

AD6735-QI

Enterprise Series PTZ Network Camera

High-speed PTZ with long-range optimizedIR

offers HDTV 1080p with 32x optical zoom. It features OptimizedIR up to 250 m(820ft) or more depending on the scene and Lightfinder 2.0 for clear, sharp images even in challenging light. Sharpdome technology allows you to see 20° above the horizon with the same sharp image quality as below. It includes orientation aid and autotracking 2 with click and track functionality. Privacy masking with mosaic lets you pixelate whole areas of the scene. It includes enhanced security features such as signed firmware, secure boot and TPM module. Plus, support for H.264 and H.265.

- > **HDTV 1080p with 32x optical zoom**
- > **OptimizedIR (250 m/820 ft range)**
- > **Lightfinder 2.0**
- > **Autotracking 2 and orientation aid**
- > **TPM, FIPS 140-2 level 2 certified**



AD6735-QI PTZ Network Camera

Camera

Image sensor

1/2.8" Progressive scan CMOS

Lens

Varifocal, 4.3–137.6 mm, F1.4 – 4.0

Horizontal field of view: 58.3°–2.4°

Vertical field of view: 34.9°–1.3°

Autofocus, auto-iris

Day and night

Automatically removable infrared-cut filter

Minimum illumination

Color: 0.06 lux at 30 IRE F1.4

B/W: 0.008 lux at 30 IRE F1.4, 0 lux with IR illumination on

Color: 0.09 lux at 50 IRE F1.4

B/W: 0.01 lux at 50 IRE F1.4, 0 lux with IR illumination on

Shutter speed

1/66500 s to 2s

Pan/Tilt/Zoom

Pan: 360° endless, 0.05°–700°/s

Tilt: +20 to -90°, 0.05°–500°/s

Zoom: 32x optical, 12x digital, total 384x zoom

Nadir flip, 256 preset positions, tour recording (max 10, max duration 16 minutes each), guard tour (max 100), control queue, on-screen directional indicator, orientation aid PTZ, set new pan 0°, adjustable zoom speed, speed dry

System on chip (SoC)

Model

ARTPEC-7

Memory

1024 MB RAM, 512 MB Flash

Compute capabilities

Machine learning processing unit (MLPU)

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

1920x1080p (HDTV 1080p) to 320x180

Frame rate

Up to 50/60 fps (50/60 Hz) in 1080p

Video streaming

Multiple, individually configurable streams in H.264, H.265 and Motion JPEG

Zipstream technology in H.264 and H.265

Controllable frame rate and bandwidth

VBR/ABR/MBR H.264/H.265

Low latency mode

Image settings

Compression, saturation, brightness, sharpness, contrast, local contrast, white balance, exposure control, exposure zones, Forensic WDR: Up to 120 dB depending on scene, defogging, day/night shift level, tone mapping, fine tuning of low-light behavior, rotation: 0°, 180°, text and image overlay, image freeze on PTZ, electronic image stabilization (EIS), scene profiles, 32 individual polygon privacy masks

Signal-to-noise ratio

>55 dB

Audio

Audio input/output

Audio features through portcast technology: two-way audio connectivity, voice enhancer

Network

Network protocols

IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPS¹, HTTP/2, TLS¹, QoS Layer 3 DiffServ, FTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP™, SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, PTP, NTS, RTSP, RTP, SRTP/RTSPS, SFTP, TCP, UDP, IGMPv1/v2/v3, RTCP, ICMP, 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 Camera Application Platform; specifications One-Click Cloud Connection ONVIF® Profile G, ONVIF® Profile M, ONVIF® Profile S, and ONVIF® Profile T, specification at onvif.org

Video management systems

Compatible with video management software

Event conditions

Analytics

Device status: above operating temperature, above or below operating temperature, below operating temperature, fan failure, IP address removed, network lost, new IP address, shock detected, storage failure, system ready, within operating temperature

Edge storage: recording ongoing, storage disruption

I/O: manual trigger, virtual input

MQTT subscribe

PTZ: PTZ malfunctioning, PTZ movement, PTZ preset position reached, PTZ ready, PTZ autotracking

Scheduled and recurring: scheduled event

Video: live stream open, day/night mode

Event actions

Record video: SD card and network share

Pre- and post-alarm video or image buffering for recording or upload

Upload of images or video clips: FTP, SFTP, HTTP, HTTPS, network share, and email

Notification: email, HTTP, HTTPS, TCP, and SNMP trap

PTZ: PTZ preset, guard tour

Overlay text, day/night mode

WDR mode

IR illumination

MQTT publish

Built-in installation aids

Pixel counter, leveling guide

Analytics

Applications

Included

Object Analytics, Scene Metadata, Video Motion

Detection, Motion Guard, Fence Guard,

Loitering Guard, Autotracking 2, Active

Gatekeeper

Object Analytics

Object classes: humans, vehicles

Scenarios: line crossing, object in area, crossline counting, time in area

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

Scene Metadata

Object classes: humans, faces, vehicles (types: cars, buses, trucks, bikes), license plates

Object attributes: confidence, position

Approvals

EMC

EN 55032 Class A, EN 55035, EN 55024, EN 50121-4, IEC 62236-4, EN 61000-3-2, EN 61000-3-3, EN 61000-6-1, EN 61000-6-2

Australia/New Zealand: RCM AS/NZS CISPR 32 Class A

Canada: ICES-3(A)/NMB-3(A)

Japan: VCCI Class A

Korea: KC KN32 Class A, KN35

USA: FCC Part 15 Subpart B Class A

Safety

IEC/EN/UL 62368-1, IEC/EN/UL 60950-22, IEC/EN 62471 risk group 2, IS13252

Environment

IEC/EN 62262 IK08, IEC/EN 60529 IP66, 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 60068-2-30, IEC 60068-2-78, ISO4892-2

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, Cryptographic Module (FIPS 140-2 level 1), AES-XTS-Plain64 256bit SD card encryption
Hardware: Edge Vault cybersecurity platform
TPM 2.0 (CC EAL4+, FIPS 140-2 Level 2), secure keystore, secure boot

Network security

IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2)², IEEE 802.1AE (MACsec PSK/EAP-TLS), HTTPS/HSTS², TLS v1.2/v1.3², Network Time Security (NTS), X.509 Certificate PKI, host-based firewall

Documentation

OS Hardening Guide

Vulnerability Management Policy

Security Development Model

OS Software Bill of Material (SBOM)

To download documents

General

Casing

IK08, IK10 housing and mounting³, IP66- and NEMA 4X-rated

Repaintable metal casing (aluminum), hard coated Polycarbonate (PC) clear dome with Sharpdome technology

Sustainability

PVC free

Power

High PoE midspan 1-port: 100–240 V AC, max 74 W

Camera consumption: typical 10.3 W (no IR), max 51 W

PoE+ midspan 1-port: 100–240 V AC, max 37 W IEEE 802.3at Type 2 Class 4

Camera consumption: typical 10.3 W (no IR), max 25 W
Features: power meter

Connectors

RJ45 10BASE-T/100BASE-TX PoE

RJ45 Push-pull Connector (IP66)

Audio: Audio and I/O connectivity via portcast technology

IR illumination

Optimized IR with power-efficient, long life 850 nm IR LEDs

With 30 W midspan: Range of reach 190 m (623 ft) or more depending on the scene

With 60 W midspan: Range of reach 250 m (820 ft) or more depending on the scene

Storage

Support for microSD/microSDHC/microSDXC card

Support for SD card encryption

Support for recording to network-attached storage (NAS)

For SD card and NAS

Operating conditions

With 30 W midspan: -30 °C to 50 °C (-22 °F to 122 °F)

With 60 W midspan: -50 °C to 50 °C (-58 °F to 122 °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)

Storage conditions

-40 °C to 70 °C (-40 °F to 158 °F)

Humidity 5–95% RH (non-condensing)

Dimensions

Height: 241 mm (9.5 in)

Ø 165 mm (6.4 in)

Weight

3 kg (6.6 lb)

Included accessories

IP66-rated RJ45 connector kit, High PoE 60 W SFP

Midspan, installation guide, Windows decoder 1-user
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