

AXIS Q1809-LE Bullet Camera All-in-one 41 MP camera for extreme detail

Built on a dual Axis system-on-chip, this all-in-one, outdoor-ready bullet camera delivers superior 41 MP resolution. And a 4/3" image sensor ensures exceptional low-light performance. It's available with a wide lens for open areas or a tele lens for surveillance from a distance. Enclosed in a robust aluminum casing, it includes a mounting arm for easy installation. Plus, a spacious back box ensures secure cable management. Axis Edge Vault, a hardware-based cybersecurity platform, safeguards the device and offers FIPS 140-3 Level 3 certified secure key storage and operations. Furthermore, PoE out lets you connect and power another device without additional cabling.

- > Out-of-the-box and outdoor-ready
- > Superior image quality in 8K
- > High light-sensitive 4/3" sensor
- > Wide or tele Canon lens
- > Built-in cybersecurity with Axis Edge Vault







AXIS Q1809-LE Bullet Camera

Camera			compression, mirroring, text and image overlay, dynamic text and	
Variants	AXIS Q1809-LE AXIS Q1809-LE 150 mm		image overlay, privacy masks, polygon privacy mask Scene profiles: forensic, vivid	
Image sensor	4/3" progressive scan RGB CMOS	Image processing	Axis Zipstream, Lightfinder, OptimizedIR	
-	Pixel size 2.315 µm	Pan/Tilt/Zoom	Digital PTZ	
Lens	24 mm lens:	Audio		
	Varifocal, 12-24 mm, F2.0-3.0 8K Horizontal field of view: 90°-44° Vertical field of view: 49°-25° 41 MP	Audio features	Automatic gain control Speaker pairing Spectrum visualizer ^c 10-band graphic equalizer for audio input	
	Horizontal field of view: 87°-42° Vertical field of view: 64°-32° Minimum focus distance: 1.5 m (4.9 ft) Remote zoom and focus, P-Iris control 150 mm lens:	Audio input	Input for external unbalanced microphone, optional 5 V microphone power Digital input, optional 12 V ring power Unbalanced line input Microphone pairing	
	Varifocal, 50-150 mm, F4.0	Audio output	Output through speaker pairing	
	8K Horizontal field of view: 21°-7° Vertical field of view: 12°-4° 41 MP	Audio encoding	24bit LPCM, AAC-LC 8/16/32/44.1/48 kHz, G.711 PCM 8 kHz, G.726 ADPCM 8 kHz, Opus 8/16/48 kHz Configurable bitrate	
	Horizontal field of view: 20°-6.6°	Network		
	Vertical field of view: 15°–5° Minimum focus distance: 5 m (16.4 ft) Remote zoom and focus, P-Iris control	Network protocols	IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPS ^d , HTTP/2, TLS ^e , QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP [®] , SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, NTS,	
Day and night Minimum	Automatically removable IR-cut filter in day mode and IR-pass filter 800–900 nm in night mode 24 mm lens:		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)	
illumination	Color: 0.12 lux at 50 IRE, F2.0	System integra	tion	
	B/W: 0.02 lux at 50 IRE, F2.0 0 lux with IR illumination on 150 mm lens:	Application Programming	Open API for software integration, including VAPIX®, metadata and AXIS Camera Application Platform (ACAP); specifications at	
	Color: 0.2 lux at 50 IRE, F4.0 B/W: 0.04 lux at 50 IRE, F4.0 0 lux with IR illumination on	Interface	axis.com/developer-community. One-click cloud connection ONVIF® Profile G, ONVIF® Profile M, ONVIF® Profile S, and ONVIF® Profile T, specifications at <i>onvif.org</i>	
Shutter speed	4:3: 1/10500 s to 2 s 16:9: 1/15500 s to 2 s Pan ±180°, tilt 0 to -90°, roll -90 to 270°	Video management	Compatible with AXIS Camera Station Edge, AXIS Camera Station Pro, AXIS Camera Station 5, and video management software	
Camera adjustment	$ran \pm 180$, the 0 to -30, ton -30 to 270	systems	from Axis' partners available at axis.com/vms.	
System on chip	n (SoC)	Onscreen controls	Autofocus Image stabilization	
Model	ARTPEC-8 (x2)		Day/night shift	
Memory	4096 MB RAM (x2), 8192 MB Flash		Defog Video streaming indicator	
Compute	Deep learning processing unit (DLPU)		IR illumination	
capabilities			Privacy masks Media clip	
Video		Edge-to-edge	Microphone pairing	
Video compression	H.264 (MPEG-4 Part 10/AVC) Baseline, Main and High Profiles H.265 (MPEG-H Part 2/HEVC) Main Profile ^a Motion JPEG	Event conditions	Speaker pairing Device status: above/below operating temperature, IP address	
Resolution	4:3: 7424x5568 16:9: 7680x4320 21:9: 7680x3240		blocked, IP address removed, live stream active, in address blocked, IP address, ring power overcurrent protection, system read within operating temperature Digital audio: digital signal contains Axis metadata, digital sign	
Frame rate	Up to 30 fps (50/60 Hz) in 8K mode Up to 15 fps (50/60 Hz) in 41 MP mode		has invalid sample rate, digital signal missing, digital signal okay Edge storage: recording ongoing, storage disruption, storage	
Video streaming	Up to 20 unique and configurable video streams ^b Axis Zipstream technology in H.264 and H.265 Controllable frame rate and bandwidth VBR/ABR/MBR H.264/H.265 Low latency mode		health issues detected I/O: digital input is active, manual trigger, virtual input MQTT: stateless Scheduled and recurring: schedule Video: average bitrate degradation, day-night mode, tampering	
	Video streaming indicator	Event actions	Day-night mode	
Signal-to-noise ratio	>55 dB		Defog I/O Illumination Images: FTP, HTTP, HTTPS, SFTP, email and network MQTT Notification: HTTP, HTTPS, TCP and email Overlay text Recordings Security: erase configuration	
WDR	Dynamic contrast			
Multi-view streaming	Up to 8 individually cropped out view areas			
Noise reduction	Spatial filter (2D noise reduction) Temporal filter (3D noise reduction)			
Image settings	Saturation, contrast, brightness, sharpness, white balance, day/night threshold, local contrast, tone mapping, exposure		SNMP trap messages Video clips: FTP, HTTP, HTTPS, SFTP, email and network	

Built-in installation aids	Pixel counter, remote zoom and focus, level grid, leveling assistant		
Analytics			
Applications	Included AXIS Video Motion Detection, active tampering alarm, audio detection Supported Support for AXIS Camera Application Platform enabling installation of third-party applications, see axis.com/acap		
Approvals			
Product markings	CSA, UL/cUL, CE, KC, EAC, VCCI, RCM		
Supply chain	TAA compliant		
ЕМС	CISPR 35, CISPR 32 Class A, EN 55035, EN 55032 Class A, EN 50121-4, EN 61000-6-1, EN 61000-6-2 Australia/New Zealand: RCM AS/NZS CISPR 32 Class A Canada: ICES(A)/IMB(A) Japan: VCCI Class A Korea: KS C 9835, KS C 9832 Class A USA: FCC Part 15 Subpart B Class A Railway: IEC 62236-4		
Safety	CAN/CSA C22.2 No. 62368-1 ed. 3, IEC/EN/UL 62368-1 ed. 3, IEC/EN 62471 risk group 2, IS 13252		
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 body, IK08 glass, NEMA 250 Type 4X, NEMA TS 2 (2.2.7-2.2.9)		
Network	NIST SP500-267		
Cybersecurity	ETSI EN 303 645, BSI IT Security Label, FIPS 140		
Cybersecurity			
Edge security	Software: Signed OS, brute force delay protection, digest authentication and OAuth 2.0 RFC6749 OpenID Authorization Code Flow for centralized ADFS account management, password protection Hardware: Axis Edge Vault cybersecurity platform Secure element (CC EAL 6+, FIPS 140–3 Level 3), system-on-chip security (TEE), Axis device ID, secure keystore, signed video, secure boot, encrypted filesystem (AES-XTS-Plain64 256bit)		
Network security	IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2) ^f , IEEE 802.1AE (MACsec PSK/EAP-TLS), IEEE 802.1AR, HTTPS/HSTS ⁹ , TLS v1.2/v1.3 ^h , Network Time Security (NTS), X.509 Certificate PKI, host-based firewall		
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/cybersecu- rity/resources To read more about Axis cybersecurity support, go to axis.com/cybersecurity		
General			
Casing	IP66-, IP67-, and NEMA 4X-rated IK10 impact-resistant aluminum enclosure with integrated dehumidifying membranes, IK08 impact-resistant glass front window, weathershield with black anti-glare coating Color: white NCS S 1002-B, black NCS S 9000-N For repainting instructions, go to the product's support page. For information about the impact on warranty, go to <i>axis.com/warranty-implication-when-repainting</i> .		
Power	Power over Ethernet (PoE) IEEE 802.3at Type 2 Class 4, typical 18.9 W, max 25.5 W Power over Ethernet (PoE) IEEE 802.3bt Type 3 Class 6, typical 18.9 W, max 51 W Midspan 60 W, IEEE 802.3bt Type 3 Class 6, required for PoE out IEEE 802.3at Type 2 Class 4 (30 W) to a second device 10–28 V DC, typical 17.6 W, max 35 W 20–24 V AC, typical 25 VA, max 33 VA Features: power profiles, power meter		
Connectors	Network: Shielded RJ45 10BASE-T/100BASE-TX/1000BASE-T POE, RJ45 1000BASE-T POE output to power an external POE device I/O: 4-pin 2.5 mm terminal block for 1 alarm input and 1 output Audio: 3.5 mm mic/line in Power: DC input		

IR illumination	24 mm lens: OptimizedIR with power-efficient, long-life 850 nm IR LEDs and white LED combo Range of reach 60 m (197 ft) or more depending on the scene 150 mm lens: OptimizedIR with power-efficient, long-life 850 nm IR LEDs Range of reach 100 m (328.1 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 <i>axis.com</i>	
Operating conditions	Temperature with 30 W: -20 °C to 55 °C (4 °F to 131 °F) Temperature with 60 W: -40 °C to 55 °C (-40 °F to 131 °F) Maximum temperature according to NEMA TS 2 (2.2.7.3 – 2.2.7.7): 74 °C (165 °F) Humidity: 10–100% RH (condensing) Wind load (sustained): 60 m/s (134 mph)	
Storage conditions	Temperature: -40 °C to 65 °C (-40 °F to 149 °F) Humidity: 5–95% RH (non-condensing)	
Dimensions	For the overall product dimensions, see the dimension drawing	
	in this datasheet. 24 mm lens: Effective Projected Area (EPA): 0.0455 m ² (0.49 ft ²) 150 mm lens: Effective Projected Area (EPA): 0.0478 m ² (0.51 ft ²)	
Weight	24 mm lens camera: 3.4 kg (7.50 lb) 150 mm lens camera: 3.2 kg (7.05 lb)	
Box content	Camera, installation guide, terminal block connector, RJ45 cable, connector guard, cable gaskets, owner authentication key	
Optional accessories	AXIS T8415 Wireless Installation Tool AXIS Surveillance Cards For more accessories, go to axis.com/products/axis-q1809- le#accessories	
System tools	AXIS Site Designer, AXIS Device Manager, product selector, accessory selector, lens calculator Available at <i>axis.com</i>	
Languages	English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Polish, Traditional Chinese, Dutch, Czech, Swedish, Finnish, Turkish, Thai, Vietnamese	
Languages Warranty	Chinese, Japanese, Korean, Portuguese, Polish, Traditional Chinese, Dutch, Czech, Swedish, Finnish, Turkish, Thai,	
Warranty Part numbers	Chinese, Japanese, Korean, Portuguese, Polish, Traditional Chinese, Dutch, Czech, Swedish, Finnish, Turkish, Thai, Vietnamese	
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Warranty Part numbers	Chinese, Japanese, Korean, Portuguese, Polish, Traditional Chinese, Dutch, Czech, Swedish, Finnish, Turkish, Thai, Vietnamese 5-year warranty, see <i>axis.com/warranty</i>	
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Detect, Observe, Recognize, Identify (DORI)

Table 1. Q1809-LE

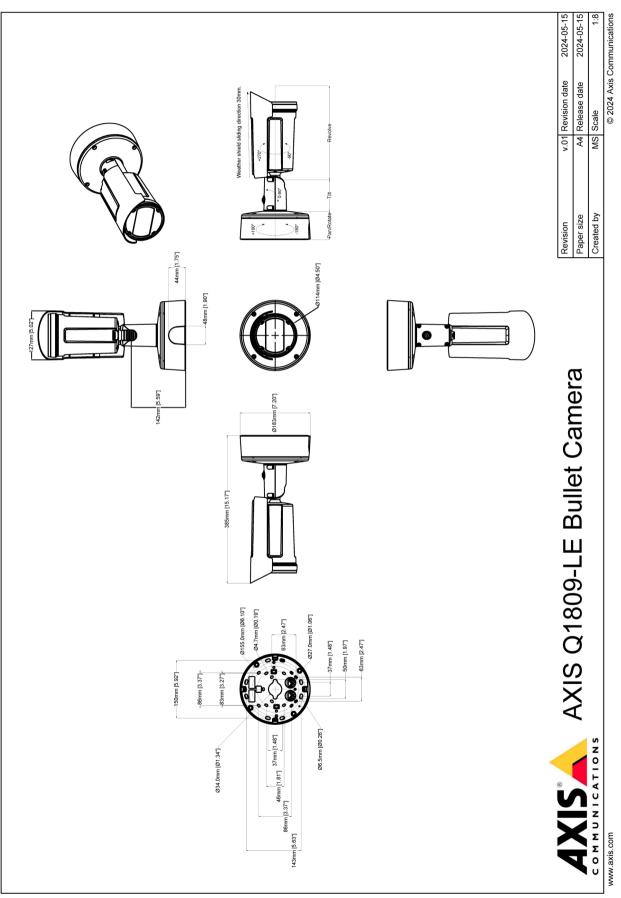
	DORI definition	Distance (wide)	Distance (tele)
Detect	25 px/m (8 px/ft)	210.8 m (691.4 ft)	407.1 m (1335.3 ft)
Observe	63 px/m (19 px/ft)	83.6 m (274.2 ft)	161.6 m (530.0 ft)
Recognize	125 px/m (38 px/ft)	42.2 m (138.4 ft)	81.4 m (267.0 ft)
ldentify	250 px/m (76 px/ft)	21.0 m (68.9 ft)	40.7 m (133.5 ft)

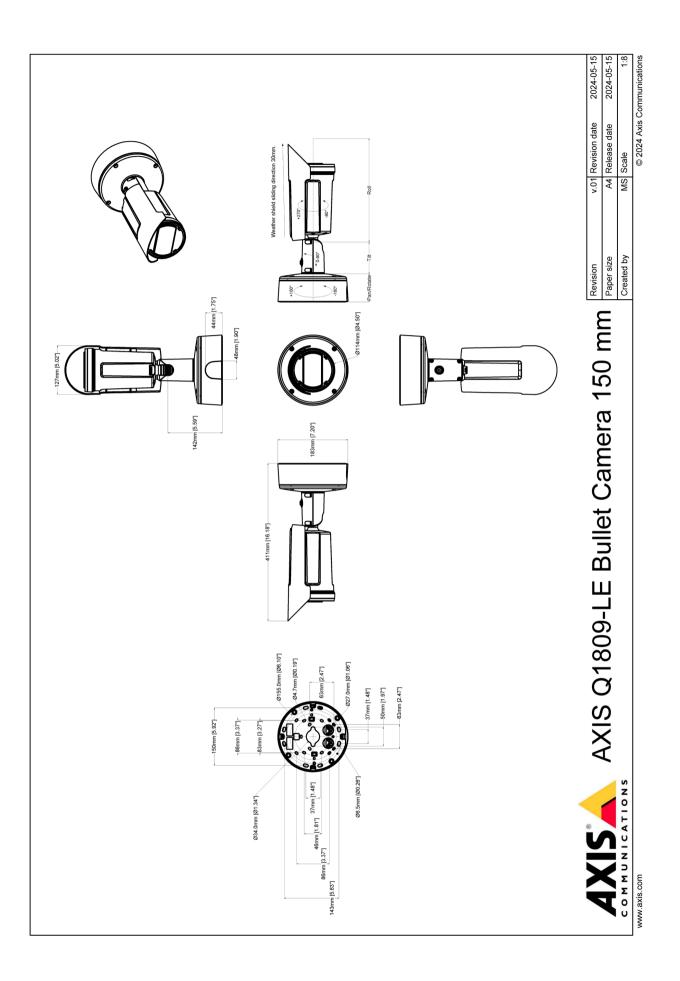
Table 2. Q1809-LE 150 mm

	DORI definition	Distance (wide)	Distance (tele)
Detect	25 px/m (8 px/ft)	853.8 m (2800.5 ft)	2551.6 m (8369.2 ft)
Observe	63 px/m (19 px/ft)	338.8 m (1111.3 ft)	1012.6 m (3321.3 ft)
Recognize	125 px/m (38 px/ft)	170.8 m (560.2 ft)	510.2 m (1673.5 ft)
Identify	250 px/m (76 px/ft)	85.4 m (280.1 ft)	255.2 m (837.1 ft)

The DORI values are calculated using pixel densities for different use cases as recommended by the EN-62676-4 standard. The calculations use the center of the image as the reference point and consider lens distortion. The possibility to recognize or identify a person or object depends on factors such as object motion, video compression, lighting conditions, and camera focus. Use margins when planning. The pixel density varies across the image, and the calculated values can differ from the distances in the real world.

Dimension drawings





Highlighted capabilities

Axis Edge Vault

Axis Edge Vault is the hardware-based cybersecurity platform that safequards the Axis device. It forms the foundation that all secure operations depend on and offer features to protect the device's identity, safeguard its integrity and protect sensitive information from unauthorized access. For instance, secure boot ensures that a device can boot only with signed OS, which prevents physical supply chain tampering. With signed OS, the device is also able to validate new device software before accepting to install it. And the secure keystore is the critical building-block for protecting cryptographic information used for secure communication (IEEE 802.1X, HTTPS, Axis device ID, access control keys etc.) against malicious extraction in the event of a security breach. The secure keystore and secure connections are provided through a Common Criteria or FIPS 140 certified hardware-based cryptographic computing module.

Furthermore, signed video ensures that video evidence can be verified as untampered. Each camera uses its unique video signing key, which is securely stored in the secure keystore, to add a signature into the video stream allowing video to be traced back to the Axis camera from where it originated.

To read more about Axis Edge Vault, go to axis.com/solutions/edge-vault.

Electronic image stabilization

Electronic image stabilization (EIS) provides smooth video in situations where a camera is subject to vibrations. Built-in gyroscopic sensors continuously detect the camera's movements and vibrations, and they automatically adjust the frame to ensure you always capture the details you need. Electronic image stabilization relies on different algorithms

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for modeling camera motion, which are used to correct the images.

Lightfinder

The Axis Lightfinder technology delivers high-resolution, full-color video with a minimum of motion blur even in near darkness. Because it strips away noise, Lightfinder makes dark areas in a scene visible and captures details in very low light. Cameras with Lightfinder discern color in low light better than the human eye. In surveillance, color may be the critical factor to identify a person, an object, or a vehicle.

OptimizedIR

Axis OptimizedIR provides a unique and powerful combination of camera intelligence and sophisticated LED technology, resulting in our most advanced camera-integrated IR solutions for complete darkness. In our pan-tilt-zoom (PTZ) cameras with OptimizedIR, the IR beam automatically adapts and becomes wider or narrower as the camera zooms in and out to make sure that the entire field of view is always evenly illuminated.

Zipstream

The Axis Zipstream technology preserves all the important forensic in the video stream while lowering bandwidth and storage requirements by an average of 50%. Zipstream also includes three intelligent algorithms, which ensure that relevant forensic information is identified, recorded, and sent in full resolution and frame rate.

For more information, see axis.com/glossary

