

## **AXIS Q1656-LE Box Camera**

## Outstanding performance in 4 MP

With 4 MP resolution at up to 60 fps, a 1/1.8" sensor, and Lightfinder 2.0, AXIS Q1656-LE delivers exceptional video quality even in poor light conditions. Plus, a built-in wiper ensures great images in all weather conditions. Based on the latest Axis system-on-chip (SoC), it offers support for advanced features and powerful applications based on deep learning on the edge. And, AXIS Object Analytics offers highly nuanced object classification. This outdoor-ready camera includes premium Q-line functionality and support for PoE and redundant DC power. Furthermore, enhanced security functionality prevents unauthorized access and safeguards your system.

- > Exceptional images with 1/1.8" sensor
- > Support for analytics with deep learning
- > Enhanced security features
- > Premium Axis Q-line camera functionality
- > Built-in wiper for snow and rain







## AXIS Q1656-LE Box Camera

Camera	1/1.8" progressive scan RGB CMOS		IGMPv1/v2/v3, RTCP, ICMP, DHCPv4/v6, ARP, SOCKS, SSH, LLDP, MQTT v3.1.1, Syslog
Image sensor 1/1.8" progressive scan RGB CMOS  Lens Varifocal, 3.9–10 mm, F1.5		System integration	
	Horizontal field of view: 113°-47° Vertical field of view: 60°-27° Autofocus, i-CS lens, IR corrected, remote zoom and focus, P-Iris control Minimum focus distance: 0.5 m (1.6 ft)	Application Programming Interface	Open API for software integration, including VAPIX® and AXIS Camera Application Platform; specifications at <i>axis.com</i> One-click cloud connection ONVIF® Profile G, ONVIF® Profile M, ONVIF® Profile S, and ONVIF® Profile T, specification at <i>onvif.org</i>
Day and night  Minimum illumination	Automatically removable infrared-cut filter  4 MP 25/30 fps with Forensic WDR and Lightfinder 2.0 Color: 0.05 lux at 50 IRE, F1.5 B/W: 0.01 lux at 50 IRE, F1.5 4 MP 50/60 fps with Lightfinder 2.0 Color: 0.1 lux at 50 IRE, F1.5 B/W: 0.02 lux at 50 IRE, F1.5 4 MP 25/30 fps with Forensic WDR and Lightfinder 2.0 With optional F0.9 lens Color: 0.02 lux at 50 IRE, F0.9 B/W: 0.004 lux at 50 IRE, F0.9	Onscreen controls  Event conditions	
Shutter speed	0 lux with IR illumination on		events, virtual inputs through API Audio: audio detection Device status: above operating temperature, above or below
System on chip	·		operating temperature, below operating temperature, IP address removed, network lost, new IP address, shock detected, storage
Model	ARTPEC-8		failure, system ready, within operating temperature, casing open
Memory	2048 MB RAM, 8194 MB Flash		Edge storage: recording ongoing, storage disruption I/O: digital input, manual trigger, virtual input
Compute capabilities	Deep learning processing unit (DLPU)	PTZ: PTZ malfunctioning, PTZ movement, PTZ preset position reached, PTZ ready	PTZ: PTZ malfunctioning, PTZ movement, PTZ preset position reached, PTZ ready
Video			Scheduled and recurring: scheduled event Video: live stream open
Video compression	H.264 (MPEG-4 Part 10/AVC) Baseline, Main and High Profiles H.265 (MPEG-H Part 2/HEVC) Main Profile Motion JPEG	Event actions	·
Resolution	<b>16:9</b> 2688x1512 Quad HD to 160x90 <b>4:3</b> 2016x1512 to 160x120		
Frame rate	No WDR: Up to 60/50 fps (60/50 Hz) in all resolutions WDR: Up to 30/25 fps (60/50 Hz) in all resolutions		
Video streaming	Multiple, individually configurable streams in H.264, H.265 and Motion JPEG Axis Zipstream technology in H.264 and H.265 Controllable frame rate and bandwidth	Data atronomina	preset
		Data streaming Built-in	Event data  Remote zoom and focus, remote back focus, leveling assistant,
	VBR/ABR/MBR H.264/H.265 Video streaming indicator	installation aids	pixel counter
Multi-view streaming	Up to 8 individually cropped out view areas	Analytics AXIS Object Analytics	Object classes: humans, vehicles (types: cars, buses, trucks,
Image settings	Saturation, contrast, brightness, Forensic WDR: Up to 120 dB depending on scene, white balance, day/night threshold, tone mapping, exposure mode, exposure zones, defogging, barrel distortion correction, electronic image stabilization, compression, rotation: 0°, 90°, 180°, 270° including Corridor Format, mirroring, dynamic text and image overlay, polygon privacy mask	Analytics	bikes) Trigger conditions: line crossing, object in area Up to 10 scenarios Metadata visualized with color-coded bounding boxes Polygon include/exclude areas Perspective configuration ONVIF Motion Alarm event
Pan/Tilt/Zoom	Digital PTZ, 2.5x optical zoom, preset positions Uploadable PTZ driver (Pelco D pre-installed)	Applications	Included AXIS Object Analytics
Audio	Tue way full dualay		AXIS Video Motion Detection Supported
Audio streaming	Two-way, full duplex Noise reduction		Support for AXIS Camera Application Platform enabling installation of third-party applications, see axis.com/acap
Audio encoding	24bit LPCM, AAC-LC 8/16/32/48 kHz, G.711 PCM 8 kHz, G.726 ADPCM 8 kHz, Opus 8/16/48 kHz	General	
	Configurable bit rate	Casing	IP66-, IP67-, and NEMA 4X-rated, IK10 impact-resistant aluminum enclosure with integrated dehumidifying membrane
Audio input/output	External microphone input or line input, line output, ring power, digital audio input, automatic gain control		IKO8 impact-resistant glass front window with wiper weathershield with black anti-glare coating
Network			Color: white NCS S 1002-B For repainting instructions, go to the product's support
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, brute force delay protection, signed firmware, secure boot, signed video, Axis Edge Vault, Axis device ID, secure keystore (CC EAL4 certified), TPM (FIPS 140-2 certified)		page. For information about the impact on warranty, go to axis.com/warranty-implication-when-repainting.
		Sustainability Power	PVC free, BFR/CFR free, 2% recycled plastics, 7% bio-based plastics  Payer over Ethernet (PGE) IEEE 003 20f/003 20t Typo 3 Close 4
Supported protocols	IPv4, IPv6 USGv6, HTTP, HTTPS <sup>a</sup> , HTTP/2, TLS <sup>a</sup> , QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, Bonjour, UPnP <sup>b</sup> , SNMP v1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, RTSP, RTP, SRTP, TCP, UDP,	TOWEI	Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 2 Class 4 Typical 11.8 W, max 25.5 W 10–28 V DC, typical 11.2 W, max 25.5 W

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	Power redundancy
Connectors	RJ45 10BASE-T/100BASE-TX/1000BASE-T PoE Terminal block for two supervised and two unsupervised configurable inputs / digital outputs (12 V DC output, max load 50 mA) RS485/RS422, 2 pcs, 2 pos, full duplex, terminal block DC input, 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 and 940 nm IR LEDs 850 nm: Range of reach 50 m (164 ft) or more depending on the scene 940 nm: Range of reach 40 m (131 ft) or more depending on the scene
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
Operating conditions	-40 °C to 60 °C (-40 °F to 140 °F) Arctic Temperature Control: Start-up at -40 °C (-40 °F) Maximum temperature according to NEMA TS 2 (2.2.7): 74 °C (165 °F) Humidity 10–100% RH (condensing)
Storage conditions	-40 °C to 65 °C (-40 °F to 149 °F) Humidity 5–95% RH (non-condensing)
Approvals	EMC CISPR 24, CISPR 35, EN 55032 Class A, EN 55035, EN 61000-3-2, EN 61000-3-3, EN 61000-6-1, EN 61000-6-2, FCC Part 15 Subpart B Class A, ICES-3(B)/NMB-3(B), EN 50121-4, IEC 62236-4, KS C 9832 Class A, KS C 9815, KS C 9835, KS C 9547, RCM AS/NZS CISPR 32 Class A, VCCI Class A Safety

	IEC/EN/UL 62368-1, IEC/EN/UL 60950-22, IEC 62471 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/IP67, IEC/EN 62262 IK10, NEMA 250 Type 4X, NEMA TS 2 (2.2.7-2.2.9), ISO 21207 (Method B) Network NIST SP500-267
Dimensions	404 x 159 x 182 mm (16 x 6.3 x 7.2 in)
Weight	4.4 kg (9.7 lb)
Included accessories	AXIS T94Q01A Wall Mount, sunshield, connector kit, resistorx® T20 tool, installation guide, Windows® decoder 1-user license
Optional accessories	AXIS T8415 Wireless Installation Tool AXIS Surveillance Cards For more accessories, see <i>axis.com</i>
Optional lenses	Lens CS 4-10 mm F0.9 P-Iris Lens i-CS 9-50 mm F1.5 8 MP Lens CS 12-50 mm F1.4 P-Iris 8 MP
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, Polish, Traditional Chinese
Warranty	5-year warranty, see axis.com/warranty

a. 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).

Environmental responsibility:

axis.com/environmental-responsibility

