

# AXIS P1377-LE Network Camera

Fully-equipped 5 MP surveillance for the great outdoors

With a robust design, AXIS P1377-LE offers excellent 5 MP video 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 great 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.

- > 30 fps in 5 MP or up to 180 fps in HDTV 720p
- > OptimizedIR and Forensic WDR
- > Signed firmware and secure boot
- > Electronic image stabilization
- > Zipstream supporting H.264 and H.265



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Camera	
<b>Image sensor</b>	1/2.7" progressive scan RGB CMOS
<b>Lens</b>	IR corrected, CS-mount lens, P-Iris Varifocal 2.8–8 mm, F1.2 Horizontal field of view: 90°–38° Vertical field of view: 67°–28°
<b>Day and night</b>	Automatically removable infrared-cut filter
<b>Minimum illumination</b>	HDTV 1080p 25/30 fps with Forensic WDR and Lightfinder: Color: 0.13 lux, at 50 IRE F1.2 B/W: 0.03 lux, at 50 IRE F1.2 0 lux with IR illumination on
<b>Shutter time</b>	WDR: 1/33500 s to 1/5 s No WDR: 1/50000 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>	2592x1944 (5 MP) to 160x90 2688x1512 (4 MP) to 160x90 1280x720 (HDTV 720p) to 160x90
<b>Frame rate</b>	Capture mode 5 MP: 25/30 fps (50/60 Hz) Capture mode 4 MP: 25/30 fps (50/60 Hz) Capture mode HDTV 720p: 180 fps
<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

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 <sup>™</sup> , SNMP v1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, RTSP, RTP, SFTP, SRTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP, ARP, SOCKS, SSH

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 Guardian 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 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>	1 GB RAM, 512 MB Flash
<b>Power</b>	12–28 V DC, max 19.1 W, typical 10.5 W Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 2 Class 4, max 20.4 W, typical 11.1 W <b>With disabled IR: Power over Ethernet (PoE)</b> 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>	<b>EMC</b> 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 <b>Safety</b> IEC/EN/UL 62368–1, IEC/EN/UL 60950–22, IEC 62471 <b>Environment</b> 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 <b>Network</b> 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® 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>Optional lenses</b>	Lens Computar i-CS 2.8-8.5 mm Tamron 5 MP Lens P-Iris 8-50 mm F1.6 Lens i-CS 9-50 mm F1.5 8 MP
<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 [axis.com](http://axis.com)

<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>Languages</b>	English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Traditional Chinese
<b>Warranty</b>	Axis 3-year warranty and AXIS Extended Warranty option, see <a href="http://axis.com/warranty">axis.com/warranty</a>
a. <i>This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (<a href="http://openssl.org/">openssl.org/</a>), and cryptographic software written by Eric Young (<a href="mailto:ey@cryptsoft.com">ey@cryptsoft.com</a>).</i>	

Environmental responsibility:

[axis.com/environmental-responsibility](http://axis.com/environmental-responsibility)