

# 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<sup>®</sup> 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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<b>Camera</b>		THD+N: < 0.03%
<b>Image sensor</b>	Progressive scan RGB CMOS 1/2.5"	<b>Signal-to-Noise ratio:</b> > 85 dB @ 0 dB gain, > 78 dB @ 30 dB gain
<b>Lens</b>	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	<b>3.5 mm input</b> Microphone Power 5 V via 2.2 kOhm Unbalanced external microphone Unbalanced line <b>Line input impedance:</b> >10 kOhm <b>Maximum input level:</b> 2.2 Vrms <b>Bandwidth:</b> 20 Hz – 20 kHz (±3 dB), may be limited by sample rate THD+N: < 0.03% <b>Signal-to-Noise ratio:</b> > 87 dB @ 0 dB gain, > 83 dB @ 30 dB gain
<b>Day and night</b>	Automatically removable infrared-cut filter	<b>3.5 mm output</b> <b>3.5 mm unbalanced stereo output</b> <b>Output impedance:</b> < 100 Ohm, short circuit proof <b>Maximum output level:</b> > 0.707 Vrms <b>Bandwidth:</b> 20 Hz – 20 kHz (±3 dB), may be limited by sample rate THD+N: < 0.03% @ 10 kOhm load <b>Signal-to-Noise ratio:</b> > 87 dB
<b>Minimum illumination</b>	<b>Color:</b> 0.7 lux at 30 IRE F2.0 1 lux at 50 IRE F2.0 <b>B/W:</b> 0.06 lux at 30 IRE F2.0 0.1 lux at 50 IRE F2.0	<b>SDI output</b> <b>Bandwidth:</b> 20 Hz – 20 kHz (±3 dB) THD+N: < 0.03% <b>Signal-to-Noise ratio:</b> > 87 dB
<b>Shutter speed</b>	1/10000 s to 1 s	<b>HDMI output</b> <b>Bandwidth:</b> 20 Hz – 20 kHz (±3 dB) THD+N: < 0.03% <b>Signal-to-Noise ratio:</b> > 87 dB
<b>Pan/Tilt/Zoom</b>	<b>Pan:</b> ±170°, 0.2–100°/s <b>Tilt:</b> –20° – 90°, 0.2–90°/s <b>Zoom:</b> 20x Optical, 12x Digital, Total 240x 256 presets positions, Control queue, On-screen directional indicator, Adjustable zoom speed, PTZ response profiles	<b>Network</b>
<b>System on chip (SoC)</b>		<b>Security</b> IP address filtering, HTTPS <sup>a</sup> encryption, IEEE 802.1x (EAP-TLS) <sup>a</sup> network access control, user access log, centralized certificate management
<b>Model</b>	ARTPEC-7	<b>Network protocols</b> IPv4/v6, ICMPv4/ICMPv6, HTTP, HTTP/2, HTTPS <sup>a</sup> , TLS <sup>a</sup> , 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, Secure syslog (RFC 3164/5424, UDP/TCP/TLS), Link-Local address (ZeroConf), HDMI, 3G-SDI, VISCA
<b>Memory</b>	2 GB RAM, 512 MB Flash	<b>System integration</b>
<b>Video</b>		<b>Application Programming Interface</b> Open API for software integration, including VAPIX <sup>®</sup> and AXIS Camera Application Platform; specifications at <i>axis.com</i> One-click cloud connection ONVIF <sup>®</sup> Profile G, ONVIF <sup>®</sup> Profile M, ONVIF <sup>®</sup> Profile S, ONVIF <sup>®</sup> Profile T, specification at <i>onvif.org</i> Support for Session Initiation Protocol (SIP) for integration with Voice over IP (VoIP) systems, peer to peer or integrated with SIP/PBX.
<b>Video compression</b>	H.264 (MPEG-4 Part 10/AVC) Baseline, Main and High Profiles H.265 (MPEG-H Part 2/HEVC) Main Profile Motion JPEG	<b>Event conditions</b> 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
<b>Resolution</b>	3840x2160 HDTV 2160p to 160x90 <b>HDMI Output:</b> 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) <b>SDI Output:</b> 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)	<b>Event actions</b> 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
<b>Frame rate</b>	Up to 30/25 fps (60/50 Hz) in 4K Up to 60/50 fps (60/50 Hz) in all other resolutions	<b>Data streaming</b> Event data
<b>Video streaming</b>	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)	
<b>Image settings</b>	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	
<b>Audio</b>		
<b>Audio streaming</b>	Two-way, stereo HD-SDI: SMPTE ST 299-1 3G-SDI: SMPTE ST 299-2	
<b>Audio encoding</b>	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	
<b>XLR input</b>	2 balanced inputs (left/right) Microphone phantom power 48 V Balanced external microphone Balanced line level <b>Line input impedance:</b> >10 kOhm <b>Maximum input level:</b> 4.4 Vrms <b>Bandwidth:</b> 20 Hz – 20 kHz (±3 dB), may be limited by sample rate	

<b>Built-in installation aids</b>	Pixel counter, leveling guide
<b>Analytics</b>	
<b>Applications</b>	<b>Included</b> AXIS Video Motion Detection, AXIS PTZ Autotracking Support for AXIS Camera Application Platform enabling installation of third-party applications, see <a href="http://axis.com/acap">axis.com/acap</a>
<b>Cybersecurity</b>	
<b>Edge security</b>	<b>Software:</b> Signed firmware, brute force delay protection, digest authentication, password protection, AES-XTS-Plain64 256bit SD card encryption <b>Hardware:</b> Secure boot
<b>Network security</b>	IEEE 802.1X (EAP-TLS) <sup>a</sup> , HTTPS/HSTS <sup>a</sup> , TLS v1.2/v1.3 <sup>a</sup> , Network Time Security (NTS), X.509 Certificate PKI, IP address filtering
<b>Documentation</b>	<i>AXIS OS Hardening Guide</i> <i>Axis Vulnerability Management Policy</i> <i>Axis Security Development Model</i> AXIS OS Software Bill of Material (SBOM) To download documents, go to <a href="http://axis.com/support/cybersecurity/resources">axis.com/support/cybersecurity/resources</a> To read more about Axis cybersecurity support, go to <a href="http://axis.com/cybersecurity">axis.com/cybersecurity</a>
<b>General</b>	
<b>Casing</b>	ASA plastic cover Color: White NCS S 1002-B
<b>Power</b>	11–13 V DC (12 V power supply included), typical 17.5 W, max 20 W
<b>Connectors</b>	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
<b>Storage</b>	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 <a href="http://axis.com">axis.com</a>
<b>Operating conditions</b>	0 °C to 40 °C (32 °F to 104 °F) Humidity 10–85% RH (non-condensing)
<b>Storage conditions</b>	–40 °C to 65 °C (–40 °F to 149 °F) Humidity 5 – 95% RH (non-condensing)
<b>Approvals</b>	<b>EMC</b> 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 <b>Safety</b> IEC/EN/UL 62368-1, CAN/CSA C22.2 No. 62368-1, KC-Markk, IS 13252 <b>Environment</b> IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-14, IEC 60068-2-27, IEC 60068-2-78 <b>Network</b> NIST SP500-267
<b>Dimensions</b>	Height: 180 mm (7.1 in) ø 136 mm (5.4 in)
<b>Weight</b>	1.5 kg (3.3 lb)
<b>Included accessories</b>	Power supply, wall/ceiling mount, terminal connector for I/O, installation guide, Windows® decoder user license, Camstreamer 3-month trial
<b>Optional accessories</b>	AXIS T8310 Video Surveillance Control Board AXIS VISCA Cable For more accessories, see <a href="http://axis.com">axis.com</a>
<b>Languages</b>	English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Traditional Chinese
<b>Warranty</b>	5-year warranty, see <a href="http://axis.com/warranty">axis.com/warranty</a>

- 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).*