

AXIS Q1700-LE License Plate Camera

Dedicated camera for sharp images at high speeds

AXIS Q1700-LE License Plate Camera delivers clear and sharp license plate images from vehicles moving at speeds of up to 130 km/h (81 mph) day and night. Thanks to a built-in license plate capture assistant, the camera is easy to setup and image settings are automatically adjusted to fit speed, installation height and vehicle distance in a specific traffic scene. A robust design ensures reliable operation in extreme weather conditions and in wind forces up to hurricane level. The camera is designed for usage with third-party edge or server-based software to perform license plate recognition and trigger actions.

- > Sharp license plates in HDTV 1080p / 2 MP
- > Optimized IR range up to 50 m (164 ft)
- > 8x optical zoom
- > Horizontal field of view of 16° - 2.3°
- > Designed for third-party software



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Camera		Network	
Image sensor	1/2.8" progressive scan RGB CMOS	Network protocols	IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTP/2, HTTPS, TLS, QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP®, 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)
Lens	18–137 mm, F2.9–4.0 Horizontal field of view: 16°–2.3° Vertical field of view: 9.6°–1.3° Installation focus, auto-iris, automatic day/night Thread for 62 mm filters, max filter thickness: 5 mm	System integration	
Day and night	Automatically removable infrared-cut filter in day mode and infrared-pass filter 720 nm in night mode	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 ONVIF® Profile T, specification at onvif.org
Minimum illumination	Color: 0.16 lux at 50 IRE F1.4 B/W: 0.03 lux at 50 IRE F1.4, 0 lux with IR illumination on	Event conditions	Analytics, edge storage events MQTT subscribe Supervised external input, virtual inputs through API, shock detection, video motion detection, audio detection, active tampering
Shutter speed	1/66500 s to 1 s	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
License Plate Capture		Data streaming	Event data
Detection range	Day: 20–100 m (66–328 ft) Night: 20–50 m (66–164 ft) Night detection range up to 100 m (328 ft) with optional accessory AXIS T90D20 IR-LED Illuminator	Built-in installation aids	License plate capture assistant, remote zoom, pixel counter, leveling assistant, autorotation
IR illumination	OptimizedIR with power-efficient, long-life 850 nm IR LED's with adjustable angle of illumination and intensity. Range of reach 40 m (131 ft) in wide field of view and 50 m (164 ft) in full tele view, or more depending on the scene	Analytics	
Vehicle speed	Up to 130 km/h (81 mph) with optional edge analytics Up to 250 km/h (155 mph) with server based analytics	Applications	Included AXIS Motion Guard, AXIS Fence Guard, AXIS Loitering Guard Gatekeeper Support for AXIS Camera Application Platform enabling installation of third-party applications, see axis.com/acap
Coverage	Single lane with optional edge analytics Two lanes with server based analytics	Cybersecurity	
Installation	Mounting height: Up to 10 m (33 ft) Distance from road: Up to 10 m (33 ft) Camera detects tilt and roll angle automatically Built-in licence plate capture assistant optimizes video settings based on mounting height, distance to vehicle, and expected vehicle speed	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
System on chip (SoC)		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
Model	ARTPEC-6	Documentation	<i>AXIS OS Hardening Guide</i> <i>Axis Vulnerability Management Policy</i> <i>Axis Security Development Model</i> AXIS OS Software Bill of Material (SBOM) To download documents, go to axis.com/support/cybersecurity/resources To read more about Axis cybersecurity support, go to axis.com/cybersecurity
Memory	1024 MB RAM, 512 MB Flash	General	
Video		Casing	IP66- 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 Wind survivability 60 m/s (134 mph) Color: Dark Gray NCS S 5502-B (Weathershield: Black)
Video compression	H.264 (MPEG-4 Part 10/AVC) Baseline, Main and High Profiles Motion JPEG	Sustainability	PVC free, 5% recycled plastic
Resolution	1920x1080 HDTV 1080p to 160x120 Maximum pixel density with 8x optical zoom: 25 m (82 ft): 1912 px/m 50 m (164 ft): 956 px/m 250 m (820 ft): 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	With WDR: Up to 25/30 fps (50/60 Hz) in all resolutions Without WDR: 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	
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°, 180° Scene profiles: license plate, forensic, vivid, traffic overview	OptimizedIR with power-efficient, long-life 850 nm IR LED's with adjustable angle of illumination and intensity. Range of reach 40 m (131 ft) in wide field of view and 50 m (164 ft) in full tele view, or more depending on the scene	
Pan/Tilt/Zoom	8x optical zoom, preset positions		
Audio			
Audio streaming	Audio in, simplex Two-way audio via edge-to-edge technology		
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		

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 axis.com	Network NIST SP500-267
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)	Dimensions Length: 439 mm (17.3 in) ø 147 mm (5.8 in)
Storage conditions	-40 °C to 65 °C (-40 °F to 149 °F) Humidity 5-95% RH (non-condensing)	Weight 2.4 kg (5.3 lb)
Approvals	EMC 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 Safety IEC/EN/UL 62368-1, IEC/EN/UL 60950-22, EN/IEC 62471, IS 13252 Environment EN 50581, 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, IEC/EN 62262 IK10 body, IK08 glass, NEMA 250 Type 4X, NEMA TS 2 (2.2.7-2.2.9)	Included accessories Installation Guide, Windows® decoder 1-user license, connector kit, Resistorx® L-key RJ45 patch cable
		Optional accessories AXIS T90D20 IR-LED Illuminator - for night time capture range at up to 100 m (328 ft) AXIS T8604 Media Converter Switch AXIS T91A47 Pole Mount, AXIS T94P01B Corner Bracket For more accessories, see axis.com
		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