

## **AXIS Q1645 Network Camera**

High-speed video with 1/2" sensor and i-CS lens

With AXIS Q1645 Network Camera it's easier than ever to capture details even in challenging lighting or low light. The 1/2" sensor and i-CS lens ensure sharp images in high resolution at full frame rate, and with Forensic WDR and Lightfinder, AXIS Q1645 provides superior light sensitivity and excellent image usability. AXIS Q1645 enables proactive surveillance with preinstalled AXIS Motion Guard and AXIS Fence Guard, and orientation aid with compass rose and street names for quick orientation with multiple monitors. Zipstream optimizes the video stream to maintain high video quality while saving bandwidth and storage.

- > HDTV 1080p/2 MP resolution at up to 100/120 fps
- > 1/2" sensor
- > Forensic WDR and Lightfinder
- > Electronic image stabilization (EIS)
- > AXIS Motion Guard and AXIS Fence Guard







## AXIS Q1645 Network Camera

Camera			Device status: above operating temperature, above or below	
Image sensor	1/2" progressive scan RGB CMOS	oper	perating temperature, below operating temperature, IP address	
Lens	Varifocal, IR corrected, CS-mount 3.9–10.0 mm, F1.5 2 MP (16:9): Horizontal field of view: 109°–42° Vertical field of view: 58°–23° i-CS lens		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 MQTT subscribe PTZ: PTZ malfunctioning, PTZ movement, PTZ preset position reached, PTZ ready	
Day and night	Automatically removable infrared-cut filter		Scheduled and recurring: scheduled event	
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	Event actions	Video: average bitrate degradation, day-night mode, live stream 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	
	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		Video and audio recording to edge storage Pre- and post-alarm video buffering	
Shutter speed	1/143000 to 1 s		External output activation, day/night vision mode, play audio clip, status LED, WDR mode, defog mode, PTZ control	
Pan/Tilt/Zoom	Digital PTZ, uploadable PTZ driver (Pelco D pre-installed)	Data streaming	Event data	
System on chip	o (SoC)	Built-in	i-CS: Remote zoom and focus	
Model	ARTPEC-6	installation aids	Other lens: Remote back focus	
Memory	1 GB RAM, 512 MB Flash		Traffic wizard, pixel counter, levelling assistant, autorotation	
Video		Analytics	Inalizada	
Video compression	H.264 (MPEG-4 Part 10/AVC), Main, Baseline and High Profile Motion JPEG	Applications	Included AXIS Motion Guard, AXIS Fence Guard, AXIS Loitering Guard AXIS Video Motion Detection, active tampering alarm, audio	
Resolution	1920x1080 to 320x180		detection Supported	
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		AXIS Digital Autotracking Support for additional applications if the device is used with compatible accessories. For more information, contact your Axis partner.	
Video streaming	Multiple, individually configurable streams in H.264 and Motion JPEG		Support for AXIS Camera Application Platform enabling installation of third-party applications, see axis.com/acap	
	Axis Zipstream technology in H.264 Controllable frame rate and bandwidth	Approvals		
Image settings	VBR/ABR/MBR H.264  Saturation, contrast, brightness, sharpness, Forensic WDR – 120 dB, white balance, day/night threshold, exposure mode, exposure zones, compression, orientation: auto, 0°, 90°, 180°, 270° including corridor format, mirroring of images, dynamic text overlay, image overlay, privacy masks, defogging, noise reduction, electronic image stabilization, barrel distortion correction,	EMC	EN 55032 Class A, EN 61000-3-2, EN 61000-3-3, 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 Korea: KCC KN32 Class A, KN35 USA: FCC Part 15 Subpart B Class A	
	orientation aid, fine tuning of behavior at low light	Safety	IEC/EN/UL 62368-1, IS 13252	
Audio	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 60068-2-7, IEC 60068-2-78	
Audio streaming	Two-way, full duplex	Network	NIST SP500-267	
Audio encoding	AAC-LC 8/16/32/48 kHz, G.711 PCM 8 kHz, G.726 ADPCM 8 kHz,	Cybersecurity	ETSI EN 303 645	
	Opus 8/16/48 kHz Configurable bit rate	Cybersecurity		
Audio input/output	External balanced/unbalanced microphone or line input, line output, built-in microphone, automatic gain control 24 bit AD/DA-conversion	Edge security	<b>Software:</b> Signed firmware, brute force delay protection, digest authentication and OAuth 2.0 RFC6749 OpenID Authorization Code Flow for centralized ADFS account management, password protection	
Network		Network security	IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2),	
Network protocols	IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTP/2, HTTPS, TLS, QoS Layer 3 DiffServ, FTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP <sup>TM</sup> , SNMPv1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, NTS, RTSP, RTP, SFTP, SRTP/RTSPS, TCP, UDP, IGMPv1/v2/v3, RTCP, ICMP,		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	
	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	
System integra			AXIS OS Software Bill of Material (SBOM)	
Application Programming Interface	Open API for software integration, including VAPIX® and AXIS Camera Application Platform; specifications at axis.com One-Click Cloud Connection ONVIF® Profile G, ONVIF® Profile M, ONVIF® Profile S, and		To download documents, go to axis.com/support/cybersecu- rity/resources To read more about Axis cybersecurity support, go to axis.com/cybersecurity	
Event conditions	ONVIF® Profile T, specifications at <i>onvif.org</i> Analytics, external input, edge storage events, virtual inputs	General	Matal (sina)	
	Analytics, external input, edge storage events, virtual inputs through API Audio: audio detection	Casing	Metal (zinc) Color lid: Silver - RAL 9006 Color chassi: Black - NCS S 9000-N	
		Sustainability	PVC free	

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Power	Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 1 Class 3 Typical 4.5 W, max 9.1 W 8–28 V DC, typical 4.3 W, max 9.5 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)
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	-20 °C to 60 °C (-4 °F to 140 °F) Humidity 10–85% RH (non-condensing)
Storage conditions	-40 °C to 65 °C (-40 °F to 149 °F) Humidity 5–95% RH (non-condensing)
Dimensions	82 x 66 x 210 mm (3.23 x 2.60 x 8.25 in)
Weight	950 g (2.1 lb)

Included accessories	Stand, 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 T92G Housings, AXIS T93F Housings, Axis network cable couplers, AXIS T8129 PoE Extender, AXIS T8415 Wireless Installation Tool, Axis midspans For more accessories, see axis.com
Video AXIS Companion, AXIS Camera Station, video management software from Axis Application Development Partners avait 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

