

# **AXIS M5000-G PTZ Camera**

# Situational awareness camera with build-in PTZ and Z-Wave®

AXIS M5000-G PTZ Camera features three 5 MP sensors and one PTZ camera with 10x optical zoom for total situational awareness of indoor areas up to 400 m² (4300 ft²). With everything displayed on one monitor, you can move from overview to detailed views in a single click. It offers wireless I/O connectivity with Z-Wave Plus® devices to communicate with up to six devices in a system setup for instance monitor temperatures in freezers or turn lights on/ off. With AXIS M5000-G, you get the benefits of four cameras while installing just one camera.

- > 3x 5 MP sensors for situational awareness
- > Total overview, zoomed-in details
- > Covers indoor areas up to 400 m<sup>2</sup> (4300 ft<sup>2</sup>)
- > 10x optical zoom with HDTV 1080p
- > Z-Wave for smart home devices









# **AXIS M5000-G PTZ Camera**

#### Variants

AXIS M5000-G EU AXIS M5000-G JP AXIS M5000-G US

# Camera

# Image sensor

PTZ camera:

1/2.8" progressive scan RGB CMOS

Overview cameras:

1/2.8" progressive scan RGB CMOS

#### Lens

#### PTZ camera:

Varifocal, 4.7-47 mm, F1.6-3.0 Horizontal field of view: 61.8°-6.7° Vertical field of view: 36.3°-3.8° Autofocus, auto-iris, P-Iris control

Overview cameras:

Focal length 2.39 mm, F2.0 Horizontal field of view: 360° Vertical field of view: 93°

## Day and night

PTZ camera:

Automatically removable infrared-cut filter

#### Minimum illumination

PTZ camera:

Color: 0.09 lux at 30 IRE F1.6 B/W: 0.01 lux at 30 IRE F1.6 Color: 0.1 lux at 50 IRE F1.6 B/W: 0.01 lux at 50 IRE F1.6

Overview cameras:

Color: 0.08 lux at 30 IRE F2.0 B/W: 0.03 lux at 30 IRE F2.0 Color: 0.4 lux at 50 IRE F2.0 B/W: 0.03 lux at 50 IRE F2.0

# Shutter speed

PTZ camera:

1/66500 s to 2 s Overview cameras:

1/50000 s to 2 s

# Pan/Tilt/Zoom

PTZ camera:

Pan: 360° with autoflip, 1.8°-150°/s

Tilt: 180°,1.8°-150°/s

10x optical zoom, 12x digital zoom, total 120x zoom 100 preset positions, limited guard tour, control queue, on-screen directional indicator, E-flip, click-in-image

# System on chip (SoC)

### Model

ARTPEC-7

## Memory

2048 MB RAM, 512 MB Flash

## 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 JPFG

## Resolution

PTZ camera:

1920x1080 to 320x180 Overview cameras: 2592x1944 to 320x180

#### Frame rate

PTZ camera:

Up to 25/30 fps with power line frequency 50/60 Hz Overview cameras:

Up to 12 fps with power line frequency 50/60 Hz

## 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, sharpness, WDR forensic capture, white balance, day/night threshold, tone mapping, exposure mode, exposure zones, compression, Z-Wave overlay, text and image overlay, polygon privacy masks, image freeze on PTZ, local contrast, max shutter, max gain, noise/motion priority, aperture lock, exposure level

Scene profiles: indoor, forensic

## Signal-to-noise ratio

>55 dB

# **Audio**

# Audio streaming

Two-way, full duplex

## Audio encoding

24bit LPCM, AAC-LC 8/16/32/44.1 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, automatic gain control

# **Network**

# Security

IP address filtering, HTTPS<sup>1</sup> encryption, IEEE 802.1x (EAP-TLS)<sup>1</sup> network access control, user access log, centralized certificate management

# **Network protocols**

IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPS<sup>1</sup>, HTTP/2, TLS<sup>1</sup>, QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP®, SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, NTS, RTSP, RTCP, RTP, SRTP/RTSPS, TCP, UDP, IGMPv1/v2/v3, DHCPv4/v6, ARP, SSH, LLDP, CDP, MQTT v3.1.1, Secure syslog (RFC 3164/5424, UDP/TCP/TLS), Link-Local address (ZeroConf), Z-Wave Plus® v2

# 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.

#### Onscreen controls

Focus recall area Video streaming indicator Privacy masks Day/night shift

#### **Event conditions**

Audio: audio clip playing

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

Edge storage: recording ongoing, storage disruption, storage health issues detected

I/O: manual trigger, virtual input

MQTT subscribe

PTZ: PTZ malfunctioning, PTZ movement, PTZ preset

position reached, PTZ ready

Scheduled and recurring: scheduled event

Video: average bitrate degradation, day-night mode, live stream open

#### **Event actions**

Audio clips: play, play while the rule is active, stop

Guard tours: Run while the rule is active, start MQTT publish

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

Record video: SD card and network share

Upload of images or video clips: FTP, SFTP, HTTP, HTTPS,

network share and email

Day-night mode, overlay text, preset positions, WDR mode

# Data streaming

Event data

#### Built-in installation aids

Pixel counter

# Analytics

## **Applications**

Included

AXIS Loitering Guard, AXIS Video Motion Detection, audio detection, shock detection, advanced gatekeeper Support for AXIS Camera Application Platform enabling installation of third-party applications, see axis.com/acap

# **Approvals**

#### **EMC**

EN 55032 Class A, EN 55035, EN 61000-6-1,

EN 61000-6-2 Japan: VCCI Class A

USA: FCC Part 15 Subpart B Class A Canada: ICES-3(A)/NMB-3(A)

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).

## Safety

CAN/CSA C22.2 No. 62368-1, IEC/EN/UL 62368-1

#### **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 IP51

#### Wireless

EN 62311, EN 300220-2, EN 301489-1, EN 301489-3, MIC, FCC Part 15 Subpart C, RSS-210

#### 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 OpenID Authorization Code Flow for centralized ADFS account management, password protection, Axis Cryptographic Module (FIPS 140-2 level 1), AES-XTS-Plain64 256bit SD card encryption

Hardware: Axis Edge Vault cybersecurity platform Secure element (CC EAL 6+), Axis device ID, secure keystore, signed video, secure boot

# **Network security**

IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2)<sup>2</sup>, IEEE 802.1AE (MACsec PSK/EAP-TLS), IEEE 802.1AR, HTTPS/HSTS<sup>2</sup>, TLS v1.2/v1.3<sup>2</sup>, 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

IP51-rated

Repaintable plastic casing, polycarbonate (PC) dome

### Sustainability

PVC free, BFR/CFR free

#### **Power**

Power over Ethernet (PoE) IEEE 802.3at Type 2 Class 4 Typical 7.6 W, max 13.4 W 20–28 V DC, typical 6.6 W, max 12.1 W (PoE midspan and power supply not included)

#### **Connectors**

RJ45 10BASE-T/100BASE-TX/1000BASE-T PoE DC input terminal block Audio: mic/line in, line out terminal block

## 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

# **Operating conditions**

0 °C to 40 °C (32 °F to 104 °F) Humidity 10–85% RH (non-condensing)

## Storage conditions

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

### **Dimensions**

Height: 138 mm (5.4 in), ø 247 mm (9.7 in)

## Weight

1.95 kg (4.3 lb)

## Included accessories

Installation Guide, Windows® decoder 1-user license, drill hole template, terminal block connectors, connector guard, bayonette screws

# **Optional accessories**

AXIS TM5601 Conduit Back Box AXIS TM5801 Black Dome For more accessories, see *axis.com* 

#### Languages

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

<sup>2.</sup> 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).

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# Warranty

5-year warranty, see axis.com/warranty

