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 white and black 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)
> White and black 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**
- Compute platform: Edge

**Supported devices**
For a complete list of recommended and supported products, go to the product page at axis.com

**Licenses**
AXIS License Plate Verifier license included.

**Configuration**
Web configuration included

**Settings**
Define region of interest in scene.
White and black list logic.
Barrier mode: Open to all, open to whitelisted, open to all but blacklisted.
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

**Detection range**
2.0 to 7.0 m (6.6 to 23 ft)

**Vehicle speed**
Up to 30 km/h (19 mph)

**Detection time**
Less than 1 second.

**Scenarios**
- **Typical applications**
  Vehicle entry and exit
  Entrances and exits of parking areas with known vehicles. The application verifies detected license plates against a whitelist or a blacklist for granting or denying access to an area. Maximum 10,000 license plates in each list.
  Vehicle access control
  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

**System integration**
- **Application Programming Interface**
  Open API for software integration; specifications available upon request.

- **Event streaming**
  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.

- **Supported devices**
  Direct integration with AXIS A1001 Network Door Controller and AXIS A91 Network I/O Relay Modules.

**General**
- **Languages**
  English

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**AXIS P1445-LE**

**Camera**
- **Image sensor**
  1/2.8" progressive scan RGB CMOS

- **Lens**
  Varifocal, Remote focus and zoom, P-Iris control, IR corrected

- **Day and night**
  Automatically removable infrared-cut filter

**Video**
- **Video compression**
  H.264 (MPEG-4 Part 10/AVC) Baseline, Main and High Profiles Motion JPEG

- **Resolution**
  1920x1080 to 160x90

- **Frame rate**
  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

- **Video streaming**
  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

- **Image settings**
  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

**Audio**
- **Audio streaming**
  Audio in, simplex

- **Audio compression**
  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

- **Audio input/output**
  External microphone input or line input
  Automatic gain control

**Network**
- **Security**
  Password protection, IP address filtering, HTTPS® encryption, IEEE 802.1X (EAP-TLS® network access control, digest authentication, user access log, centralized certificate management, brute force delay protection, signed firmware

**Supported protocols**
- IPv4, IPv6 USGv6, HTTP, HTTPS®, SSL/TLS®, QoS Layer 3 DiffServ
- FTP, SFTP, CIF5/SMB, SMTP, Bonjour, UPnP®, SNMP v1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, RTSP, RTP, SRTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP, ARP, SOCKS, SSH, LLDP, MGTT
### System integration

**Application Programming Interface**

Open API for software integration, including VAPIX® and AXIS Camera Application Platform; specifications at axis.com

**ONVIF®**

Profile G, ONVIF® Profile S and ONVIF® Profile T, specification at onvif.org

**Hardware**

PTZ, with PTZ and video camera support

**Software**

Supports various software platforms; see axis.com

### Event conditions

**Analytics**

Detectors: live stream accessed, video motion detection, audio detection, day/night mode, shock detection, tampering

Input Signal: digital input port, manual trigger, virtual inputs

Storage: disruption, recording

**Time**

System: system ready

Time: recurrence, use schedule

**Event actions**

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

**Data streaming**

Event data

**Built-in installation aids**

Pixel counter, remote zoom (3x optical), remote focus, auto rotation

### Analytics

**Applications**

Included

AXIS License Plate Verifier

### General

**Casing**

IP66/IP67-, NEMA 4X-, and IK10-rated casing

Polycarbonate blend and aluminium

Color: white NCS S 1002-B

**Sustainability**

PVC free

**Power**

Power over Ethernet IEEE 802.3af/802.3at Type 1 Class 3

Typical: 5.6 W, max 12.96 W

**Connectors**

Shielded RJ45 10BASE-T/100BASE-TX PoE

3.5 mm mic/jack in

I/O: 4-pin terminal block for 1 alarm input and 1 output

**IR illumination**

OptimizedIR with power-efficient, long-life 850 nm IR LEDs

**Storage**

Support for microSD/microSDHC/microSDXC card and encryption

Recording to network-attached storage (NAS)

For SD card and NAS recommendations see axis.com

### Operating conditions

**Temperature**

-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)

**Storage conditions**

-40 °C to 65 °C (-40 °F to 149 °F)

Humidity 5–95% RH (non-condensing)

### Approvals

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, KN53

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 60608-2-78, 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

### Weight

With weather shield:

1 kg (2.2 lb)

### Dimensions

Ø132 x 260 mm (Ø5.3/16 x 10 1/4 in)

**Included accessories**

Installation guide, Windows® decoder 1-user license, drill hole template, connector kit, mounting bracket

**Optional accessories**

AXIS T94F01M J-Box/Gang Box Plate, AXIS T91A47 Pole Mount, AXIS T94P01B Corner Bracket, AXIS T94P01P Conduit Back Box

**Video management software**

AXIS Companion, AXIS Camera Station, video management software from Axis’ Application Development Partners available at axis.com

**Languages**

English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Traditional Chinese

**Warranty**

Axis 3-year warranty and AXIS Extended Warranty option, see axis.com/warranty

a. 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).

Environmental responsibility:

axis.com/environmental-responsibility