDTV 1080p at up to 60 fps**
- > **-40 °C to 60 °C (-40 °F to 140 °F)**
- > **OptimizedIR with 80 m (262 ft) range**
- > **Electronic Image Stabilization**
- > **AXIS Guard Suite included**



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<b>Camera</b>		Onscreen controls	Electronic image stabilization Day/night shift Defogging Wide dynamic range IR illumination Autofocus
Image sensor	1/2.8" progressive scan RGB CMOS	Event triggers	Analytics, edge storage events Supervised external input, virtual inputs through API, shock detection, audio detection MQTT subscribe
Lens	4.3–137 mm, F1.4–4.0 Horizontal field of view: 60°–2.3° Vertical field of view: 39°–1.3° Autofocus, auto-iris, automatic day/night Thread for 62 mm lters, max lter thickness: 5 mm	Event actions	Pre- and post-alarm video buffering File upload: FTP, SFTP, HTTP, HTTPS, network share and email MQTT publish Notification: email, HTTP, HTTPS, TCP and SNMP trap
Day and night	Automatically removable infrared-cut lter in day mode and infrared-pass lter 720 nm in night mode	Data streaming	Event data
Minimum illumination	<b>Color:</b> 0.16 lux at 50 IRE F1.4 <b>B/W:</b> 0.03 lux at 50 IRE F1.4 0 lux with IR illumination on	Built-in installation aids	Remote zoom, pixel counter, leveling assistant, autorotation
Shutter speed	1/66500 s to 1 s	<b>Analytics</b>	
<b>System on chip (SoC)</b>		Applications	<b>Included</b> AXIS Motion Guard, AXIS Fence Guard, AXIS Loitering Guard <b>Supported</b> AXIS Perimeter Defender, AXIS Cross Line Detection Support for AXIS Camera Application Platform enabling installation of third-party applications, see <a href="http://axis.com/acap">axis.com/acap</a>
Model	ARTPEC-6	<b>General</b>	
Memory	1024 MB RAM, 512 MB Flash	Casing	IP66-, IP67-, and NEMA 4X-rated, IK10 impact-resistant aluminum enclosure with integrated dehumidifying membrane, IK08 impact-resistant glass front window, weathershield with black anti-glare coating Color: White NCS S 1002-B For repainting instructions of casing and impact on warranty, contact your Axis partner.
<b>Video</b>		Sustainability	PVC free, 2% recycled plastic
Video compression	H.264 (MPEG-4 Part 10/AVC) Baseline, Main and High Profiles Motion JPEG	Memory	1024 MB RAM, 512 MB Flash
Resolution	1920x1080 HDTV 1080p to 160x120 <b>Maximum pixel density with 32x optical zoom:</b> <b>25 m (82 ft):</b> 1912 px/m <b>50 m (164 ft):</b> 956 px/m <b>250 m (820 ft):</b> 191 px/m	Power	Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 1 Class 3 Typical 7.7 W, max 12.95 W 20–28 V DC, typical 7.8 W, max 13.5 W 20–24 V AC, typical 12.4 V A, max 20 V A
Frame rate	<b>With WDR:</b> Up to 25/30 fps (50/60 Hz) in all resolutions <b>Without WDR:</b> Up to 50/60 fps (50/60 Hz) in all resolutions	Connectors	Shielded RJ45 10BASE-T/100BASE-TX PoE IDC punchdown connector DC Power connector Terminal block for two configurable supervised inputs / digital outputs (12 V DC output, max. load 50 mA) 3.5 mm mic/line in
Video streaming	Multiple, individually configurable streams in H.264 and Motion JPEG Axis Zipstream technology in H.264 Controllable frame rate and bandwidth VBR/ABR/MBR H.264	IR illumination	Optimized IR with power-efficient, long-life 850 nm IR LED's with adjustable angle of illumination and intensity. Range of reach 30 m (98 ft) in wide field of view and 80 m (262 ft) in full tele view, or more depending on the scene
Image settings	Saturation, contrast, brightness, sharpness, Forensic WDR: Up to 120 dB depending on scene, defogging, white balance, day/night threshold, exposure mode, exposure zones, compression, mirroring of images, electronic image stabilization, barrel distortion correction, text and image overlay, dynamic text and image overlay, privacy masks Rotation: auto, 0°, 90°, 180°, 270° including Corridor Format Scene profiles: forensic, vivid, traffic overview, backlit entrance	Storage	Support for microSD/microSDHC/microSDXC card Support for SD card encryption (AES-XTS-Plain64 256bit) Recording to network-attached storage (NAS) For SD card and NAS recommendations see <a href="http://axis.com">axis.com</a>
Pan/Tilt/Zoom	32x optical zoom, preset positions	Operating conditions	-40 °C to 60 °C (-40 °F to 140 °F) Maximum temperature according to NEMA TS 2 (2.2.7): 74 °C (165 °F) Humidity 10-100% RH (condensing)
<b>Audio</b>		Storage conditions	-40 °C to 65 °C (-40 °F to 149 °F) Humidity 5-95% RH (non-condensing)
Audio streaming	Audio in, simplex Two-way audio via edge-to-edge technology	Approvals	<b>EMC</b> EN 55032 Class A, EN 50121-4, IEC 62236-4, EN 55024, EN 61000-6-1, EN 61000-6-2, FCC Part 15 Subpart B Class A, ICES-003 Class A, VCCI Class A, RCM AS/NZS CISPR 32 Class A, KCC KN32 Class A, KN35, EAC <b>Safety</b> IEC/EN/UL 62368-1, IEC/EN/UL 60950-22, EN/IEC 62471 IS 13252 <b>Environment</b> EN 50581, IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-14, IEC 60068-2-30, IEC 60068-2-27,
Audio encoding	AAC-LC 8/16/32/48 kHz, G.711 PCM 8 kHz, G.726 ADPCM 8 kHz, Opus 8/16/48 kHz, LPCM Configurable bit rate		
Audio input/output	Automatic gain control, external microphone input, line input, digital input with ring power, balanced microphone, balanced input Network speaker pairing		
<b>Network</b>			
Security	Password protection, IP address filtering, HTTPS <sup>a</sup> encryption, IEEE 802.1x (EAP-TLS) <sup>a</sup> network access control, digest authentication, user access log, centralized certificate management, signed firmware, brute force delay protection		
Network protocols	IPv4, IPv6, USGv6, ICMPv4/ICMPv6, HTTP, HTTP/2, HTTPS <sup>a</sup> , TLS <sup>a</sup> , QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP <sup>b</sup> , SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, NTS, RTSP, RTP, SRTP/RTSPS, TCP, UDP, IGMPv1/v2/v3, RTCP, ICMP, DHCPv4/v6, ARP, SSH, LLDP, CDP, MQTT v3.1.1, Secure syslog (RFC 3164/5424, UDP/TCP/TLS), Link-Local address (ZeroConf)		
<b>System integration</b>			
Application Programming Interface	Open API for software integration, including VAPIX <sup>®</sup> and AXIS Camera Application Platform; specifications at <a href="http://axis.com">axis.com</a> AXIS Video Hosting System (AVHS) with One-Click Connection One-click cloud connection ONVIF <sup>®</sup> Profile G, ONVIF <sup>®</sup> Profile M, ONVIF <sup>®</sup> Profile S, and ONVIF <sup>®</sup> Profile T, specification at <a href="http://onvif.org">onvif.org</a>		

	IEC 60068-2-78, IEC/EN 60529 IP66, IP67, IEC/EN 62262 IK10 body, IK08 glass, NEMA 250 Type 4X, NEMA TS 2 (2.2.7-2.2.9) <b>Network</b> NIST SP500-267	AXIS Q17 Front Window Kit B (IK10 impact-resistant plastic front window) For more accessories, see <a href="http://axis.com">axis.com</a>
Dimensions	Length: 386 mm (15 3/16 in) ø 147 mm (5 13/16 in)	Video management software AXIS Companion, AXIS Camera Station, video management software from Axis Application Development Partners available at <a href="http://axis.com/vms">axis.com/vms</a>
Weight	2.4 kg (5.3 lb)	Languages English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Traditional Chinese
Included accessories	Installation guide, Windows® decoder 1-user license, connector kit, Resistorx® L-key RJ45 patch cable	Warranty 5-year warranty, see <a href="http://axis.com/warranty">axis.com/warranty</a>
Optional accessories	AXIS T8604 Media Converter Switch AXIS T91A47 Pole Mount, AXIS T94P01B Corner Bracket	a. <i>This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (openssl.org), and cryptographic software written by Eric Young (eay@cryptsoft.com).</i>