

# 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	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
<b>Camera</b>		
<b>Image sensor</b>	1/2.8" progressive scan RGB CMOS	
<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>Day and night</b>	Automatically removable infrared-cut filter	
<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>Shutter speed</b>	1/66500 s to 2 s	
<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>System on chip (SoC)</b>		
<b>Model</b>	ARTPEC-7	
<b>Memory</b>	1024 MB RAM, 512 MB Flash	
<b>Compute capabilities</b>	Machine learning processing unit (MLPU)	
<b>Video</b>		
<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>Resolution</b>	1280x720 HDTV 720p to 320x180	
<b>Frame rate</b>	Up to 60/50 fps (60/50 Hz) in all resolutions	
<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>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>Network</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>Network protocols</b>	IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTP/2, HTTPS <sup>a</sup> , TLS <sup>a</sup> , QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP <sup>®</sup> , 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>System integration</b>		
<b>Application Programming Interface</b>	Open API for software integration, including VAPIX <sup>®</sup> and AXIS Camera Application Platform; specifications at <a href="http://axis.com">axis.com</a> One-click cloud connection ONVIF <sup>®</sup> Profile G, ONVIF <sup>®</sup> Profile M, ONVIF <sup>®</sup> Profile S, and ONVIF <sup>®</sup> 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	
<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>Built-in installation aids</b>	Pixel counter	
<b>Analytics</b>		
<b>AXIS Object Analytics</b>	Object classes: humans, vehicles Features: line crossing, object in area, crossline counting <sup>BETA</sup> , time in area <sup>BETA</sup> 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>Metadata</b>	Object data: Classes: humans, faces, vehicles, license plates Confidence, position	
<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>Cybersecurity</b>		
<b>Edge security</b>	Software: Signed firmware, brute force delay protection, digest authentication, password protection, AES-XTS-Plain64 256bit SD card encryption Hardware: 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>	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>Sustainability</b>	PVC free	
<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>Connectors</b>	RJ45 10BASE-T/100BASE-TX PoE RJ45 push-pull connector (IP66) included	
<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>	-30 °C to 50 °C (-22 °F to 122 °F) Maximum intermittent temperature 55 °C Humidity 10-100% RH (condensing)	
<b>Storage conditions</b>	-40 °C to 65 °C (-40 °F to 149 °F) Humidity 5-95% RH (non-condensing)	
<b>Approvals</b>	EMC 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,	

	<p>KC KN32 Class A, KC KN35, RCM AS/NZS CISPR 32 Class A, VCCI Class A</p> <p><b>Safety</b> IEC/EN/UL 62368-1, IEC/EN/UL 60950-22, IS 13252</p> <p><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</p> <p><b>Network</b> NIST SP500-267, IPv6 USGv6</p>	
<b>Dimensions</b>	Height: 217 mm (8.54 in) ø 188 mm (7.4 in)	
<b>Weight</b>	2.5 kg (5.5 lb)	
<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	<p><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></p> <p><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></p> <p><b>Languages</b>    English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Traditional Chinese, Dutch, Czech, Swedish, Finnish, Turkish, Thai, Vietnamese</p> <p><b>Warranty</b>    5-year warranty, see <a href="http://axis.com/warranty">axis.com/warranty</a></p>
		<p>a. <i>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).</i></p>