

# AXIS P1455-LE Network Camera

Versatile, feature-rich 2 MP surveillance

AXIS P1455-LE offers excellent image quality in HDTV 1080p. Featuring Axis Lightfinder 2.0 and Axis Forensic WDR it delivers true colors and great detail in challenging light or near darkness. AXIS Object Analytics lets you detect and classify humans and vehicles. And, with edge-to-edge technology, it offers smart pairing functionality with Axis Network Speakers. Motion-adaptive exposure significantly reduces the motion blur from approaching or nearby objects, and OptimizedIR enables surveillance in pitch darkness. Furthermore, Axis Edge Vault protects your Axis device ID and simplifies authorization of Axis products on your network. The outdoor-ready camera comes with either a wide or a tele lens.

- > [Lightfinder 2.0 and Forensic WDR](#)
- > [OptimizedIR](#)
- > [AXIS Object Analytics](#)
- > [Enhanced security features](#)
- > [Two lens alternatives](#)



# AXIS P1455-LE Network Camera

| Camera               |   |
|----------------------|---|
| Image sensor         | 1/2.8" progressive scan RGB CMOS  |
| Lens                 | <b>AXIS P1455-LE 9 mm:</b><br>Varifocal, 3-9 mm, F1.6-3.3<br>Horizontal field of view 114°-37°<br>Vertical field of view 58°-21°<br>Varifocal, Remote focus and zoom, P-Iris control, IR corrected<br><b>AXIS P1455-LE 29 mm:</b><br>Varifocal, 10.9-29 mm, F1.7-1.7<br>Horizontal field of view 29°-11°<br>Vertical field of view 17°-6.5°<br>Varifocal, Remote focus and zoom, P-Iris control, IR corrected   |
| Day and night        | Automatically removable infrared-cut filter   |
| Minimum illumination | <b>AXIS P1455-LE 9 mm:</b><br>Color: 0.07 lux, at 50 IRE F1.6<br>B/W: 0.01 lux, at 50 IRE F1.6<br>0 lux with IR illumination on<br><b>AXIS P1455-LE 29 mm:</b><br>Color: 0.07 lux, at 50 IRE F1.7<br>B/W: 0.01 lux, at 50 IRE F1.7<br>0 lux with IR illumination on   |
| Shutter speed        | 1/66500 s to 2 s  |
| System on chip (SoC) |   |
| Model                | ARTPEC-7  |
| Memory               | 1024 MB RAM, 512 MB Flash   |
| Compute capabilities | Machine learning processing unit (MLPU)   |
| Video                |   |
| Video compression    | H.264 (MPEG-4 Part 10/AVC) Baseline, Main and High Profiles<br>H.265 (MPEG-H Part 2/HEVC) Main Profile<br>Motion JPEG   |
| Resolution           | 1920x1080 to 160x90   |
| Frame rate           | With Forensic WDR: Up to 25/30 fps (50/60 Hz) in all resolutions<br>No WDR: Up to 50/60 fps (50/60 Hz) in all resolutions   |
| Video streaming      | Multiple, individually configurable streams in H.264, H.265 and Motion JPEG<br>Axis Zipstream technology in H.264 and H.265<br>Controllable frame rate and bandwidth<br>VBR/ABR/MBR H.264/H.265<br>Video streaming indicator  |
| Multi-view streaming | Up to 8 individually cropped out view areas   |
| Image settings       | Saturation, contrast, brightness, sharpness, Forensic WDR: Up to 120 dB depending on scene, white balance, day/night threshold, exposure mode, exposure zones, defogging, compression, orientation: auto, 0°, 90°, 180°, 270° including Corridor Format, mirroring of images, dynamic text and image overlay, privacy masks, motion-adaptive exposure<br><b>AXIS P1455-LE 9 mm:</b> Barrel distortion correction<br><b>AXIS P1455-LE 29 mm:</b> Electronic image stabilization<br>Scene profiles: forensic, vivid, traffic overview |
| Pan/Tilt/Zoom        | Digital PTZ, digital zoom   |
| Audio                |   |
| Audio streaming      | Audio in, simplex, two-way audio via edge-to-edge technology  |
| Audio encoding       | 24bit LPCM, AAC-LC 8/16/32/48 kHz, G.711 PCM 8 kHz, G.726 ADPCM 8 kHz, Opus 8/16/48 kHz<br>Configurable bit rate  |
| Audio input/output   | External microphone input or line input, digital audio input, network speaker pairing   |
| Network              |   |
| Security             | 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, signed video, Axis Edge Vault, Axis device ID  |
| Supported protocols  | IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPS <sup>a</sup> , HTTP/2, 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, RTSP,  |

RTP, SRTP, TCP, UDP, IGMPv1/v2/v3, RTCP, ICMP, DHCPv4/v6, ARP, SOCKS, SSH, LLDP, CDP, MQTT v3.1.1, Syslog, Link-Local address (ZeroConf)

| System integration                |   |
|-----------------------------------|---|
| Application Programming Interface | Open API for software integration, including VAPIX <sup>®</sup> and AXIS Camera Application Platform; specifications at <a href="https://axis.com">axis.com</a><br>One-Click Cloud Connection<br>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="https://onvif.org">onvif.org</a>                              |
| Onscreen controls                 | Day/night shift<br>Defogging<br>Wide dynamic range<br>IR illumination<br><b>AXIS P1455-LE 29 mm:</b> Electronic image stabilization   |
| Event conditions                  | Analytics<br>Detectors: live stream accessed, video motion detection, audio detection, day/night mode, shock detection, tampering<br>Hardware: network, temperature<br>Input Signal: digital input port, manual trigger, virtual inputs<br>Storage: disruption, recording<br>System: system ready<br>Time: recurrence, use schedule<br><b>AXIS P1455-LE 29 mm:</b> Supervised input changed state<br>MQTT subscribe |
| Event actions                     | Record video: SD card and network share<br>Upload of images or video clips: FTP, SFTP, HTTP, HTTPS, network share and email<br>Pre- and post-alarm video or image buffering for recording or upload<br>Notification: email, HTTP, HTTPS, TCP and SNMP trap<br>PTZ: PTZ preset, start/stop guard tour<br>Overlay text, external output activation, day/night mode<br>MQTT publish                                    |
| Data streaming                    | Event data  |
| Built-in installation aids        | Pixel counter, remote zoom (3x optical), remote focus, auto rotation  |
| Analytics                         |   |
| AXIS Object Analytics             | Object classes: humans, vehicles<br>Trigger conditions: line crossing, object in area<br>Up to 10 scenarios<br>Metadata visualized with color-coded bounding boxes<br>Polygon include/exclude areas<br>Perspective configuration<br>ONVIF Motion Alarm event  |
| Applications                      | <b>Included</b><br>AXIS Object Analytics<br>AXIS Video Motion Detection, AXIS Motion Guard, AXIS Fence Guard, AXIS Loitering, active tampering, shock detection<br><b>Supported</b><br>AXIS Perimeter Defender<br>Support for AXIS Camera Application Platform enabling installation of third-party applications, see <a href="https://axis.com/acap">axis.com/acap</a>   |
| General                           |   |
| Casing                            | IP66/IP67-, NEMA 4X-, and IK10-rated casing<br>Polycarbonate blend and aluminium<br>Color: white NCS S 1002-B   |
| Sustainability                    | <b>AXIS P1455-LE 9 mm:</b><br>PVC free<br><b>AXIS P1455-LE 29 mm:</b><br>PVC free, BFR/CFR free   |
| Power                             | <b>AXIS P1455-LE 9 mm:</b><br>Power over Ethernet IEEE 802.3af/802.3at Type 1 Class 3<br>Typical: 7.7 W, max 12.95 W<br><b>AXIS P1455-LE 29 mm:</b><br>Power over Ethernet IEEE 802.3af/802.3at Type 1 Class 3<br>Typical: 8.5 W, max 12.95 W<br>12-28 V DC, typical 7.8 W, max 12.95 W   |
| Connectors                        | <b>AXIS P1455-LE 9 mm:</b><br>Shielded RJ45 10BASE-T/100BASE-TX/1000BASE-T<br>3.5 mm mic/line in  |

|                             |  |  |
|-----------------------------|--|--|
|                             | Terminal block for 1 alarm input and 1 output (12 V DC output, max. load 25 mA)<br><b>AXIS P1455-LE 29 mm:</b><br>Shielded RJ45 10BASE-T/100BASE-TX/1000BASE-T<br>3.5 mm mic/line in<br>Terminal block for 1 supervised alarm input and 1 output (12 V DC output, max. load 25 mA)<br>DC input                 | 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)<br><b>Network</b><br>NIST SP500-267  |
|                             |  | <b>Weight</b><br>With weather shield:<br><b>AXIS P1455-LE 9 mm:</b> 1 kg (2.2 lb)<br><b>AXIS P1455-LE 29 mm:</b> 1.2 kg (2.65 lb)  |
| <b>IR illumination</b>      | OptimizedIR with power-efficient, long-life 850 nm IR LEDs<br><b>AXIS P1455-LE 9 mm:</b><br>Range of reach 40 m (131 ft) or more depending on the scene<br><b>AXIS P1455-LE 29 mm:</b><br>Range of reach 80 m (262 ft) or more depending on the scene  | <b>Dimensions</b><br><b>AXIS P1455-LE 9 mm:</b> Ø132 x 260 mm (Ø5.2 x 10.2 in)<br><b>AXIS P1455-LE 29 mm:</b> Ø132 x 264 mm (Ø5.2 x 10.4 in)   |
| <b>Storage</b>              | Support for microSD/microSDHC/microSDXC card<br>Support for SD card encryption (AES-XTS-Plain64 256bit)<br>Recording to network-attached storage (NAS)<br>For SD card and NAS recommendations see <a href="http://axis.com">axis.com</a>   | <b>Included accessories</b><br>Installation guide, Windows® decoder 1-user license, drill hole template, connector kit, mounting bracket, Torx® L-keys<br>AXIS Weather Shield L  |
| <b>Operating conditions</b> | -40 °C to 60 °C (-40 °F to 140 °F)<br>Maximum temperature according to NEMA TS2 (2.2.7):<br>74 °C (165 °F)<br>Humidity 10–100% RH (condensing)   | <b>Optional accessories</b><br>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<br>For more accessories, see <a href="http://axis.com">axis.com</a> |
| <b>Storage conditions</b>   | -40 °C to 65 °C (-40 °F to 149 °F)<br>Humidity 5–95% RH (non-condensing)   | <b>Video management software</b><br>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>Approvals</b>            | <b>EMC</b><br>EN 55032 Class A, EN 50121-4, IEC 62236-4, EN 55035, 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), VCCI Class A, RCM AS/NZS CISPR 32 Class A<br><b>Safety</b><br>IEC/EN/UL 62368-1, IEC/EN/UL 60950-22, IS 13252, IEC 62471<br><b>Environment</b> | <b>Languages</b><br>English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Traditional Chinese  |
|                             |  | <b>Warranty</b><br>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 ([eyay@cryptsoft.com](mailto:eyay@cryptsoft.com)).

Environmental responsibility:

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