AXIS Q6355-LE PTZ Camera

2 MP, AI-powered PTZ for extreme low light

AXIS Q6355-LE features an outstanding light-sensitive ½" inch sensor, 31x optical zoom, laser focus and quick zoom. Built on ARTPEC-9, it offers accelerated performance to run impressive analytics applications on the edge. For instance, *AXIS Object Analytics* can detect and classify humans, vehicles, and types of vehicles. This IP66-, IK10-, and NEMA 4x-rated device is impact- and weather-resistant. Plus, it's NEMA TS2 rated so it can be used in temperatures up to 74°C. Axis Zipstream with support for AV1, H.264, and H.265 significantly lowers bandwidth and storage requirements. Furthermore, Axis Edge Vault safeguards your device and protects sensitive information from unauthorized access.

> **1/2" sensor with 31x optical zoom**
> **Forensic WDR, Lightfinder, and OptimizedIR**
> **Next-generation AI-powered analytics**
> **Axis Zipstream with AV1, H.264, H.265**
> **Built-in cybersecurity with Axis Edge Vault**

AXIS Q6355-LE PTZ Camera

Camera

Variants
AXIS Q6355-LE
AXIS Q6355-LE NM (midspan not included)

Image sensor
1/2" progressive scan CMOS

Lens
Optical zoom: 31x
Zoom speed: <1 sec between any zoom value
Focal length: 6.91 – 214.64 mm
Horizontal field of view: 60.6°– 2.0°
Vertical field of view: 36.5°– 1.1°
Laser focus, autofocus, P-iris

Day and night
Automatically removable infrared-cut filter

Minimum illumination
Color: 0.06 lux at 30 IRE, F1.36
B/W: 0.001 lux at 30 IRE, F1.36, 0 lux with IR illumination on
Color: 0.09 lux at 50 IRE, F1.36
B/W: 0.003 lux at 50 IRE, F1.36, 0 lux with IR illumination on

Shutter speed
1/111000 s to 1/2 s

Pan/Tilt/Zoom
Pan: 360° endless, 0.05°– 550°/s
Tilt: +20 to -90°, 0.05°– 500°/s
Zoom: 31x optical, 12x digital, Total 372x zoom
Quick-zoom, nadir flip, 300 preset positions, tour recording (max 10, max duration 16 minutes each), guard tour (max 100), control queue, on-screen directional indicator, set new pan 0°, adjustable zoom speed, speed dry

System on chip (SoC)

Model
ARTPEC-9

Memory
4096 MB RAM, 8192 MB Flash

Compute capabilities
Deep learning processing unit (DLPU)

Video

Video compression
AV1
H.264 (MPEG-4 Part 10/AVC) Baseline, Main and High Profiles
H.265 (MPEG-H Part 2/HEVC) Main Profile
Motion JPEG

Resolution
1920x1080 (HDTV 1080p) to 320x180

Frame rate
Up to 50/60 fps (50/60 Hz) in all resolutions

Video streaming
Multiple, individually configurable streams in AV1, H.264, H.265 and Motion JPEG
Axis Zipstream technology in AV1, H.264 and H.265
Controllable frame rate and bandwidth
VBR/ABR/MBR AV1/H.264/H.265
Low latency mode
Video streaming indicator

Signal-to-noise ratio
>55 dB

Image settings
Compression, color, brightness, sharpness, white balance, exposure control, exposure zones, image freeze on PTZ, scene profiles, rotation, electronic image stabilization (EIS), defogging
Contrast, local contrast, autofocus, Forensic WDR: Up to 120 dB depending on scene, 100 individual polygon privacy masks including mosaic and chameleon privacy masks

Audio

Input
Input through portcast technology

Output
Output through portcast technology

Network

Network protocols
IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPS[1], HTTP/2, TLS[1], QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP®, SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, PTP, NTS, RTSP, RTCP, RTP, SRTP/RTSPS, TCP, UDP, IGMPv1/v2/v3, DHCPv4/v6, ARP, SSH, NTCIP, 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® 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
IR illumination
Quick-zoom
Speed dry

Event conditions
Device status: above operating temperature, above or below operating temperature, below operating temperature, fan failure, IP address removed, IP address blocked, live stream active, network lost, new IP address, PTZ power failure, system ready, within operating temperature
Edge storage: recording ongoing, storage disruption, storage health issues detected
I/O: manual trigger, virtual input[2]
MQTT: MQTT client connected
PTZ: PTZ malfunctioning, PTZ movement, PTZ preset position reached, PTZ ready
Scheduled and recurring: schedule
Video: average bitrate degradation, day-night mode

Event actions
Day-night mode: Use day-night mode while the rule is active
Defog: set defog mode, set defog mode while the rule is active
Illumination: use lights, use lights while the rule is active
Images: FTP, SFTP, HTTP, HTTPS, network share and email
MQTT: MQTT publish
Notification: email, HTTP, HTTPS, TCP
Overlay text: use overlay text, use overlay text while the rule is active
Recordings: record video, record video while the rule is active
Security: erase configuration
SNMP: trap messages, trap messages while the rule is active
Video clips: FTP, HTTP, HTTPS, SFTP, email, network share

Analytics

Applications
Included
AXIS Object Analytics, AXIS Image Health Analytics, AXIS Scene Metadata, AXIS Video Motion Detection, AXIS OSDI Zone, Orientation Aid PTZ, advanced gatekeeper, autotracking 2
Supported
Support for AXIS Camera Application Platform enabling installation of third-party applications, see *axis.com/acap*

AXIS Object Analytics
Object classes: humans, vehicles (types: cars, buses, trucks, bikes, other)
Scenarios: line crossing, object in area, time in area, crossline counting, tailgating detection, PPE monitoring[BETA], motion in area, motion line crossing
Up to 10 scenarios
Other features: triggered objects visualized with trajectories, color-coded bounding boxes and tables
Polygon include/exclude areas
Perspective configuration
ONVIF Motion Alarm event

AXIS Image Health Analytics
Detection settings:
Tampering: blocked image, redirected image
Image degradation: blurred image, underexposed image
Other features: sensitivity, validation period

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

Approvals

EMC
EN 55032 Class A, EN 55035, EN 61000-3-2, EN 61000-3-3, EN 61000-6-1, EN 61000-6-2, CISPR 35, EAC, EN 50121-4
Australia/New Zealand: RCM AS/NZS CISPR 32 Class A
Canada: ICES-3(A)/NMB-3(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
IEC/EN/UL 62368-1, CAN/CSA C22.2 No. 62368-1, IEC/EN 62471 risk group 2, IEC 60825-1 Class 1

Environment
IEC/EN 62262 IK10, IEC/EN 60529 IP66, IEC/EN 60529 IP67, NEMA 250, Type 4X, NEMA TS 2 (2.2.7–2.2.9), IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-14, IEC 60068-2-27, IEC 60068-2-78, ISO 21207 (Method B), ISO 12944-6 C5

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 Client Credential Flow/OpenID Authorization Code Flow for centralized ADFS account management, password protection, AES-XTS-Plain64 256bit SD card encryption
Hardware: Axis Edge Vault cybersecurity platform
Secure keystore: secure element (CC EAL6+, FIPS 140-3 Level 3), system-on-chip security (TEE)
Axis device ID, signed video, secure boot, encrypted filesystem (AES-XTS-Plain64 256bit)

Network security
IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2)[3], IEEE 802.1AE (MACsec PSK/EAP-TLS), HTTPS/HSTS[3], TLS v1.2/v1.3[3], 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/cybersecurity/resources*
To read more about Axis cybersecurity support, go to *axis.com/cybersecurity*

General

Casing
IP66-, IP67-, NEMA 4X- and IK10-rated
Color: white NCS S 1002-B
Repaintable metal casing (aluminum), hard coated Polycarbonate (PC) clear dome with Sharpdome technology

Power
IEEE802.3bt Type 3 Class 6
Possibility to optimize power consumption of camera:
Full power: typical 13.7 W (no IR), max 51 W
Low power: typical 13.7 W (no IR), max 30 W. With IR: 40 W
Features: power profiles, power meter

Connectors
RJ45 10BASE-T/100BASE-TX/1000BASE-T
RJ45 Push-pull Connector (IP66)

IR illumination
OptimizedIR with power-efficient, long-life 850 nm IR LEDs
Range of reach 300 m (984 ft) or more depending on the scene

Storage
Support for SD/SDHC/SDXC card
Support for SD card encryption (AES-XTS-Plain64 256bit)
Support for recording to network-attached storage (NAS)
For SD card and NAS recommendations see *axis.com*

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3. *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).*

Operating conditions

Full power: -50 °C to 55 °C (-58 °F to 131 °F)
Low power: -10 °C to 55 °C (14 °F to 131 °F)
Maximum temperature according to NEMA TS 2 (2.2.7): 74 °C (165 °F)
Arctic Temperature Control: Start-up as low as -40 °C (-40 °F)
Humidity 10–100% RH (condensing)
Wind load (sustained): 60 m/s (135 mph)[4]

Storage conditions

-40 °C to 65 °C (-40 °F to 149 °F)
Humidity 5-95% RH (non-condensing)

Dimensions

Height: 261 mm (10.3 in)
With weather shield: ø 239 mm (9.4 in)
Without weather shield: ø 192 mm (7.6 in)
Effective Projected Area (EPA): 0.045 m^2

Weight

4 400 g (9.7 lb)

Included accessories

Installation guide, Windows® decoder 1-user license, 90 W Midspan (including power cable)[5], IP66-rated network connector, repaint template, paint paper

Optional accessories

AXIS TQ6808-E Hard-Coated Clear Dome
AXIS TQ6815-E Dome Hard-Coated Smoked
AXIS TU8003 90 W Connectivity Midspan
AXIS T91/T94 Mounting Accessories
AXIS Surveillance Cards
For more accessories, see *axis.com*

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, Dutch, Czech, Swedish, Finnish, Turkish, Thai, Vietnamese

Warranty

5-year warranty, see *axis.com/warranty*

Sustainability

Substance control

PVC free, BFR/CFR free in accordance with JEDEC/ECA Standard JS709
RoHS in accordance with EU RoHS Directive 2011/65/EU and 2015/863, and standard EN IEC 63000:2018
REACH in accordance with (EC) No 1907/2006. For SCIP UUID, see *echa.europa.eu*

Materials

Renewable carbon-based plastic content: 23% (recycled: 18%, bio-based: 5%, carbon capture based: 0%)
Screened for conflict minerals in accordance with OECD guidelines
To read more about sustainability at Axis, go to *axis.com/about-axis/sustainability*

Environmental responsibility

axis.com/environmental-responsibility
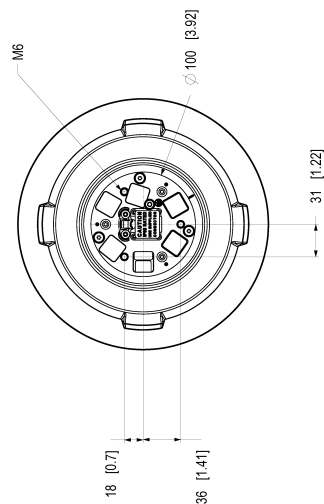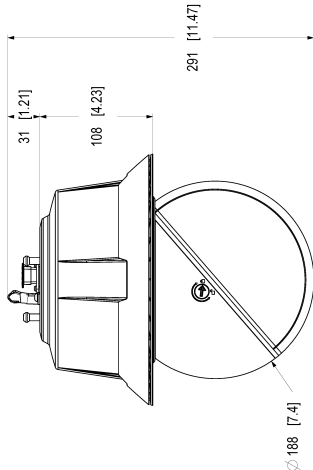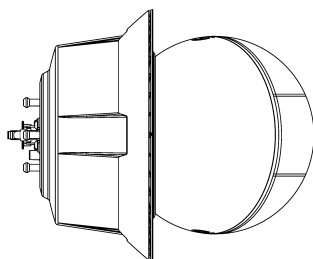Axis Communications is a signatory of the UN Global Compact, read more at *unglobalcompact.org*
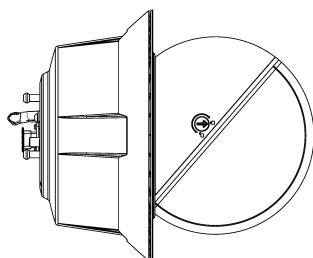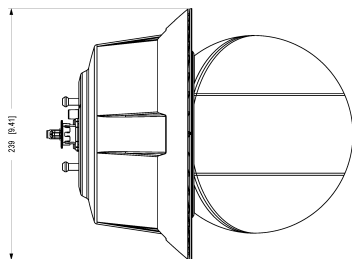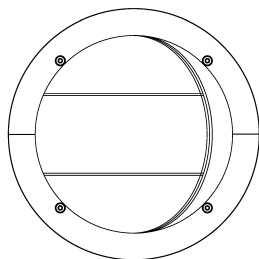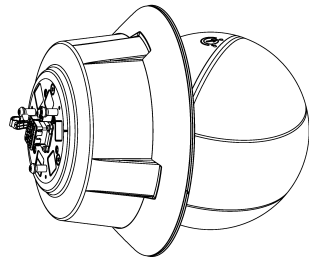
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4. *The values shown are based on results from actual wind tunnel testing. For drag force calculations, use Effective Projected Area (EPA).*
5. *Not included for AXIS Q6355-E NM.*

Detect, Observe, Recognize, Identify (DORI)

	DORI definition	Distance (wide)	Distance (tele)
Detect	25 px/m (8 px/ft)	65.8 m (216 ft)	1749.3 m (5737.7 ft)
Observe	63 px/m (19 px/ft)	26.1 m (85.6 ft)	693.7 m (2275 ft)
Recognize	125 px/m (38 px/ft)	13.2 m (43.3 ft)	349.2 m (1145 ft)
Identify	250 px/m (76 px/ft)	6.6 m (21.6 ft)	174.2 m (571.4 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.

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291 [11.47]

31 [1.21]

108 [4.23]

∅ 188 [7.4]

239 [9.41]

M6

∅ 100 [3.92]

31 [1.22]

18 [0.7]

36 [1.41]

AXIS Q6355-LE PTZ Camera

291 [11.47]

31 [1.21]

89 [3.52]

∅ 188 [7.4]

192 [7.54]

M6

∅ 100 [3.92]

31 [1.22]

18 [0.7]

36 [1.41]

Without Weather Cover