AXIS P5655–E PTZ Network Camera

HDTV 1080p PTZ with 32x zoom and focus recall

AXIS P5655-E PTZ Network Camera is a cost-effective, high performance PTZ with HDTV 1080p and 32x optical zoom. It features Forensic WDR for clarity even when there's both dark and light areas in the scene. And, Lightfinder 2.0 to capture low-light images with more saturated colors and sharper images of moving objects. It offers electronic image stabilization and enhanced security features including signed firmware and secure boot. With IP66, NEMA 4X and IK10 ratings it's resistant to both harsh weather conditions and impacts. Plus, you get two-way audio, I/O ports and extended capabilities for advanced analytics.

> **HDTV 1080p with 32x optical zoom**
> **Forensic WDR and Lightfinder 2.0**
> **Signed firmware and secure boot**
> **Focus recall and EIS**
> **Zipstream with support for H.264 and H.265**

AXIS P5655–E PTZ Network Camera

Camera

Image sensor
1/2.8" progressive scan RGB CMOS

Lens
Varifocal, 4.3-137.6 mm, F1.4 - 4.0
Horizontal field of view: 58.3°- 2.4°
Vertical field of view: 35.5°- 1.4°
Including EIS, barrel and pincushion distortion correction
Autofocus and auto-iris

Day and night
Automatically removable infrared-cut filter

Minimum illumination
Color: 0.1 lux at 30 IRE F1.4
B/W: 0.01 lux at 30 IRE F1.4

Shutter speed
1/66500 s to 2 s

Pan/Tilt/Zoom
Pan: 360° endless, 0.1°- 350°/s
Tilt: 180°, 0.1°- 350°/s
Zoom: 32x optical, 12x digital, Total 384x zoom
256 preset positions, nadir flip, limited guard tour, control queue, on-screen directional indicator, set new pan 0°, focus window, focus recall

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
1920x1080 HDTV 1080p to 320x180

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

Video streaming
Multiple, individually configurable streams in H.264, H.265 and Motion JPEG
Controllable frame rate and bandwidth
Axis Zipstream technology in H.264 and H.265
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, scene profiles, 20 individual polygon privacy masks

Signal-to-noise ratio
>55 dB

Audio

Audio streaming
Two-way, full duplex

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

Audio input/output
External microphone input or line input, line output (Requires Axis 10-pin Push-pull System Connector or Axis Multicable C I/O Audio Power 1 m/5 m, not included), automatic gain control

Network

Network protocols
IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTP/2, HTTPS[1], TLS[1], QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP®, SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, NTS, RTSP, RTP, SRTP/RTSPS, 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 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*

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*.

Event conditions
Audio: Audio detection
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: Digital input, Manual trigger, Virtual input
MQTT subscribe
PTZ: PTZ malfunctioning, PTZ movement: Camera 1, PTZ preset position reached: Camera 1, PTZ ready
Scheduled and recurring: Scheduled event
Video: Day-night mode, Live stream open

Event actions
Play audio clips, day-night mode, go to preset position, guard tour, I/O, upload of images or video clips via FTP, SFTP, HTTP, HTTPS, network share and email, notification to email, HTTP, HTTPS, TCP and SNMP trap, overlay text, prioritized text, record video to SD card and network share, WDR mode
MQTT publish

Built-in installation aids
Pixel counter

Analytics

Applications
Included
AXIS Object Analytics, AXIS Scene Metadata
AXIS Video Motion Detection, AXIS Motion Guard, AXIS Fence Guard, AXIS Loitering Guard, audio detection, advanced gatekeeper, autotracker 2
Support for AXIS Camera Application Platform enabling installation of third-party applications, see *axis.com/acap*

AXIS 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

AXIS Scene Metadata
Object classes: Classes: humans, faces, vehicles (types: cars, buses, trucks, bikes), license plates
Confidence, position

Approvals

EMC
EN 55032 Class A, IEC 62236-4, EN 61000-3-2, EN 61000-3-3, EN 55024, EN 61000-6-1
Australia/New Zealand: RCM AS/NZS CISPR 32 Class A
Canada: ICES-003 Class A
Japan: VCCI Class A
Korea: KC KN32 Class A, KC KN35
USA: FCC Part 15 Subpart B Class A

Safety
IEC/EN/UL 62368-1, IEC/EN/UL 60950-22, IS 13252

Environment
IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-14, IEC 60068-2-27, IEC 60068-2-30, EC 60068-2-78, IEC/EN 60529, IP66, IEC/EN 62262, IK10, NEMA 250 Type 4X

Network
NIST SP500-267, IPv6 USGv6

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1. *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).*

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: Secure boot

Network security
IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2)[2], IEEE 802.1AE (MACsec PSK/EAP-TLS), HTTPS/HSTS[2], TLS v1.2/v1.3[2], 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-, NEMA 4X- and IK10-rated
Aluminum casing, polycarbonate (PC) dome
Color: white NCS S 1002-B, repaintable skin cover
For repainting instructions of casing and impact on warranty, contact your Axis partner.

Sustainability
PVC free

Power
Axis PoE+ midspan 1–port: 100–240 V AC, max 37 W
IEEE 802.3at, Type 2 Class 4
Camera consumption: typical 10.5 W, max 19 W
Multiconnector:
20–28 V DC, typical 10 W, max 18 W
20–24 V AC, typical 15.5 V A, max 26 V A
(PoE+ midspan or power supply not included)

Connectors
RJ45 10BASE-T/100BASE-TX PoE
RJ45 push-pull connector (IP66) included
I/O connector for DC or AC input, 4 configurable alarm
Inputs/outputs: mic in/line in, line out (Axis 10-pin push-pull system connector or Axis multicable C I/O audio power 1 m/5 m, (not included))

Storage
Support for SD/SDHC/SDXC 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
-30 °C to 50 °C (-22 °F to 122 °F)
Maximum intermittent temperature 55 °C
Humidity 10–100% RH (condensing)

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

Dimensions
Height: 217 mm (8.54 in)
ø 188 mm (7.4 in)

Weight
2.5 kg (5.5 lb)

Included accessories
RJ45 Push-pull Connector (IP66), hard ceiling mount, spring pipe adaptor, U-profile pipe adaptor, installation guide, Windows® decoder 1-user license

Optional accessories
AXIS T91B mounts, AXIS T94A02L recessed mount, outdoor RJ45 cable with premounted connector, AXIS T8133 Midspan 30 W 1-port, repaintable skin covers, smoked dome, Axis 10-pin push-pull system connector, Axis multicable C I/O audio power 1 m/5 m
For more accessories, see *axis.com*

Languages
English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Traditional Chinese, Dutch, Czech, Swedish, Finnish, Turkish, Thai, Vietnamese

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

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