AXIS V5938 PTZ Network Camera

Broadcast-quality 4K PTZ camera

AXIS V5938 combines excellent image quality with smooth PTZ control and broadcast-quality audio for professional webcasting. It's compatible with VISCA joysticks and VISCA over IP, making it easy to integrate with your existing AV installations. Offering enhanced security features such as signed firmware and secure boot, it ensures the integrity and authenticity of the firmware. Furthermore, Axis Zipstream with H.264 and H.265 significantly reduces bandwidth and storage requirements without compromising image quality. NDI® compliant (license to be bought separately).

- > UHD 4K at 30 fps and 20x zoom
- > Broadcast-quality audio with XLR inputs
- > VISCA and VISCA over IP support
- > Camstreamer 3-month trial included
- > 3G-SDI and HDMI outputs

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Camera

Image sensor	Progressive scan RGB CMOS 1/2.5"
Lens	4.4–88 mm, F2.0-3.8 Horizontal field of view: 70.2°–4.1° Vertical field of view: 39.5°–2.3° Autofocus, P-iris control
Day and night	Automatically removable infrared-cut filter
Minimum illumination	**Color:** 0.7 lux at 30 IRE F2.0 1 lux at 50 IRE F2.0 **B/W:** 0.06 lux at 30 IRE F2.0 0.1 lux at 50 IRE F2.0
Shutter speed	1/10000 s to 1 s
Pan/Tilt/Zoom	**Pan:** ±170°, 0.2-100°/s **Tilt:** -20° - 90°, 0.2-90°/s **Zoom:** 20x Optical, 12x Digital, Total 240x 256 presets positions, Control queue, On-screen directional indicator, Adjustable zoom speed, PTZ response profiles

System on chip (SoC)

Model	ARTPEC-7
Memory	2 GB 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 JPEG
Resolution	3840x2160 HDTV 2160p to 160x90 **HDMI Output:** 2160p@25/30 fps (50/60 Hz) 1080p@25/30/50/60 fps (50/60 Hz) 1080i@50/60 fps (50/60 Hz) 720p@50/60 fps (50/60 Hz) 480p@60 fps (60 Hz) **SDI Output:** 1080p@25/30/50/60 fps (50/60 Hz) 1080p@50/60 fps (50/60 Hz) dual stream 1080i@50/60 fps (50/60 Hz) 720p@50/60 fps (50/60 Hz)
Frame rate	Up to 30/25 fps (60/50 Hz) in 4K Up to 60/50 fps (60/50 Hz) in all other 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 HDMI **HD-SDI:** SMPTE 292 **3G-SDI:** SMPTE 424 ,SMPTE 425 (3G-SDI mapping supports Level A / Level B dual link mapping)
Image settings	Saturation, brightness, sharpness, noise reduction, rotation: 0°, 180°, WDR – dynamic contrast, white balance, day/night threshold, exposure zones, backlight compensation, defogging, highlight compensation, electronic image stabilization

Audio

Audio streaming	Two-way, stereo **HD-SDI:** SMPTE ST 299-1 **3G-SDI:** SMPTE ST 299-2
Audio encoding	SDI: AES3 24 bit, 48 kHz HDMI: LPCM Network: AAC LC 8/16/32/44.1/48 kHz, G.711 PCM 8 kHz, G.726 ADPCM 8 kHz, Opus 8/16/48 kHz, LPCM 48 kHz, Configurable bit rate
XLR input	2 balanced inputs (left/right) Microphone phantom power 48 V Balanced external microphone Balanced line level **Line input impedance:** >10 kOhm **Maximum input level:** 4.4 Vrms **Bandwidth:** 20 Hz - 20 kHz (±3 dB), may be limited by sample rate **THD+N:** < 0.03% **Signal-to-Noise ratio:** > 85 dB @ 0 dB gain, > 78 dB @ 30 dB gain
3.5 mm input	Microphone Power 5 V via 2.2 kOhm Unbalanced external microphone Unbalanced line **Line input impedance:** >10 kOhm **Maximum input level:** 2.2 Vrms **Bandwidth:** 20 Hz - 20 kHz (±3 dB), may be limited by sample rate **THD+N:** < 0.03% **Signal-to-Noise ratio:** > 87 dB @ 0 dB gain, > 83 dB @ 30 dB gain
3.5 mm output	**3.5 mm unbalanced stereo output** **Output impedance:** < 100 Ohm, short circuit proof **Maximum output level:** > 0.707 Vrms **Bandwidth:** 20 Hz - 20 kHz (±3 dB), may be limited by sample rate **THD+N:** < 0.03% @ 10 kOhm load **Signal-to-Noise ratio:** > 87 dB
SDI output	**Bandwidth:** 20 Hz - 20 kHz (±3 dB) **THD+N:** < 0.03% **Signal-to-Noise ratio:** > 87 dB
HDMI output	**Bandwidth:** 20 Hz - 20 kHz (±3 dB) **THD+N:** < 0.03% **Signal-to-Noise ratio:** > 87 dB

Network

Security	IP address filtering, HTTPS[a] encryption, IEEE 802.1x (EAP-TLS)[a] network access control, user access log, centralized certificate management
Network protocols	IPv4/v6, ICMPv4/ICMPv6, HTTP, HTTP/2, HTTPS[a], TLS[a], QoS Layer 3 DiffServ, FTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP™, SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, NTS, RTSP, RTP, SFTP, TCP, UDP, IGMP, RTCP, ICMP, DHCPv4/v6, ARP, SSH, SIP, LLDP, CDP, MQTT, Syslog, Link-Local address (ZeroConf), HDMI, 3G-SDI, VISCA

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, specification at *onvif.org* Support for Session Initiation Protocol (SIP) for integration with Voice over IP (VoIP) systems, peer to peer or integrated with SIP/PBX.
Event conditions	Analytics, external input, edge storage events, virtual inputs through API Audio: audio detection Call: state, state change 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 I/O: digital input, 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, live stream open
Event actions	MQTT publish Record video: SD card and network share Upload of images or video clips: FTP, SFTP, HTTP, HTTPS, network share and email Pre- and post-alarm video or image buffering for recording or upload Notification: email, HTTP, HTTPS, TCP and SNMP trap PTZ: PTZ preset Overlay text, external output activation, play audio clip, zoom preset, day/night mode, make call
Data streaming	Event data

Built-in installation aids	Pixel counter, leveling guide

Analytics

Applications	**Included** AXIS Video Motion Detection, AXIS PTZ Autotracking Support for AXIS Camera Application Platform enabling installation of third-party applications, see *axis.com/acap*

Cybersecurity

Edge security	**Software:** Signed firmware, brute force delay protection, digest authentication, password protection, AES-XTS-Plain64 256bit SD card encryption **Hardware:** Secure boot
Network security	IEEE 802.1X (EAP-TLS)[a], HTTPS/HSTS[a], TLS v1.2/v1.3[a], Network Time Security (NTS), X.509 Certificate PKI, IP address filtering
Documentation	*AXIS OS Hardening Guide* *Axis Vulnerability Management Policy* *Axis Security Development Model* To download documents, go to *axis.com/support/cybersecurity/resources* To read more about Axis cybersecurity support, go to *axis.com/cybersecurity*

General

Casing	ASA plastic cover Color: White NCS S 1002-B
Power	11–13 V DC (12 V power supply included), typical 17.5 W, max 20 W
Connectors	RJ45 10BASE-T/100BASE-TX/1000BASE-T Terminal block for 1 alarm input and 1 output 3.5 mm stereo mic/line in, 3.5 mm stereo line out XLR-3 (left + right) mic/line in (with 48 V phantom power) HDMI Type A, BNC for SDI DC input RS232 serial connector for VISCA
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	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)
Approvals	**EMC** EN 55032 Class A, EN 55024, EN 55035, EN 61000-3-2, EN 61000-3-3, EN 61000-6-1, EN 61000-6-2, FCC Part 15 Subpart B Class A, ICES-3(A)/NMB-3(A), VCCI Class A, RCM AS/NZS CISPR 32 Class A, CISPR 24, CISPR 35, KC KN32 Class A, KC KN35 **Safety** IEC/EN/UL 62368-1, CAN/CSA C22.2 No. 62368-1, KC-Markk, IS 13252 **Environment** IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-14, IEC 60068-2-27, IEC 60068-2-78 **Network** NIST SP500-267
Dimensions	Height: 180 mm (7.1 in) ø 136 mm (5.4 in)
Weight	1.5 kg (3.3 lb)
Included accessories	Power supply, wall/ceiling mount, terminal connector for I/O, installation guide, Windows® decoder user license, Camstreamer 3-month trial
Optional accessories	AXIS T8310 Video Surveillance Control Board AXIS VISCA Cable For more accessories, see *axis.com*
Languages	English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Traditional Chinese
Warranty	5-year warranty, see *axis.com/warranty*

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).*

Environmental responsibility:

axis.com/environmental-responsibility