

AXIS Q1656-BLE Box Camera

Outdoor barebone model in 4 MP with IR

With 4 MP resolution at up to 60 fps, a 1/1.8" sensor, and Lightfinder 2.0, AXIS Q1656-BLE delivers exceptional video quality even in poor light conditions. Based on the latest Axis system-on-chip (SoC), it offers support for advanced features and applications based on deep learning on the edge. And AXIS Object Analytics provides highly nuanced object classification. With built-in cybersecurity features, it prevents unauthorized access and safeguards your system. This outdoor-ready barebone unit comes without lens and mounting for maximum flexibility. Furthermore, it includes power-efficient IR and white LED illumination.

- > Exceptional images with 1/1.8" sensor
- > Support for analytics with deep learning
- > Built-in cybersecurity features
- > Ready to customize for specific needs
- > Built-in wiper for snow and rain







AXIS Q1656-BLE Box Camera

Camera			IR illumination	
Image sensor	1/1.8" progressive scan RGB CMOS		Timed wiper Wiper	
Day and night	Automatically removable infrared-cut filter		Heater	
Minimum illumination	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 Lens not included 0 lux with IR illumination on	Event conditions Analytics, external input, supervised external input, edge stor events, virtual inputs through API Audio: audio detection Device status: above operating temperature, above or below operating temperature, lelow operating temperature, IP address, shock detected, storar failure, system ready, within operating temperature, casing of Video: tampering, average bitrate degradation, day-night mo		
Shutter speed	1/47500 s to 1 s		Edge storage: recording ongoing, storage disruption	
System on chip	o (SoC)		I/O: digital input, manual trigger, virtual input PTZ: PTZ malfunctioning, PTZ movement, PTZ preset position	
Model	ARTPEC-8		reached, PTZ ready Scheduled and recurring: scheduled event	
Memory	2048 MB RAM, 8194 MB Flash		Video: live stream open	
Compute capabilities	Deep learning processing unit (DLPU)	Event actions	Overlay text, external output activation, play audio clip, zoom preset	
Video	H 004 (MDEO 4 D 4 40/M/O) D 11 M 1 H 11 L D 51		I/O: toggle I/O once, toggle I/O while the rule is active Illumination: use lights, use lights while the rule is active	
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		MQTT: publish Notification: HTTP, HTTPS, TCP, and email Pre- and post-alarm video or image buffering for recording or	
Resolution	16:9 2688x1512 Quad HD to 160x90 4:3 2016x1512 to 160x120		upload PTZ: PTZ preset, start/stop guard tour	
Frame rate Video streaming	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 Multiple, individually configurable streams in H.264, H.265 and		Record video: SD card and network share SNMP traps: send, send while the rule is active Upload of images or video clips: FTP, SFTP, HTTP, HTTPS, networ	
video streaming	Motion JPEG Axis Zipstream technology in H.264 and H.265	Built-in installation aids	share, and email Remote back focus, leveling assistant, pixel counter i-CS lens: Remote zoom and focus	
	Controllable frame rate and bandwidth VBR/ABR/MBR H.264/H.265	Analytics	GO TELIST THE MORE EDGIN WITH THE MORE THE TELESTIC THE T	
	Low latency mode Video streaming indicator	Applications	Included	
Multi-view	Up to 8 individually cropped out view areas		AXIS Object Analytics, AXIS Scene Metadata, AXIS Live Privacy Shield ^a	
streaming Image settings	Saturation, contrast, brightness, Forensic WDR: Up to 120 dB		AXIS Video Motion Detection Support for AXIS Camera Application Platform enabling	
	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 Scene profiles: forensic, vivid, traffic overview	AXIS Object Analytics	installation of third-party applications, see axis.com/acap Object classes: humans, vehicles (types: cars, buses, trucks, bikes, other) Scenarios: line crossing, object in area, time in area, crossline counting, occupancy in area Up to 10 scenarios	
Pan/Tilt/Zoom	Digital PTZ, preset positions Uploadable PTZ driver (Pelco D pre–installed)		Other features: triggered objects visualized with color-coded bounding boxes Polygon include/exclude areas	
Audio	Tue way full dualay		Perspective configuration	
Audio streaming	Two-way, full duplex Noise reduction	AVIC C	ONVIF Motion Alarm event	
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 Configurable bit rate	AXIS Scene Metadata	Object classes: humans, faces, vehicles (types: cars, buses, trucks, bikes), license plates Object attributes: vehicle color, upper/lower clothing color, confidence, position	
Audio input/output	External microphone input or line input, line output, ring power, digital audio input, automatic gain control	Approvals		
Network	uigitai auulo iliput, autolliatic yalli collitol	EMC	EN 55032 Class A, EN 55035, EN 61000-3-2, EN 61000-3-3, EN 61000-6-1, EN 61000-6-2, EN 50121-4	
Network protocols System integra			61000-6-1, EN 61000-6-2, EN 50121-4 Istralia/New Zealand: CISPR 24, CISPR 35, MAS/NZS CISPR 32 Class A nada: ICES-3(A)/NMB-3(A) pan: VCCI Class A rea: KS C 9832 Class A, KS C 9815, KS C 9835, KS C 9547 SA: FCC Part 15 Subpart B Class A ilway: IEC 62236-4	
Application Programming	Open API for software integration, including VAPIX® and AXIS Camera Application Platform; specifications at axis.com	Safety	IEC/EN/UL 62368-1, IEC/EN/UL 60950-22, IEC 62471, IS 13252	
Interface	One-click cloud connection ONVIF® Profile G, ONVIF® Profile M, ONVIF® Profile S, and ONVIF® Profile T, specification at <i>onvif.org</i>	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)	
Onscreen controls	Electronic image stabilization Day/night shift	Network	NIST SP500-267	
	Defogging Wide dynamic range Video streaming indicator			

T10170082/EN/M20.2/2406 www.axis.com

Cybersecurity	ETSI EN 303 645, FIPS 140		RS485/RS422, 2 pcs, 2 pos, full d
Cybersecurity			DC input, terminal block, 3.5 mm i-CS connector (compatible with
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	IR illumination	OptimizedIR with power-efficient Range of reach 50 m (164 ft) or it
	protection, AES-XTS-Plain64 256bit SD card encryption Hardware: Axis Edge Vault cybersecurity platform TPM 2.0 (CC EAL4+, FIPS 140-2 Level 2), secure element (CC EAL 6+), system-on-chip security (TEE), Axis device ID, secure keystore, signed video, secure boot, encrypted filesystem (AES-XTS-Plain64 256bit)	Illumination LED	Power-efficient, long-life white I Range of reach 25 m (82 ft) or m
		Storage	Support for microSD/microSDHC/ Support for SD card encryption (Recording to network-attached s For SD card and NAS recommend
,	IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2), IEEE 802.1AE (MACsec PSK/EAP-TLS), IEEE 802.1AR, HTTPS/HSTS, TLS v1.2/v1.3, Network Time Security (NTS), X.509 Certificate PKI, host-based firewall	Operating conditions	-40 °C to 60 °C (-40 °F to 140 ° Arctic Temperature Control: Sta Maximum temperature according (165 °F)
Documentation	AXIS OS Hardening Guide Axis Vulnerability Management Policy		Humidity 10-100% RH (condens
	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	Storage conditions	-40 °C to 65 °C (-40 °F to 149 ° Humidity 5–95% RH (non-conde
		Dimensions	404 x 159 x 182 mm (16 x 6.3 x
		Weight	4.1 kg (9.0 lb)
General	axis.com/cybersecurity		Sunshield, connector kit, resistor. Windows® decoder 1-user license
Casing	IP66-, IP67-, and NEMA 4X-rated, IK10 impact-resistant aluminum enclosure with integrated dehumidifying membrane IK08 impact-resistant glass front window with wiper	Optional accessories	AXIS T8415 Wireless Installation AXIS Surveillance Cards For more accessories, see <i>axis.co</i>
	weathershield with black anti-glare coating Color: white NCS S 1002-B For repainting instructions, go to the product's support page. For information about the impact on warranty, go to axis.com/warranty-implication-when-repainting.	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 Lens i-CS 1/1.8" 3.9-10 mm F1.5
Sustainability	PVC free, BFR/CFR free, 2% recycled plastics, 7% bio-based plastics	Video management software	AXIS Camera Station and video n Application Development Partner
Power	Power over Ethernet (PoE) IEEE 802.3at Type 2 Class 4 Typical 11.8 W, max 12.95 W 10–28 V DC, typical 11.2 W, max 25.2 W Power redundancy	Languages	English, German, French, Spanish Chinese, Japanese, Korean, Portu Chinese, Dutch, Czech, Swedish, Vietnamese
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)	Warranty a. Available for dow	5-year warranty, see axis.com/wo

	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 IR LEDs Range of reach 50 m (164 ft) or more depending on the scene
Illumination LED	Power-efficient, long-life white LED Range of reach 25 m (82 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)
Dimensions	404 x 159 x 182 mm (16 x 6.3 x 7.2 in)
Weight	4.1 kg (9.0 lb)
Included accessories	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 axis.com
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 Lens i-CS 1/1.8" 3.9-10 mm F1.5
Video management software	AXIS Camera Station and 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, Dutch, Czech, Swedish, Finnish, Turkish, Thai, Vietnamese
Warranty	5-year warranty, see axis.com/warranty

