



دوربین مدار بسته

AXIS Q1800-LE

درباره ما

شرکت مهندسی مکسا مفتخر است که توانسته است طیف وسیعی از محصولات سخت افزاری مرتبط با حوزه امنیت کنترل تردد مانند انواع دوربین های مدار بسته، انواع دستگاه های حضور و غیاب، گیت های کنترل تردد، راهبندها، گیت ها و راکت های بازرسی بدنی و همچنین محصولات نرم افزاری شامل نرم افزار اکسس کنترل، نرم افزار جامع حراست، نرم افزار پلاک خوان و... را در اختیار کلیه کسب و کارهای بزرگ ایرانی قرار دهد.

چرا مکسا را انتخاب کنیم؟

- ✓ ۱ سال گارانتی محصولات
- ✓ ۵ سال وارانتی محصولات
- ✓ پشتیبانی فعال
- ✓ کارشناس حضوری
- ✓ تعمیر دوره ای
- ✓ تعویض دستگاه
- ✓ نصب تخصصی
- ✓ تیکت پشتیبانی

مشخصات

- ✓ سنسور تصویر: CMOS
- ✓ اندازه سنسور تصویر: ۱/۲،۸ اینچ
- ✓ محدوده دینامیکی گسترده: Forensic WDR
- ✓ حداکثر وضوح تصویر: ۱۹۲۰x۱۰۸۰
- ✓ حداکثر فریم در ثانیه: ۹۰
- ✓ فاصله کانونی: ۷ - ۱۳۸ میلی متر
- ✓ میدان دید افقی: ۳۸ - ۲/۳ °
- ✓ میدان دید عمودی: ۲۲ - ۱/۳ °
- ✓ توان (حداکثر): ۲۹،۰ وات
- ✓ توان (متوسط): ۱۱،۰ وات
- ✓ کلاس حفاظتی: IP۶۶
- ✓ دمای کارکرد: ۴۰- تا ۶۰ درجه سانتی گراد
- ✓ مجهز به سیستم عامل امضا شده، بوت امن و فوکوس از راه دور



Camera	
Image sensor	1/2.8" progressive scan RGB CMOS Pixel size 2.9 µm
Lens	Vari-focal, 7-137 mm, F1.5-4.0 Horizontal field of view: 38°-2.3° Vertical field of view: 22°-1.3° Minimum focus distance: 1.2 m (3.9 ft) Remote zoom and focus, P-Iris control Thread for 62 mm filters, max filter thickness: 5 mm
Day and night	Automatic IR-cut filter in day mode IR-pass filter 720 nm in night mode
Minimum illumination	Color: 0.06 lux at 50 IRE, F1.5 B/W: 0.01 lux at 50 IRE, F1.5 0 lux with IR illumination on
Shutter speed	1080p @ 25/30 fps (WDR): 1/37000 s to 2 s 1080p @ 50/60 fps: 1/71500 s to 2 s 1080p @ 90 fps: 1/111000 s to 2 s
Camera adjustment	Pan ±180°, tilt 0 to -90°, roll -90 to 270°
License Plate Capture	
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
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
Vehicle speed	Up to 200 km/h (124 mph) with optional edge analytics Up to 250 km/h (155 mph) with server based analytics
Coverage	Single lane with optional edge analytics Two lanes with server based analytics
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
System on chip (SoC)	
Model	ARTPEC-8
Memory	2048 MB RAM, 8192 MB Flash
Compute capabilities	Deep learning processing unit (DLPU)
Video	
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
Resolution	4:3: 1400x1050 to 160x120 16:9 1920x1080 to 320x180
Frame rate	With WDR: Up to 25/30 fps (50/60 Hz) in all resolutions No WDR: Up to 90 fps (50/60 Hz) in all resolutions
Video streaming	Up to 20 unique and configurable video streams ^a Axis Zipstream technology in H.264 and H.265 Controllable frame rate and bandwidth VBR/ABR/MBR H.264/H.265 Low latency mode Video streaming indicator
Signal-to-noise ratio	>55 dB
WDR	Forensic WDR: Up to 120 dB depending on scene
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 mode, exposure zones, defog, barrel distortion correction, compression, rotation: 0°, 90°, 180°, 270° including corridor

format, mirroring, text and image overlay, dynamic text and image overlay, polygon privacy mask, target aperture
Scene profiles: license plate

Image processing	Axis Zipstream, Forensic WDR, Lightfinder 2.0, OptimizedIR
Audio	
Audio features	Automatic gain control 10-band graphic equalizer for audio input Speaker pairing Spectrum visualizer ^b
Audio streaming	Two-way (half duplex)
Audio input	Input through microphone pairing Input for external unbalanced microphone, optional 5 V microphone power Digital input, optional 12 V ring power Unbalanced line input
Audio output	Output through speaker pairing
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 bit rate
Network	
Network protocols	IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPS ^c , HTTP/2, TLS ^c , QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP ^d , SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, NTS, RTSP, RTP, SRTP/RTSPS, TCP, UDP, IGMPv1/v2/v3, RTCP, DHCPv4/v6, SSH, LLDP, CDP, MQTT v3.1.1, Secure syslog (RFC 3164/5424, UDP/TCP/TLS), Link-Local address (ZeroConf)
System integration	
Application Programming Interface	Open API for software integration, including VAPIX [®] , metadata and AXIS Camera Application Platform (ACAP); specifications at axis.com/developer-community . One-click cloud connection ONVIF [®] Profile G, ONVIF [®] Profile M, ONVIF [®] Profile S, and ONVIF [®] Profile T, specifications at onvif.org
Video management systems	Compatible with AXIS Camera Station Edge, AXIS Camera Station Pro, AXIS Camera Station 5, and video management software from Axis' partners available at axis.com/vms .
Onscreen controls	Video streaming indicator Day/night shift Image stabilization Defog Autofocus Privacy masks Wide dynamic range IR illumination Media clip
Edge-to-edge	Microphone pairing Radar pairing Speaker pairing
Event conditions	Device status: above/below/within operating temperature, IP address blocked, IP address removed, live stream active, network lost, new IP address, ring power overcurrent protection, system ready, within operating temperature Digital audio: digital signal contains Axis metadata, digital signal has invalid sample rate, digital signal missing, digital signal okay Edge storage: recording ongoing, storage disruption, storage 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
Event actions	Day-night mode Defog I/O: toggle I/O once, toggle I/O while the rule is active Illumination: use lights, use lights while the rule is active Images: send images through FTP, HTTP, SFTP MQTT: publish Notification: HTTP, HTTPS, TCP and email Overlay text Recordings: SD card and network share SNMP traps: send, send while the rule is active Video clips: send video clips through FTP, HTTP, SFTP WDR mode



Built-in installation aids	Pixel counter, remote zoom and focus, level grid, leveling assistant, traffic camera installation assistance
Analytics	
Applications	<p>Included</p> <p>AXIS Object Analytics, AXIS Scene Metadata, AXIS Speed Monitor, AXIS Video Motion Detection, active tampering alarm, audio detection</p> <p>Supported</p> <p>AXIS License Plate Verifier</p> <p>Support for AXIS Camera Application Platform enabling installation of third-party applications, see axis.com/acap</p>
AXIS Object Analytics	<p>Object classes: humans, vehicles (types: cars, buses, trucks, bikes, other)</p> <p>Scenarios: line crossing, object in area, time in area, crossline counting, occupancy in area, motion in area, motion line crossing</p> <p>Up to 10 scenarios</p> <p>Other features: triggered objects visualized with trajectories, color-coded bounding boxes and tables</p> <p>Polygon include/exclude areas</p> <p>Perspective configuration</p> <p>ONVIF Motion Alarm event</p>
AXIS Scene Metadata	<p>Object classes: humans, faces, vehicles (types: cars, buses, trucks, bikes), license plates</p> <p>Object attributes: vehicle color, upper/lower clothing color, confidence, position</p>
Approvals	
Product markings	UL/cUL, BIS, UKCA, CE, KC, VCCI, RCM
Supply chain	TAA compliant
EMC	<p>CISPR 35, CISPR 32 Class A, EN 55035, EN 55032 Class A, EN 50121-4, EN 61000-3-2, EN 61000-3-3, EN 61000-6-1, EN 61000-6-2</p> <p>Australia/New Zealand: RCM AS/NZS CISPR 32 Class A</p> <p>Canada: ICES(A)/NMB(A)</p> <p>Japan: VCCI Class A</p> <p>Korea: KS C 9835, KS C 9832 Class A</p> <p>USA: FCC Part 15 Subpart B Class A</p> <p>Railway: IEC 62236-4</p>
Safety	CAN/CSA C22.2 No. 62368-1 ed. 3, IEC/EN/UL 62368-1 ed. 3, IEC/EN 62471 risk group exempt, IS 13252
Environment	<p>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)</p>
Network	NIST SP500-267
Cybersecurity	ETSI EN 303 645, FIPS 140
Cybersecurity	
Edge security	<p>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</p> <p>Hardware: Axis Edge Vault cybersecurity platform</p> <p>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)</p>
Network security	IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2) ^c , IEEE 802.1AE (MACsec PSK/EAP-TLS), IEEE 802.1AR, HTTPS/HSTS ^c , TLS v1.2/v1.3 ^c , Network Time Security (NTS), X.509 Certificate PKI, host-based firewall
Documentation	<p><i>AXIS OS Hardening Guide</i></p> <p><i>Axis Vulnerability Management Policy</i></p> <p><i>Axis Security Development Model</i></p> <p>AXIS OS Software Bill of Material (SBOM)</p> <p>To download documents, go to axis.com/support/cybersecurity/resources</p> <p>To read more about Axis cybersecurity support, go to axis.com/cybersecurity</p>
General	
Casing	<p>IP66 and NEMA 4X-rated</p> <p>IK10 impact-resistant aluminum enclosure with integrated dehumidifying membrane, IK08 impact-resistant glass front window</p> <p>Color: grey NCS S 5502-B, black NCS S 9000-N</p>

	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 .
Mounting	Mounting bracket with junction box holes (double-gang, single-gang, 4" square, and 4" octagon) 3/4" (M25) conduit side entries
Power	<p>Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 1 Class 3, typical 12.6 W, max 12.95 W (no IR, no heaters)</p> <p>Power over Ethernet (PoE) IEEE 802.3at Type 2 Class 4, typical 12.6 W, max 25.5 W</p> <p>Power over Ethernet (PoE) IEEE 802.3bt Type 3 Class 6, typical 12.6 W, max 51 W</p> <p>Midspan 60 W, IEEE 802.3bt Type 3 Class 6 required for PoE out</p> <p>IEEE 802.3at Type 2 Class 4 (30 W) to a second device</p> <p>10–28 V DC, typical 11 W, max 29 W</p> <p>20–24 V AC, typical 11 VA, max 28 VA</p> <p>Features: power profiles, power meter</p>
Connectors	<p>Network: Shielded RJ45 10BASE-T/100BASE-TX/1000BASE-T PoE, RJ45 1000BASE-T PoE output to power an external PoE device</p> <p>I/O: 4-pin 2.5 mm terminal block for two configurable supervised inputs / digital outputs (12 V DC output, max. load 50 mA)</p> <p>Audio: 3.5 mm mic/line in</p> <p>Power: DC input</p>
Storage	<p>Support for microSD/microSDHC/microSDXC card</p> <p>Support for SD card encryption (AES-XTS-Plain64 256bit)</p> <p>Recording to network-attached storage (NAS)</p> <p>For SD card and NAS recommendations see axis.com</p>
Operating conditions	<p>Temperature: -40 °C to 60 °C (-40 °F to 140 °F)</p> <p>Maximum temperature according to NEMA TS 2 (2.2.7): 74 °C (165 °F)</p> <p>Humidity: 10–85% RH (condensing)</p>
Storage conditions	<p>Temperature: -40 °C to 65 °C (-40 °F to 149 °F)</p> <p>Humidity: 5–95% RH (non-condensing)</p>
Dimensions	<p>For the overall product dimensions, see the dimension drawing in this datasheet.</p> <p>Effective Projected Area (EPA): 0.054 m² (0.58 ft²)</p>
Weight	3200 g (7.05 lb)
Box content	Camera, installation guide, terminal block connector, RJ45 cable, connector guard, cable gaskets, owner authentication key
Optional accessories	<p>AXIS T8415 Wireless Installation Tool</p> <p>AXIS Surveillance Cards</p> <p>For more accessories, go to axis.com/products/axis-q1800-le#accessories</p>
System tools	<p>AXIS Site Designer, AXIS Device Manager, product selector, accessory selector, lens calculator</p> <p>Available at axis.com</p>
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
Part numbers	Available at axis.com/products/axis-q1800-le#part-numbers
Sustainability	
Substance control	<p>PVC free, BFR/CFR free in accordance with JEDEC/ECA Standard JS709</p> <p>RoHS in accordance with EU RoHS Directive 2011/65/EU/ and 2015/863, and standard EN IEC 63000:2018</p> <p>REACH in accordance with (EC) No 1907/2006. For SCIP UID, see echa.europa.eu</p>
Materials	<p>Renewable carbon-based plastic content: 60% (recycled: 1%, bio-based: 59%)</p> <p>Screened for conflict minerals in accordance with OECD guidelines</p> <p>To read more about sustainability at Axis, go to axis.com/about-axis/sustainability</p>
Environmental responsibility	<p>axis.com/environmental-responsibility</p> <p>Axis Communications is a signatory of the UN Global Compact, read more at unglobalcompact.org</p>

- We recommend a maximum of 3 unique video streams per camera or channel, for optimized user experience, network bandwidth, and storage utilization. A unique video stream can be served to many video clients in the network using multicast or unicast transport method via built-in stream reuse functionality.
- Feature available with ACAP

