

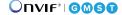
AXIS Q1645-LE Network Camera

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

Camera		Video	Compatible with AXIS Camera Station Edge, AXIS Camera Station	
Image sensor	1/2" progressive scan RGB CMOS	management	Pro, AXIS Camera Station 5, and video management software	
Lens	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	systems Event conditions	from Axis' partners available at axis.com/vms. Analytics, external input, edge storage events, virtual inputs through API Audio: audio detection Device status: above operating temperature, above or below operating temperature, below operating temperature, casing	
Day and night	Automatically removable infrared-cut filter		open, IP address removed, network lost, new IP address, storage	
Minimum illumination	1080p 25/30 fps with WDR and Lightfinder: 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: 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		failure, system ready, within operating temperature Edge storage: recording ongoing, storage disruption I/O: digital input, manual trigger, virtual input MOIT 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 open, tampering	
Shutter speed	1/143000 to 1 s	Event actions	File upload: FTP, SFTP, HTTP, HTTPS, network share and email, send video clip	
Pan/Tilt/Zoom	Digital PTZ, uploadable PTZ driver (Pelco D pre-installed)		Notification: email, HTTP, HTTPS and TCP Overlay text, Send SNMP Trap	
System on chip			Video and audio recording to edge storage	
Model	ARTPEC-6		Pre- and post-alarm video buffering External output activation, day/night vision mode, play audio clip	
Memory	1 GB RAM, 512 MB Flash		status LED, WDR mode, defog mode, PTZ control	
Video			MQTT publish	
Video	H.264 (MPEG-4 Part 10/AVC), Main, Baseline and High Profile	Data streaming	Event data	
compression Resolution	Motion JPEG 1920x1080 to 320x180	Built-in installation aids	i-CS: Remote zoom and focus Other lens: Remote back focus	
Frame rate			Traffic wizard, pixel counter, levelling assistant, autorotation	
rrame 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	Analytics Applications	Included AXIS Motion Guard, AXIS Fence Guard, AXIS Loitering Guard	
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		AXIS Video Motion Detection, active tampering alarm, audio detection Supported AXIS Digital Autotracking, AXIS Perimeter Defender Support for AXIS Camera Application Platform enabling installation of third-party applications, see axis.com/acap	
Image settings	Saturation, contrast, brightness, sharpness, Forensic WDR – 120 dB, white balance, day/night threshold, exposure mode,	Approvals		
	exposure zones, compression, orientation: auto, 0°, 90°, 180°, 270°, mirroring of images, dynamic text overlay, image overlay, 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	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 Japan: VCCI Class A USA: FCC Part 15 Subpart B Class A	
Audio		Safety	IEC/EN/UL 60950-22, IEC/EN/UL 62368-1, IS 13252, IEC 62471	
Audio streaming Audio encoding	Two-way, full duplex AAC-LC 8/16/32/48 kHz, G.711 PCM 8 kHz, G.726 ADPCM 8 kHz, Opus 8/16/48 kHz	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	
	Configurable bit rate	Network	NIST SP500-267	
Audio	External balanced/unbalanced microphone or line input, line	Cybersecurity		
input/output	output, automatic gain control 24 bit AD/DA-conversion	Edge security	Software: Signed OS, brute force delay protection, digest	
Network Network	IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTP/2, HTTPS, TLS, QoS		authentication and OAuth 2.0 RFC6749 OpenID Authorization Code Flow for centralized ADFS account management, passworn protection	
protocols	Layer 3 DiffServ, FTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP TM , SNMPv1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, NTS, RTSP, RTP, SFTP, 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).	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, host-based firewall	
System integro		Documentation	AXIS OS Hardening Guide Axis Vulnerability Management Policy	
Application Programming Interface	Open API for software integration, including VAPIX® and AXIS Camera Application Platform; specifications at <i>axis.com</i> 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 <i>onvif.org</i>		Axis Vuinerability Management Policy Axis Security Development Model AXIS OS Software Bill of Material (SBOM) To download documents, go to axis.com/support/cybersecurity/resources	

WWW.CIXIS.COM T10116989/EN/M34.2/2501

	To read more about Axis cybersecurity support, go to axis.com/cybersecurity
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 Intrusion alarm switch
Sustainability	PVC free
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>
Languages	English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Traditional Chinese 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

