



دوربین مداربسته

AXIS Q1656-DLE

Radar-Video Fusion Camera

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 مداربسته، 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 مکسارا انتخاب کنیم؟

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

مشخصات

- ✓ رزولیشن تصویر: ۴ مگاپیکسل ۲۵/۳۰ فریم بر ثانیه
- ✓ لنز دوربین: وریفوکال، ۱۰-۳/۹ میلی متر، F1/5
- ✓ دید در شب: فیلتر برش مادون قرمز با قابلیت جداسازی خودکار
- ✓ سرعت شاتر دوربین: ۱/۴ تا ۱/۷۵۰۰ ثانیه
- ✓ دارای استاندارد IP۶۶، IP۶۷، NEMA۴X و IK1۰
- ✓ حافظه: ۲۰۴۸ مگابایت رم و ۸۱۹۴ مگابایت فلش
- ✓ دمای کارکرد: ۴۰- تا ۶۵ درجه سانتی گراد
- ✓ فناوری Axis Zipstream در H۲۶۴ و H۲۶۵
- ✓ میدان دید افقی: ۴۴ - ۹۶ درجه سانتی گراد
- ✓ میدان دید عمودی: ۲۶ - ۶۳ درجه سانتی گراد
- ✓ ابعاد: ۴۰۴ x ۱۵۹ x ۲۳۴ میلی متر
- ✓ وزن: ۵۰۰۰ گرم (۱۱ پوند)



Camera	
Image sensor	1/1.8" progressive scan RGB CMOS
Lens	Varifocal, 3.9–10 mm, F1.5 Horizontal field of view: 96°–44° Vertical field of view: 63°–26° Autofocus, i-CS lens, IR corrected, remote zoom and focus, P-Iris control Minimum focus distance: 0.5 m (1.6 ft)
Day and night	Automatically removable infrared-cut filter
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 0 lux with IR illumination on
Shutter speed	1/47500 s to 1 s

Radar	
Profiles	Area monitoring Road monitoring
Sensor	FMCW (Frequency Modulated Continuous Wave)
Object data	Object type (classes: humans, vehicles, unknown), range, direction, velocity
Frequency	Channel 1: 61.00–61.25 GHz Channel 2: 61.25–61.50 GHz
RF transmit power	<100 mW (EIRP) License free. Unharmful radio-waves.
Recommended mounting height	3.5–12 m (11–39 ft) ^a
Recommended mounting tilt	15–45° ^a
Detection range	Area monitoring profile: 5–60 m (16–200 ft) when detecting a person ^b 5–90 m (16–300 ft) when detecting a vehicle ^b Road monitoring profile: Up to 150 m when detecting a vehicle ^c
Radial speed	Area monitoring profile: Up to 55 km/h (34 mph) Road monitoring profile: up to 200 km/h (125 mph)
Field of detection	Horizontal: 95°
Speed accuracy	+/- 2 km/h (1.25 mph)
Distance accuracy	Area monitoring profile: 0.5 m (1.6 ft) Road monitoring profile: 0.8 m (2.6 ft)
Angle accuracy	1°
Spatial differentiation	3 m ^d
Data refresh rate	10 Hz
Coverage	Area monitoring profile: 2700 m ² (29000 sq ft) for persons 6100 m ² (65600 sq ft) for vehicles
Coexistence zone	Frequency band: 61 GHz Radius: 350 m (1148 ft) Recommend number of radars: up to 8
Radar controls	Multiple detection zones, line crossing detection with one or two lines, exclude zones with filters for short-lived objects, object speed, and object type, configurable trigger duration Radar transmission on/off, grid opacity, zone opacity, color scheme, trail lifetime, detection sensitivity, swaying object filter, small object filter, frequency channel, reference map calibration with options to scale, pan, and zoom map

System on chip (SoC)	
Model	ARTPEC-8
Memory	2048 MB RAM, 8194 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	16:9 2688x1512 Quad HD to 160x90 4:3 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 VBR/ABR/MBR H.264/H.265 Low latency mode Video streaming indicator
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, electronic image stabilization, compression, dynamic text and image overlay, polygon privacy mask Scene profiles: forensic, vivid, traffic overview

Audio	
Audio streaming	Two-way, full duplex Noise reduction
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
Audio input/output	External microphone input or line input, line output, ring power, digital audio input, automatic gain control

Network	
Network protocols	IPv4, IPv6 USGv6, HTTP, HTTPS, HTTP/2, TLS, QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, Bonjour, UPnP®, SNMP v1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, RTSP, RTP, SRTP/RTSPS, TCP, UDP, IGMPv1/v2/v3, RTCP, ICMP, DHCPv4/v6, ARP, SOCKS, SSH, LLDP, MQTT v3.1.1, Secure syslog (RFC 3164/5424, UDP/TCP/TLS)

System integration	
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
Onscreen controls	Electronic image stabilization Day/night shift Defogging Wide dynamic range Video streaming indicator IR illumination Heater
Edge-to-edge	Speaker pairing PTZ camera pairing

Event conditions	Application Audio: audio detection, audio clip playing Device status: above/below/within operating temperature, casing open, IP address blocked, IP address removed, live stream active, network lost, new IP address, ring power overcurrent protection, system ready, radar data failure; interference, no data, tampering 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, manual trigger, virtual input MQTT: stateless Radar motion detection Scheduled and recurring: schedule Video: average bitrate degradation, day-night mode, tampering
Event actions	Overlay text, external output activation, play audio clip, zoom preset I/O: toggle I/O once, toggle I/O while the rule is active Illumination: use lights, use lights while the rule is active MQTT: publish Notification: HTTP, HTTPS, TCP, and email Pre- and post-alarm video or image buffering for recording or upload Radar: radar autotracking, radar detection 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, network share, and email

Data streaming	Video, radar, and fusion metadata with relative position, GPS position ^e , velocity, direction, and object type
Built-in installation aids	Remote zoom and focus, remote back focus, leveling assistant, pixel counter

Analytics

Applications	<p>Included</p> <p>AXIS Object Analytics, AXIS Scene Metadata, AXIS Image Health Analytics</p> <p>AXIS Video Motion Detection</p> <p>AXIS Speed Monitor^f</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>
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AXIS Object Analytics	<p>Object classes (radar-video fusion): humans, vehicles</p> <p>Object classes (video only): humans, vehicles (types: cars, buses, trucks, bikes, other)</p> <p>Scenarios (radar-video fusion): line crossing, object in area</p> <p>Scenarios (video only): crossline counting, occupancy in area, time in area</p> <p>Up to 10 scenarios</p> <p>Key features: detection sensitivity, object speed</p> <p>Other features: triggered objects visualized with color-coded bounding boxes</p> <p>Polygon include/exclude areas</p> <p>Perspective configuration</p> <p>ONVIF Motion Alarm event</p>
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AXIS Image Health Analytics	<p>Detection settings:</p> <p>Tampering: blocked image, redirected image</p> <p>Image degradation: blurred image, underexposed image</p> <p>Other features: sensitivity, validation period</p>
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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>
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Approvals

EMC	<p>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</p> <p>Australia/New Zealand: CISPR 24, CISPR 35, RCM AS/NZS CISPR 32 Class A</p> <p>Canada: ICES-3(B)/NMB-3(B)</p> <p>Japan: VCCI Class A</p> <p>Korea: KS C 9832 Class A, KS C 9815, KS C 9835, KS C 9547</p> <p>USA: FCC Part 15 Subpart B Class B</p> <p>Railway: IEC 62236-4</p>
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Safety	IEC/EN/UL 62368-1, IEC/EN/UL 60950-22, IEC 62471, IS 13252
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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, IEC/EN 62262 IK10, NEMA 250 Type 4X, NEMA TS 2 (2.2.7-2.2.9), ISO 21207 (Method B)
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Wireless	EN 305550, EN 301489-1, EN 301489-3, EN 62311, FCC Part 15 Subpart C
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Network	NIST SP500-267
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Cybersecurity	ETSI EN 303 645, FIPS 140
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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, AES-XTS-Plain64 256bit SD card encryption</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>
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Network security	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
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Documentation	<p>AXIS OS Hardening Guide</p> <p>Axis Vulnerability Management Policy</p> <p>Axis Security Development Model</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>
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General

Casing	<p>IP66-, and NEMA 4X-rated, IK10 impact-resistant aluminum enclosure with integrated dehumidifying membrane weathershield with black anti-glare coating</p> <p>Color: white NCS S 1002-B</p> <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.</p>
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Sustainability	PVC free, BFR/CFR free, 2% recycled plastics, 6% bio-based plastics
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Power	<p>Power over Ethernet (PoE) IEEE 802.3at Type 2 Class 4</p> <p>Typical 10 W, max 25.5 W</p> <p>10-28 VDC, typical 9.5 W, max 25.5 W</p> <p>Power redundancy</p>
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Connectors	<p>RJ45 10BASE-T/100BASE-TX/1000BASE-T PoE</p> <p>Terminal block for two supervised and two unsupervised configurable inputs / digital outputs (12 VDC output, max load 50 mA)</p> <p>RS485/RS422, 2 pcs, 2 pos, full duplex, terminal block</p> <p>DC input, terminal block, 3.5 mm mic/line in, 3.5 mm line out</p>
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IR illumination	<p>Optimized IR with power-efficient, long-life 850 nm IR LEDs</p> <p>Range of reach 38 m (125 ft) or more depending on the scene</p>
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Illumination LED	<p>Power-efficient, long-life white LED</p> <p>Range of reach 18 m (60 ft) or more depending on the scene</p>
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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>
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Operating conditions	<p>-40 °C to 60 °C (-40 °F to 140 °F)</p> <p>Start-up at -30 °C (-22 °F)</p> <p>Maximum temperature according to NEMA TS 2 (2.2.7): 74 °C (165 °F)</p> <p>Humidity 10-100% RH (condensing)</p>
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Storage conditions	<p>-40 °C to 65 °C (-40 °F to 149 °F)</p> <p>Humidity 5-95% RH (non-condensing)</p>
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Dimensions	404 x 159 x 234 mm (16 x 6.3 x 9.2 in)
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Weight	5 kg (11 lb)
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Included accessories	<p>AXIS T94Q01A Wall Mount, sunshield, connector kit, resistor[®] T20 tool, installation guide, Windows[®] decoder 1-user license</p>
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Optional accessories	<p>AXIS T8415 Wireless Installation Tool</p> <p>AXIS Surveillance Cards</p> <p>For more accessories, see axis.com</p>
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Supporting software	<p>AXIS Radar Autotracking for PTZ (Slew to Cue)</p> <p>For supported cameras, see axis.com/products/axis-radar-autotracking</p>
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Video management software	<p>AXIS Camera Station and video management software from Axis Application Development Partners available at axis.com/vms</p>
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Languages	<p>English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Polish, Traditional Chinese, Dutch, Czech, Swedish, Finnish, Turkish, Thai, Vietnamese</p>
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Warranty	5-year warranty, see axis.com/warranty
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- The mounting height and tilt affects the detection range. See user manual at axis.com for more information.
- Measured at 5 m mounting height, with 25° tilt. See user manual at axis.com for more information.
- Measured at 7 m mounting height, with 15° tilt. The mounting height, tilt and placement of the radar-video fusion camera affects the detection range. See the user manual at axis.com for more information.
- Minimum distance between moving objects.
- Enter the camera's GPS position manually to get the objects' GPS position in the data stream.
- Available for download

