

# AXIS P1378 Network Camera

Excellent details in 4K under any circumstances

AXIS P1378 captures excellent detailed images in 4K resolution. Featuring Axis Lightfinder and Axis Forensic WDR it delivers true colors and great details in challenging light or near darkness. It offers P-Iris for images with better contrast, clarity, resolution and depth of field. Designed to act as a deterrent, it includes electronic image stabilization for stable images as well as enhanced security features, barrel distortion correction, shock detection and scene profiles. Axis Zipstream supporting H.264/H.265 provides exceptional savings on bandwidth and storage. Plus, with CS mount and support for motorized i-CS, you can easily change lens to meet your requirements.

- > **4K resolution**
- > **Lightfinder and Forensic WDR**
- > **Signed firmware and secure boot**
- > **Electronic image stabilization**
- > **Zipstream supporting H.264 and H.265**



# AXIS P1378 Network Camera

<b>Camera</b>		<b>Onscreen controls</b>	Electronic image stabilization Day/night shift Defogging Wide dynamic range
<b>Image sensor</b>	1/1.8" progressive scan RGB CMOS	<b>Event triggers</b>	Analytics, shock detection, edge storage events, supervised external input, audio level, time scheduled MQTT subscribe
<b>Lens</b>	IR corrected, CS-mount lens, P-Iris Varifocal 3.9–10 mm, F1.5 Horizontal field of view: 119°–45° Vertical field of view: 62°–25°	<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, start/stop guard tour Overlay text, external output activation, play audio clip, WDR mode, day/night mode
<b>Day and night</b>	Automatically removable infrared-cut filter	<b>Data streaming</b>	Event data
<b>Minimum illumination</b>	4K 25/30 fps with Forensic WDR and Lightfinder: Color: 0.15 lux, at 50 IRE F1.5 B/W: 0.03 lux, at 50 IRE F1.5	<b>Built-in installation aids</b>	Focus assistant, pixel counter, remote back focus, autorotation, remote focus and zoom and with optional i-CS lens.
<b>Shutter speed</b>	1/8500 s to 1/5 s	<b>Analytics</b>	
<b>System on chip (SoC)</b>		<b>Applications</b>	<b>Included</b> AXIS Object Analytics, AXIS Scene Metadata, AXIS Live Privacy Shield <sup>a</sup> , AXIS Video Motion Detection, <b>Supported</b> Support for AXIS Camera Application Platform enabling installation of third-party applications, see <a href="https://axis.com/acap">axis.com/acap</a>
<b>Model</b>	ARTPEC-7	<b>AXIS Object Analytics</b>	<b>Object classes:</b> humans, vehicles <b>Scenarios:</b> line crossing, object in area, crossline counting, time in area Up to 10 scenarios <b>Other features:</b> triggered objects visualized with trajectories, color-coded bounding boxes and tables Polygon include/exclude areas Perspective configuration ONVIF Motion Alarm event
<b>Memory</b>	2 GB RAM, 512 MB Flash	<b>Cybersecurity</b>	
<b>Compute capabilities</b>	Machine learning processing unit (MLPU)	<b>Edge security</b>	<b>Software:</b> Signed OS, 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 <b>Hardware:</b> Secure boot
<b>Video</b>		<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>Video compression</b>	H.264 (MPEG-4 Part 10/AVC) Baseline, Main and High Profiles H.265 (MPEG-H Part 2/HEVC) Motion JPEG	<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="https://axis.com/support/cybersecurity/resources">axis.com/support/cybersecurity/resources</a> To read more about Axis cybersecurity support, go to <a href="https://axis.com/cybersecurity">axis.com/cybersecurity</a>
<b>Resolution</b>	3840x2160 (4K) to 160x90	<b>General</b>	
<b>Frame rate</b>	25/30 fps (50/60 Hz) in all resolutions	<b>Casing</b>	Metal (zinc) Color lid: White NCS S 1002-B Color chassis: Black NCS S 9002-N
<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 Low latency mode Video streaming indicator	<b>Mounting</b>	¼"-20 tripod screw thread Camera stand included
<b>Multi-view streaming</b>	Up to 8 individually cropped out view areas	<b>Sustainability</b>	Free of hazardous brominated and chlorinated flame retardants (BFR/CFR free)
<b>Image settings</b>	Saturation, contrast, brightness, sharpness, Forensic WDR: Up to 120 dB depending on scene, white balance, day/night threshold, exposure mode, exposure zones, local contrast, tone mapping, compression, orientation: auto, 0°, 90°, 180°, 270° including Corridor Format, mirroring of images, dynamic text and image overlay, privacy masks, defogging, electronic image stabilization, barrel distortion correction, scene profiles: forensic, vivid, traffic overview	<b>Power</b>	12–28 V DC, max 10.5 W, typical 6.1 W Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 1 Class 3, max 10.7 W, typical 6.2 W Power redundancy
<b>Pan/Tilt/Zoom</b>	Digital PTZ Uploadable PTZ driver (Pelco D pre-installed)	<b>Connectors</b>	RJ45 10BASE-T/100BASE-TX/1000BASE-T I/O: 6-pin 2.5 mm terminal block, for 2 supervised alarm inputs and 2 outputs RS485/RS422, 2 pcs, 2 pos, full duplex, terminal block DC input, terminal block, 3.5 mm mic/line in, 3.5 mm line out
<b>Audio</b>			
<b>Audio streaming</b>	Two-way, full duplex		
<b>Audio encoding</b>	AAC LC 8/16/32/48 kHz, G.711 PCM 8 kHz, G.726 ADPCM 8 kHz, Opus 8/16/48 kHz, LPCM 48 kHz Configurable bit rate		
<b>Audio input/output</b>	External microphone input, line input, digital input with ring power, line output, built-in microphone (can be disabled), automatic gain control		
<b>Network</b>			
<b>Network protocols</b>	IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPS, HTTP/2, TLS, QoS Layer 3 DiffServ, FTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP™, SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, NTS, RTSP, RTP, SRTP/RTSPS, SFTP, TCP, UDP, IGMPv1/v2/v3, RTCP, ICMP, DHCPv4/v6, ARP, SSH, 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® and AXIS Camera Application Platform, specifications at <a href="https://axis.com/developer-community">axis.com/developer-community</a> . One-Click Cloud Connection ONVIF® Profile G, ONVIF® Profile M, ONVIF® Profile S, and ONVIF® Profile T, specification at <a href="https://onvif.org">onvif.org</a>		
<b>Video management systems</b>	Compatible with AXIS Camera Station Edge, AXIS Camera Station Pro, AXIS Camera Station 5, and video management software from Axis' partners available at <a href="https://axis.com/vms">axis.com/vms</a> .		

	i-CS connector (compatible with P-Iris and DC-iris) Security lock slot AXIS T92G20 connector	<b>Network</b> NIST SP500-267
<b>Storage</b>	Support for microSD/microSDHC/microSDXC 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 <a href="http://axis.com">axis.com</a>	<b>Dimensions</b> 214 x 80 x 57 mm (8 7/16 x 3 1/8 x 2 1/4 in)
<b>Operating conditions</b>	-10 °C to 55 °C (14 °F to 131 °F) Humidity 10-85% RH (non-condensing)	<b>Weight</b> 750 g (1.7 lb)
<b>Storage conditions</b>	-40 °C to 65 °C (-40 °F to 149 °F) Humidity 5-95% RH (non-condensing)	<b>Included accessories</b> Connector kit, Installation Guide, Windows® decoder 1-user license, stand, Resistorx® L-key TR20, Torx® L-key T6
<b>Approvals</b>	<b>EMC</b> EN 55032 Class A, EN 61000-3-2, EN 61000-3-3, EN 55024, EN 61000-6-1, EN 61000-6-2, FCC Part 15 Subpart B Class A, ICES-003 Class A, VCCI Class A, RCM AS/NZS CISPR 32 Class A, KCC KN32 Class A, KN35 <b>Safety</b> IEC/EN/UL 62368-1, CAN/CSA C22.2 No. 62368-1, 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>Optional lenses</b> Lens CS 4-10 mm F0.9 P-Iris Lens i-CS 3.9-10 mm F1.5 8 MP Lens i-CS 9-50 mm F1.5 8 MP
		<b>Optional accessories</b> Axis mounts, Axis lenses, Axis midspans, Axis microphones AXIS TQ1809-LE Housing T92G AXIS T8355 Digital Microphone 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, Dutch, Czech, Swedish, Finnish, Turkish, Thai, Vietnamese, Polish
		<b>Warranty</b> 5-year warranty, see <a href="http://axis.com/warranty">axis.com/warranty</a>

a. Available for download