

# AXIS P1378-LE Network Camera

Excellent details in 4K for the great outdoors

With a robust design, AXIS P1378-LE offers excellent details in 4K resolution and can withstand extreme temperatures ranging from -40 °C to 60 °C (-40 °F to 140 °F). For extra protection an optional weathershield is available. It delivers excellent details in challenging or low light and includes Axis OptimizedIR for surveillance in pitch darkness. Designed as a deterrent, it includes electronic image stabilization, shock detection, tampering alarm and video streaming indicator. 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](#)
- > [OptimizedIR and Forensic WDR](#)
- > [Signed firmware and secure boot](#)
- > [Electronic image stabilization](#)
- > [Zipstream supporting H.264 and H.265](#)



# AXIS P1378-LE Network Camera

Camera	
<b>Image sensor</b>	1/1.8" progressive scan RGB CMOS
<b>Lens</b>	IR corrected, CS-mount lens, P-Iris Varifocal 3.9–10 mm, F1.5 Horizontal field of view: 115°–45° Vertical field of view: 61°–25°
<b>Day and night</b>	Automatically removable infrared-cut filter
<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 0 lux with IR illumination on
<b>Shutter time</b>	1/8500 s to 1/5 s
Video	
<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 Controllable frame rate and bandwidth
<b>Resolution</b>	3840x2160 (4K) to 160x90
<b>Frame rate</b>	25/30 fps (50/60 Hz)
<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 Video streaming indicator
<b>Multi-view streaming</b>	Up to 8 individually cropped out view areas
<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>Pan/Tilt/Zoom</b>	Digital PTZ Uploadable PTZ driver (Pelco D pre-installed)
Audio	
<b>Audio streaming</b>	Two-way, full duplex
<b>Audio compression</b>	AAC LC 8/16/32/48 kHz, G.711 PCM 8 kHz, G.726 ADPCM 8 kHz, Opus 8/16/48 kHz, LPCM 8/16/32/48 kHz Configurable bit rate
<b>Audio input/output</b>	External microphone input, line input, digital input with ring power, line output, automatic gain control
Network	
<b>Security</b>	Password protection, IP address filtering, HTTPS <sup>a</sup> encryption, IEEE 802.1X (EAP-TLS) <sup>a</sup> network access control, digest authentication, user access log, centralized certificate management, brute force delay protection, signed firmware, secure boot
<b>Supported protocols</b>	IPv4, IPv6 USGv6, HTTP, HTTPS <sup>a</sup> , SSL/TLS <sup>a</sup> , QoS Layer 3 DiffServ, FTP, CIFS/SMB, SMTP, Bonjour, UPnP™, SNMP v1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, RTSP, RTP, SFTP, SRTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP, ARP, SOCKS, SSH, LLDP, MQTT
System integration	
<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> AXIS Video Hosting System (AVHS) with One-Click Connection ONVIF <sup>®</sup> Profile G, ONVIF <sup>®</sup> Profile S and ONVIF <sup>®</sup> Profile T, specification at <a href="http://onvif.org">onvif.org</a>
<b>Onscreen controls</b>	Electronic image stabilization Day/night shift Defogging Wide dynamic range
<b>Analytics</b>	<b>Included</b> AXIS Video Motion Detection, active tampering alarm, audio detection <b>Supported</b>

	AXIS Live Privacy Shield, AXIS Perimeter Defender, AXIS Guard Suite including AXIS Motion Guard, AXIS Fence Guard, and AXIS Loitering Guard Support for AXIS Camera Application Platform enabling installation of third-party applications, see <a href="http://axis.com/acap">axis.com/acap</a>
<b>Event triggers</b>	Analytics, shock detection, open casing, edge storage events, supervised external input, audio level, time scheduled
<b>Event actions</b>	File upload: FTP, SFTP, HTTP, HTTPS, network share and email Notification: email, HTTP, HTTPS and TCP External output activation Video recording to edge storage, Play audio clip Pre- and post-alarm video buffering PTZ preset, Guard tour, Overlay text Day/Night switching, Status LED activation Send SNMP trap
<b>Data streaming</b>	Event data
<b>Built-in installation aids</b>	Focus assistant, pixel counter, remote back focus, autorotation, remote focus and zoom and with optional i-CS lens.
General	
<b>Casing</b>	IP66-, IP67- and NEMA 4X-rated, IK10 impact-resistant polymer enclosure with aluminium base and intrusion alarm switch Weathershield with black anti-glare coating Color: White NCS S 1002-B
<b>Sustainability</b>	PVC free
<b>Memory</b>	2 GB RAM, 512 MB Flash
<b>Power</b>	12–28 V DC, max 19.9 W, typical 11.1 W Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 2 Class 4, max 20.7 W, typical 11.7 W <b>With disabled IR:</b> Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 1 Class 3, max 12.95 W, typical 6.7 W Power redundancy
<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 i-CS connector (compatible with P-Iris and DC-iris)
<b>IR illumination</b>	Optimized IR with power-efficient, long-life 850 nm IR LEDs Range 50 m (164 ft) or more, depending on the scene
<b>Storage</b>	Support for microSD/microSDHC/microSDXC card Support for SD card encryption Support for 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>	–40 °C to 60 °C (–40 °F to 140 °F) Absolute maximum temperature: 74 °C (165 °F) according to NEMA TS2 2016, 2.2.7 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 55032 Class A, EN 50121–4, IEC 62236–4, 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 Safety IEC/EN/UL 62368–1, IEC/EN/UL 60950–22, IEC 62471 Environment IEC/EN 60529 IP66/IP67, NEMA 250 Type 4X, NEMA TS2 2016 (Subsection 2.2.7–2.2.9), IEC 60068–2–1, IEC 60068–2–2, IEC 60068–2–6, IEC 60068–2–14, IEC 60068–2–27, IEC 60068–2–78, IEC/EN 62262 IK10, IEC/EN 60529 IP67 Network NIST SP500–267
<b>Dimensions</b>	404 x 159 x 168 mm (15.9 x 6.3 x 6.6 in)
<b>Weight</b>	2.4 kg (5.3 lb)
<b>Included accessories</b>	Installation Guide, Windows <sup>®</sup> decoder 1–user license, wall mount bracket, sunshield, connector kit IK10 tool

	Torx® T20 screw driver, Torx® T30 screw bit AXIS P13 Weathershield Kit A pre-mounted AXIS Fixed Box IR Illuminator Kit A	<b>Languages</b>	English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Traditional Chinese
<b>Optional lenses</b>	Lens CS 12-50 mm F1.4 P-Iris 8 MP Lens i-CS 3.9-10 mm F1.5 5 MP Lens i-CS 9-50 mm F1.5 8 MP	<b>Warranty</b>	Axis 3-year warranty and AXIS Extended Warranty option, see <a href="https://axis.com/warranty">axis.com/warranty</a>
<b>Optional accessories</b>	Axis mounts, Axis lenses, Axis midspans, Axis microphones AXIS P13 Weathershield Extension A AXIS T8355 Digital Microphone AXIS T99A11 Positioning Unit 24 V AC/DC For more accessories, see <a href="https://axis.com">axis.com</a>		a. <i>This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (<a href="https://openssl.org/">openssl.org/</a>), and cryptographic software written by Eric Young (<a href="mailto:eyay@cryptsoft.com">eyay@cryptsoft.com</a>).</i>
<b>Video management software</b>	AXIS Companion, AXIS Camera Station, Video management software from Axis' Application Development Partners available at <a href="https://axis.com/vms">axis.com/vms</a>		Environmental responsibility: <a href="https://axis.com/environmental-responsibility">axis.com/environmental-responsibility</a>