

# AXIS P1448-LE Network Camera

## Fully-featured, all-around 4K surveillance

AXIS P1448-LE Network Camera is a cost-effective, all-around camera providing excellent image quality at full frame rate in 8 megapixel resolution and in 16:9 format. Fully-featured with Lightfinder, OptimizedIR and Forensic WDR, forensic details are captured even in challenging light conditions including low light and strong backlight. Outdoor-ready with a wide temperature range, this sturdy and impact resistant camera has shock detection and is ready for extreme temperatures. AXIS P1448-LE offers easy installation with remote zoom and focus for fine tuning of the picture. With Axis Zipstream, I/O and audio support, AXIS P1448-LE got you covered.

- > **4K Ultra HD resolution in full frame rate**
- > **Ease of installation**
- > **Forensic WDR, Lightfinder, and OptimizedIR**
- > **I/O and audio support**
- > **Axis Zipstream technology**



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<b>Camera</b>	
<b>Image sensor</b>	1/2.5" progressive scan RGB CMOS
<b>Lens</b>	2.8–9.8 mm, F1.6 Horizontal field of view 109°–37° Vertical field of view 57°–21° Varifocal, Remote focus and zoom, P-Iris control, IR corrected
<b>Day and night</b>	Automatically removable infrared-cut filter
<b>Minimum illumination</b>	<b>Color:</b> 0.18 lux, at 50 IRE F1.6 <b>B/W:</b> 0.04 lux, at 50 IRE F1.6 0 lux with IR illumination on
<b>Shutter speed</b>	1/62500 s to 2 s
<b>Video</b>	
<b>Video compression</b>	H.264 (MPEG-4 Part 10/AVC) Baseline, Main and High Profiles Motion JPEG
<b>Resolution</b>	3840x2160 to 160x90
<b>Frame rate</b>	Up to 25/30 fps (50/60 Hz) in all resolutions
<b>Video streaming</b>	Multiple, individually configurable streams in H.264 and Motion JPEG Axis Zipstream technology in H.264 Controllable frame rate and bandwidth VBR/ABR/MBR H.264
<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, compression, orientation: auto, 0°, 90°, 180°, 270° including Corridor Format, mirroring of images, dynamic text and image overlay, privacy masks
<b>Pan/Tilt/Zoom</b>	Digital PTZ
<b>Audio</b>	
<b>Audio streaming</b>	Audio in, simplex
<b>Audio encoding</b>	24bit LPCM, AAC-LC 8/16/32/48 kHz, G.711 PCM 8 kHz, G.726 ADPCM 8 kHz, Opus 8/16/48 kHz Configurable bit rate
<b>Audio input/output</b>	External microphone input or line input Automatic gain control
<b>Network</b>	
<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
<b>Supported protocols</b>	IPv4, IPv6 USGv6, HTTP, HTTPS <sup>a</sup> , HTTP/2, SSL/TLS <sup>a</sup> , QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, Bonjour, UPnP <sup>®</sup> , SNMP v1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, RTSP, RTP, SRTP, TCP, UDP, IGMPv1/v2/v3, RTCP, ICMP, DHCPv4/v6, ARP, SOCKS, SSH, LLDP, MQTT v3.1.1, Syslog
<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> AXIS Video Hosting System (AVHS) with One-Click Connection One-click cloud 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>Event conditions</b>	<b>Analytics</b> Detectors: live stream accessed, video motion detection, audio detection, day/night mode, shock detection, tampering <b>Hardware:</b> network, temperature <b>Input Signal:</b> digital input port, manual trigger, virtual inputs <b>Storage:</b> disruption, recording <b>System:</b> system ready <b>Time:</b> recurrence, use schedule
<b>Event actions</b>	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, day/night mode
<b>Data streaming</b>	Event data
<b>Built-in installation aids</b>	Pixel counter, remote zoom (3.5x optical), remote focus, auto rotation
<b>Analytics</b>	
<b>Applications</b>	<b>Included</b> AXIS Motion Guard, AXIS Fence Guard, AXIS Loitering Guard AXIS Video Motion Detection <b>Supported</b> AXIS Digital Autotracking, AXIS Perimeter Defender, AXIS Cross Line Detection Support for AXIS Camera Application Platform enabling installation of third-party applications, see <a href="http://axis.com/acap">axis.com/acap</a>
<b>General</b>	
<b>Casing</b>	IP66/IP67-, NEMA 4X-, and IK10-rated casing Polycarbonate blend and aluminium Color: white NCS S 1002-B
<b>Sustainability</b>	PVC free
<b>Memory</b>	1024 MB RAM, 512 MB Flash
<b>Power</b>	Power over Ethernet IEEE 802.3af/802.3at Type 1 Class 3 Typical: 7.1 W, max 12.95 W
<b>Connectors</b>	Shielded RJ45 10BASE-T/100BASE-TX PoE 3.5 mm mic/line in I/O: 4-pin terminal block for 1 alarm input and 1 output
<b>IR illumination</b>	Optimized IR with power-efficient, long-life 850 nm IR LEDs Range of reach 25 m (82 ft) or more depending on the scene
<b>Storage</b>	Support for microSD/microSDHC/microSDXC 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>	-40 °C to 60 °C (-40 °F to 140 °F) Maximum temperature according to NEMA TS2 (2.2.7): 74 °C (165 °F) 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 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, IS 13252, IEC 62471 <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, IEC/EN 60529 IP66/IP67, IEC/EN 62262 IK10, NEMA 250 Type 4X, NEMA TS 2 (2.2.7-2.2.9) <b>Network</b> NIST SP500-267
<b>Weight</b>	With weather shield: 1 kg (2.2 lb)
<b>Dimensions</b>	Ø132 x 260 mm (Ø5 3/16 x 10 1/4 in)
<b>Included accessories</b>	Installation guide, Windows <sup>®</sup> decoder 1-user license, drill hole template, connector kit, mounting bracket AXIS Weather Shield L
<b>Optional accessories</b>	AXIS T94F01M J-Box/Gang Box Plate, AXIS T91A47 Pole Mount, AXIS T94P01B Corner Bracket, AXIS T94F01P Conduit Back Box, AXIS Weather Shield K, Axis PoE Midspans For more accessories, see <a href="http://axis.com">axis.com</a>
<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>	5-year warranty, see <a href="http://axis.com/warranty">axis.com/warranty</a>

a. This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. ([openssl.org](http://openssl.org)), and cryptographic software written by Eric Young ([ey@cryptsoft.com](mailto:ey@cryptsoft.com)).

Environmental responsibility:

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