

# AXIS P1445-LE-3 License Plate Verifier Kit

Easy, cost-effective kit for vehicle access

AXIS P1445-LE-3 License Plate Verifier Kit consists of AXIS P1445-LE Network Camera and pre-installed AXIS License Plate Verifier analytics, making it an easy, cost-effective kit for automated vehicle entry and exit management. With edge storage and I/O ports, AXIS P1445-LE-3 uses allow and block lists to accurately verify access to controlled areas such as parking lots. Furthermore, built-in support for AXIS A1001 Network Door Controller makes it possible to expand the system and an open API allows for integration with third-party software. AXIS P1445-LE-3 features OptimizedIR, impact resistance and a wide temperature range for installation in any environment.

- > [Cost-effective standalone system](#)
- > [Single lane detection up to 30 km/h \(19 mph\)](#)
- > [Allow and block lists for license plate verification](#)
- > [Day and night with OptimizedIR](#)
- > [Built-in support for Axis door controller and Axis I/O relay modules](#)



# AXIS License Plate Verifier

## Application

<b>Compute platform</b>	Edge
<b>Supported devices</b>	For a complete list of recommended and supported products, go to the product page at <a href="http://axis.com">axis.com</a>
<b>Licenses</b>	AXIS License Plate Verifier license included.
<b>Configuration</b>	Web configuration included
<b>Settings</b>	Define region of interest in scene. Allow and block list logic. Barrier mode: Open to all, open to allowlisted, open to all but blocklisted. Minimum width: 130 pixels for one-row license plates; 70 pixels for two-row license plates. FIFO event log entries including thumbnail image of license plate. Up to 1000 entries on camera storage. Up to 100 000 entries on AXIS Surveillance Cards. Configurable retention time of stored events
<b>Detection range</b>	2.0 to 7.0 m (6.6 to 23 ft)
<b>Vehicle speed</b>	Up to 30 km/h (19 mph)
<b>Detection time</b>	Less than 1 second.

## Scenarios

<b>Typical applications</b>	<b>Vehicle entry and exit</b> Entrances and exits of parking areas with known vehicles. The application verifies detected license plates against an allowlist or a blocklist for granting or denying access to an area. Maximum 10,000 license plates in each list. <b>Vehicle access control</b> For a scenario where greater functionality and flexibility are required, use AXIS A1001 Network Door Controller. AXIS A1001 with AXIS Entry Manager software supports access rules including schedules, more detailed event log, and up to 400 credentials (license plates and access cards). Multiple partner software that support a greater number of credentials and features are available
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## System integration

<b>Application Programming Interface</b>	Open API for software integration; specifications available upon request.
<b>Event streaming</b>	Integrates with camera event management system to enable event streaming to management software and camera actions such as I/O control, notification, and edge storage.
<b>Supported devices</b>	Direct integration with AXIS A1001 Network Door Controller and AXIS A91 Network I/O Relay Modules.

## General

<b>Languages</b>	English
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# AXIS P1445-LE

## Camera

<b>Image sensor</b>	1/2.8" progressive scan RGB CMOS
<b>Lens</b>	2.8-8.5 mm, F1.2 Horizontal field of view: 110°-38° Vertical field of view: 62°-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>HDTV 1080p 25/30 fps with Forensic WDR and Lightfinder:</b> Color: 0.07 lux, at 50 IRE F1.2; B/W: 0.01 lux, at 50 IRE F1.2 <b>HDTV 1080p 50/60 fps with Lightfinder:</b> Color: 0.14 lux, at 50 IRE F1.2; B/W: 0.03 lux, at 50 IRE F1.2 0 lux with IR illumination on

## Video

<b>Video compression</b>	H.264 (MPEG-4 Part 10/AVC) Baseline, Main and High Profiles Motion JPEG
<b>Resolution</b>	1920x1080 to 160x90
<b>Frame rate</b>	HDTV 1080p (1920x1080) with WDR: Up to 25/30 FPS (50/60 HZ) in all resolutions

HDTV 1080p (1920x1080) without WDR: Up to 50/60 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>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	3.5 mm mic/line in I/O: 4-pin terminal block for 1 alarm input and 1 output
<b>Network</b>		<b>IR illumination</b> OptimizedIR with power-efficient, long-life 850 nm IR LEDs
<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>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>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, Syslog	<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>System integration</b>		<b>Storage conditions</b> -40 °C to 65 °C (-40 °F to 149 °F) Humidity 5–95% RH (non-condensing)
<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>Approvals</b> EMC 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 Safety IEC/EN/UL 62368-1, IEC/EN/UL 60950-22, IEC 62471 Environment 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) Network NIST SP500-267
<b>Event conditions</b>	Analytics Detectors: live stream accessed, video motion detection, audio detection, day/night mode, shock detection, tampering Hardware: network, temperature Input Signal: digital input port, manual trigger, virtual inputs Storage: disruption, recording System: system ready Time: recurrence, use schedule	<b>Weight</b> With weather shield: 1 kg (2.2 lb)
<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>Dimensions</b> Ø132 x 260 mm (Ø5 3/16 x 10 1/4 in)
<b>Data streaming</b>	Event data	<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>Built-in installation aids</b>	Pixel counter, remote zoom (3x optical), remote focus, auto rotation	<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>Analytics</b>		<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>Applications</b>	Included AXIS License Plate Verifier	<b>Languages</b> English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Traditional Chinese
<b>General</b>		<b>Warranty</b> 5-year warranty, see <a href="http://axis.com/warranty">axis.com/warranty</a>
<b>Casing</b>	IP66/IP67-, NEMA 4X-, and IK10-rated casing Polycarbonate blend and aluminium Color: white NCS S 1002-B	a. <i>This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (openssl.org), and cryptographic software written by Eric Young (eay@cryptsoft.com).</i>
<b>Sustainability</b>	PVC free	Environmental responsibility: <a href="http://axis.com/environmental-responsibility">axis.com/environmental-responsibility</a>
<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: 5.6 W, max 12.95 W	
<b>Connectors</b>	Shielded RJ45 10BASE-T/100BASE-TX PoE	