

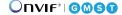
AXIS Q1645-LE Network Camera

High-speed video with 1/2" sensor and OptimizedIR

With AXIS Q1645-LE Network Camera it's easier than ever to capture details even in challenging lighting or low light. With a 1/2" sensor and i-CS lens, AXIS Q1645-LE ensures high-resolution images at up to 120 fps and provides superior light sensitivity with Forensic WDR and Lightfinder. The robust aluminum housing resists extreme temperatures, and comes with built-in IR LED illumination for surveillance in complete darkness. AXIS Q1645-LE enables proactive surveillance with pre-installed AXIS Guard Suite and orientation aid for quick orientation with multiple monitors. Zipstream optimizes the video stream to maintain high video quality while saving bandwidth and storage.

- > 2 MP resolution at up to 100/120 fps
- > 1/2" sensor
- > Forensic WDR and Lightfinder
- > Electronic image stabilization (EIS)
- > AXIS Motion Guard, AXIS Fence Guard and AXIS Loitering Guard







AXIS Q1645-LE Network Camera

C			Audies audie detection
Camera Image sensor	1/2" progressive scan RGB CMOS		Audio: audio detection Device status: above operating temperature, above or below
Lens Day and night Minimum	Varifocal, IR corrected, CS-mount 3.9–10.0 mm, F1.5 2 MP (16:9): Horizontal field of view: 92°–42° Vertical field of view: 50°–23° i-CS lens Automatically removable infrared-cut filter 1080p 25/30 fps with WDR and Lightfinder:		operating temperature, below operating temperature, casing open, IP address removed, network lost, new IP address, storage failure, system ready, within operating temperature Edge storage: recording ongoing, storage disruption I/O: digital input, manual trigger, virtual input MOTT subscribe PTZ: PTZ malfunctioning, PTZ movement, PTZ preset position reached, PTZ ready Scheduled and recurring: scheduled event Video: average bitrate degradation, day-night mode, live stream
illumination	Color: 0.05 lux, at 50 IRE F1.5, B/W: 0.01 lux, at 50 IRE F1.5 1080p 50/60 fps with WDR and Lightfinder: Color: 0.1 lux, at 50 IRE F1.5, B/W: 0.02 lux, at 50 IRE F1.5 1080p 100/120 fps: Color: 0.2 lux, at 50 IRE F1.5, B/W: 0.04 lux, at 50 IRE F1.5 1080p 25/30 fps with WDR and Lightfinder:	Event actions	open, tampering 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
Chusten annual	Color: 0.02 lux, at 50 IRE F0.9, B/W: 0.004 lux, at 50 IRE F0.9 0 lux with IR illumination on		
Shutter speed Pan/Tilt/Zoom	1/143000 to 1 s Digital PTZ, uploadable PTZ driver (Pelco D pre-installed)	status LED, WDR mode, defog mode, PTZ control MQTT publish	
System on chip		Data streaming	Event data
Model	ARTPEC-6	Built-in	i-CS: Remote zoom and focus
Memory	1 GB RAM, 512 MB Flash	installation aids	Other lens: Remote back focus
Video	1 OD MAIVI, 512 IVID I IdSII		Traffic wizard, pixel counter, levelling assistant, autorotation
Video	H.264 (MPEG-4 Part 10/AVC), Main, Baseline and High Profile	Analytics	
compression	Motion JPEG	Applications	Included AXIS Motion Guard, AXIS Fence Guard, AXIS Loitering Guard
Resolution	1920x1080 to 320x180		AXIS Video Motion Detection, active tampering alarm, audio detection
Frame rate	HDTV 1080p (1920x1080) with WDR: Up to 50/60 fps with power line frequency 50/60 Hz HDTV 1080p (1920x1080) without WDR: Up to 100/120 fps with power line frequency 50/60 Hz		Supported AXIS Digital Autotracking, AXIS Perimeter Defender Support for AXIS Camera Application Platform enabling installation of third-party applications, see axis.com/acap
Video streaming	Multiple, individually configurable streams in H.264 and Motion	Approvals	
Image settings	JPEG Axis Zipstream technology in H.264 Controllable frame rate and bandwidth VBR/ABR/MBR H.264 Saturation, contrast, brightness, sharpness, Forensic WDR –	EMC	EN 55032 Class A, EN 61000-3-2, EN 61000-3-3, EN 50121-4, IEC 62236-4, EN 55024, EN 61000-6-1, EN 61000-6-2 Australia/New Zealand: RCM AS/NZS CISPR 32 Class A Canada: ICES-003 Class A
image sectings	120 dB, white balance, day/night threshold, exposure mode, exposure zones, compression, orientation: auto, 0°, 90°, 180°,		Japan: VCCI Class A USA: FCC Part 15 Subpart B Class A
	270°, mirroring of images, dynamic text overlay, image overlay,	Safety	IEC/EN/UL 60950-22, IEC/EN/UL 62368-1, IS 13252, IEC 62471
	privacy masks, defogging, noise reduction, electronic image stabilization, barrel distortion correction, orientation aid, fine tuning of behavior at low light Scene profiles: forensic, vivid, traffic overview, backlit entrance	Environment	IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-14 IEC 60068-2-27, IEC 60068-2-78, IEC/EN 60529 IP66/67, IEC/EN 62262 IK10, NEMA 250 Type 4X
Audio	, , , , , , , , , , , , , , , , , , , ,	Network	NIST SP500-267
Audio streaming	Two-way, full duplex	Cybersecurity	
Audio encoding	AAC-LC 8/16/32/48 kHz, G.711 PCM 8 kHz, G.726 ADPCM 8 kHz, Opus 8/16/48 kHz Configurable bit rate	Edge security	Software: Signed firmware, brute force delay protection, digest authentication and OAuth 2.0 RFC6749 OpenID Authorization Code Flow for centralized ADFS account management, password protection
Audio input/output	External balanced/unbalanced microphone or line input, line output, automatic gain control 24 bit AD/DA-conversion	Network security	IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2), IEEE 802.1AE (MACsec PSK/EAP-TLS), HTTPS/HSTS, TLS v1.2/v1.3, Network Time Security (NTS), X.509 Certificate PKI,
Network			host-based firewall
Network protocols	IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTP/2, HTTPS, TLS, QoS Layer 3 DiffServ, FTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnPTM, SNMPv1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, NTS, RTSP, RTP, STTP, 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).	Documentation	AXIS OS Hardening Guide Axis Vulnerability Management Policy Axis Security Development Model AXIS OS Software Bill of Material (SBOM) To download documents, go to axis.com/support/cybersecurity/resources
System integra	tion		To read more about Axis cybersecurity support, go to
Application	Open API for software integration, including VAPIX® and	Comowal	axis.com/cybersecurity
Programming Interface	AXIS Camera Application Platform; specifications at axis.com AXIS Video Hosting System (AVHS) with One-Click Connection One-click cloud connection ONVIF® Profile G, ONVIF® Profile M, ONVIF® Profile S, and ONVIF® Profile T, specifications at onvif.org	General Casing	IP66-, IP67-, NEMA 4X- and IK10-rated Metal (Aluminium) Color front: Black - NCS S 9000-N Color chassi: White - NCS S 1002-B
Event conditions	Analytics, external input, edge storage events, virtual inputs		Intrusion alarm switch

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Power	Power over Ethernet (PoE) IEEE 802.3at Type 2 Class 4 Typical 12.3 W, max 25.5 W
Connectors	Shielded RJ45 10BASE-T/100BASE-TX PoE I/O: 6-pin 2.5 mm terminal block for four configurable inputs/outputs (12 V DC output, max load 50 mA) RS485/RS422, 2 pcs, 2 pos, full duplex, terminal block 3.5 mm mic/line in, 3.5 mm line out i-CS connector (compatible with P-Iris and DC-iris)
IR illumination	OptimizedIR with power-efficient, long-life 850 nm IR LEDs Range of reach 30 m (98 ft) or more depending on the scene
Storage	Support for microSD/microSDHC/microSDXC card Support for SD card encryption (AES-XTS-Plain64 256bit) Support for recording to network-attached storage (NAS) For SD card and NAS recommendations see axis.com
Operating conditions	Arctic temperature control: Start-up at -40 °C to 60 °C (-40 °F to 140 °F) Humidity 10–100% RH (condensing)
Storage conditions	-40 °C to 65 °C (-40 °F to 149 °F) Humidity 5–95% RH (non-condensing)
Dimensions	178 x 206 x 494 mm (7 x 8.11 x 19.45 in)
Weight	6350 g (13.2 lb)

Included accessories	AXIS T94Q01A Wall Mount, AXIS T92G20 Outdoor Housing, connector kit, resistorx® T20 tool, installation guide, Windows® decoder 1-user license
Optional lenses	Fujinon Varifocal Lens 8-80 mm, DC-iris Lens i-CS 9-50 mm F1.5 8 MP Lens CS 12-50 mm F1.4 P-Iris 8 MP Lens i-CS 1/1.8" 3.9-10 mm F1.5 Ricom 2MP Lens DC-iris 8-26 mm F0.9 Tamron Varifocal 5MP Lens 4-13 mm, DC-iris & C-mount
Optional accessories	AXIS T90B Illuminators, Axis network cable couplers, AXIS T8129 PoE Extender, AXIS T8415 Wireless Installation Tool, Axis midspans For more accessories, see <i>axis.com</i>
Video management software	AXIS Companion, AXIS Camera Station, video management software from Axis Application Development Partners available at axis.com/vms
Languages	English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Traditional Chinese, Dutch, Czech, Swedish, Finnish, Turkish, Thai, Vietnamese
Warranty	5-year warranty, see axis.com/warranty

