

# AXIS P5654-E PTZ Network Camera

Wide angle PTZ with HDTV 720p and 21x zoom

AXIS P5654-E PTZ Network Camera is a cost-effective, high performance PTZ camera that offers wide area coverage with 77° field of view. It features Lightfinder 2.0 to capture low-light images with more saturated colors and sharper images of moving objects. And, Forensic WDR for clarity even when there's both dark and light areas in the scene. Electronic image stabilization for stable images 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 extended capabilities for advanced analytics.

- > [HDTV 720p with 21x optical zoom](#)
- > [Lightfinder 2.0 and Forensic WDR](#)
- > [Signed firmware and secure boot](#)
- > [Electronic image stabilization](#)
- > [Zipstream with support for H.264 and H.265](#)



# AXIS P5654-E PTZ Network Camera

<b>Models</b>	AXIS P5654-E 50 Hz AXIS P5654-E 60 Hz	<b>Event actions</b>	Day-night mode, go to preset position, guard tour, 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
<b>Camera</b>		<b>Built-in installation aids</b>	Pixel counter
<b>Image sensor</b>	1/2.8" progressive scan RGB CMOS	<b>Analytics</b>	
<b>Lens</b>	Varifocal, 4.0-84.6 mm, F1.6 - 4.5 Horizontal field of view: 77.0°- 3.6° Vertical field of view: 43.1°- 2.0° Autofocus and auto-iris	<b>AXIS Object Analytics</b>	Object classes: humans, vehicles Scenarios: line crossing, object in area, crossline counting, time in area Up to 10 scenarios Metadata visualized with trajectories, color-coded bounding boxes and tables Polygon include/exclude areas Perspective configuration ONVIF Motion Alarm event
<b>Day and night</b>	Automatically removable infrared-cut filter	<b>Metadata</b>	Object data: Classes: humans, faces, vehicles (types: cars, buses, trucks, bikes), license plates Confidence, position
<b>Minimum illumination</b>	Color: 0.11 lux at 50 IRE F1.6 Color: 0.1 lux at 30 IRE F1.6 B/W: 0.03 lux at 50 IRE F1.6 B/W: 0.01 lux at 30 IRE F1.6	<b>Applications</b>	Included AXIS Object Analytics AXIS Video Motion Detection, AXIS Motion Guard, AXIS Fence Guard, AXIS Loitering Guard, advanced gatekeeper, autotracker 2 Support for AXIS Camera Application Platform enabling installation of third-party applications, see <a href="http://axis.com/acap">axis.com/acap</a>
<b>Shutter speed</b>	1/66500 s to 2 s	<b>Approvals</b>	
<b>Pan/Tilt/Zoom</b>	Pan: 360° endless, 0.1°- 350°/s Tilt: 180°, 0.1°- 350°/s Zoom: 21x optical, 12x digital, Total 252x zoom 256 preset positions, e-flip, limited guard tour, control queue, on-screen directional indicator, set new pan 0°, focus window, focus recall	<b>EMC</b>	EN 50121-4, EN 55024, EN 55032 Class A, 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), IEC 62236-4, KC KN32 Class A, KC KN35, RCM AS/NZS CISPR 32 Class A, VCCI Class A
<b>System on chip (SoC)</b>		<b>Safety</b>	IEC/EN/UL 62368-1, IEC/EN/UL 60950-22, IS 13252
<b>Model</b>	ARTPEC-7	<b>Environment</b>	IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-14, IEC 60068-2-27, EC 60068-2-78, IEC/EN 60529 IP66, IEC/EN 62262 IK10, NEMA 250 Type 4X
<b>Memory</b>	1024 MB RAM, 512 MB Flash	<b>Network</b>	NIST SP500-267, IPv6 USGv6
<b>Compute capabilities</b>	Machine learning processing unit (MLPU)	<b>Cybersecurity</b>	
<b>Video</b>		<b>Edge security</b>	Software: Signed firmware, brute force delay protection, digest authentication and OAuth 2.0 RFC6749 OpenID Authorization Code Flow for centralized ADFS account management, password protection, AES-XTS-Plain64 256bit SD card encryption Hardware: Secure boot
<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>Network security</b>	IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2), IEEE 802.1AE (MACsec PSK/EAP-TLS), HTTPS/HSTS, TLS v1.2/v1.3, Network Time Security (NTS), X.509 Certificate PKI, host-based firewall
<b>Resolution</b>	1280x720 HDTV 720p to 320x180	<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>Frame rate</b>	Up to 60/50 fps (60/50 Hz) in all resolutions	<b>General</b>	
<b>Video streaming</b>	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	<b>Casing</b>	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.
<b>Image settings</b>	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	<b>Sustainability</b>	PVC free
<b>Network</b>		<b>Power</b>	Axis PoE+ midspan 1-port: 100-240 V AC, max 37 W IEEE 802.3at, Type 2 Class 4 Camera consumption: typical 8 W, max 16 W (PoE+ midspan not included)
<b>Network protocols</b>	IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTP/2, HTTPS, TLS, 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)	<b>Connectors</b>	RJ45 10BASE-T/100BASE-TX PoE RJ45 push-pull connector (IP66) included
<b>System integration</b>		<b>Storage</b>	Support for SD/SDHC/SDXC card
<b>Application Programming Interface</b>	Open API for software integration, including VAPIX® and AXIS Camera Application Platform; specifications at <a href="http://axis.com">axis.com</a> One-click cloud connection ONVIF® Profile G, ONVIF® Profile M, ONVIF® Profile S, and ONVIF® Profile T, specification at <a href="http://onvif.org">onvif.org</a>		
<b>Event conditions</b>	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 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		

	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>	-30 °C to 50 °C (-22 °F to 122 °F) Maximum intermittent temperature 55°C Humidity 10–100% RH (condensing)	<b>Optional accessories</b>	AXIS T91B mounts, AXIS T94A02L recessed mount, outdoor RJ45 cable with premounted connector, AXIS T8133 Midspan 30 W 1-port, repaintable skin covers For more accessories, see <a href="http://axis.com">axis.com</a>
<b>Storage conditions</b>	-40 °C to 65 °C (-40 °F to 149 °F) Humidity 5–95% RH (non-condensing)	<b>Video management software</b>	AXIS Companion, AXIS Camera Station, video management software from Axis Application Development Partners available at <a href="http://axis.com/vms">axis.com/vms</a>
<b>Dimensions</b>	Height: 217 mm (8.54 in) ø 188 mm (7.4 in)	<b>Languages</b>	English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Traditional Chinese, Dutch, Czech, Swedish, Finnish, Turkish, Thai, Vietnamese
<b>Weight</b>	2.5 kg (5.5 lb)	<b>Warranty</b>	5-year warranty, see <a href="http://axis.com/warranty">axis.com/warranty</a>
<b>Included accessories</b>	RJ45 Push-pull Connector (IP66), hard ceiling mount, spring pipe adaptor, U-profile pipe adaptor, installation guide, Windows® decoder 1-user license, smoked dome		