

AXIS P3245-LVE-3 License Plate Verifier Kit

Easy, cost-effective vehicle access control

AXIS P3245-LVE-3 includes an HDTV 1080p fixed dome camera and comes with AXIS License Plate Verifier preinstalled. This easy-to-install kit verifies license plates against a list of authorized or unauthorized number plates stored in the camera. Processing and storage take place in the camera, so there's no need for expensive servers, and bandwidth requirements are reduced. This vandal-resistant camera includes shock detection, so it's safe to use even when installed at lower, more accessible heights. And Axis OptimizedIR ensures the ideal image settings for license plate reading 24/7. Furthermore, it offers integration with video management systems (VMS) for complex requirements.

- > [All-in-one vehicle access control](#)
- > [Support for allow- and blacklist](#)
- > [Vandal- and weather-resistant](#)
- > [Built-in support for Axis Network Door Controllers](#)
- > [OptimizedIR for recognition in darkness](#)



AXIS License Plate Verifier

Application

Compute platform

Edge

Licenses

AXIS License Plate Verifier license included.

Configuration

Web configuration included

Settings

Define area of interest in scene.

Allow-, block- and custom list logic. Each list can contain 10,000 plates with a total of 30,000.

Missing plate detection.

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

Detection range

2.0 to 7.0 m (6.6 to 23 ft)

Vehicle speed

Reads license plates up to 200 km/h (124 mph) depending on the camera model.

Object attributes

Vehicle data: license plate recognition, license plate type (GCC), make, model, color, country, region.

Supports 120 makes and 5,000 models with more models added over time.

Object classes

Vehicle type: bike, car, SUV, van, pick-up, truck, bus

System integration

Application Programming Interface

Open API for software integration.

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 network door controllers and relay modules.

Scenarios

Typical applications

Efficient vehicle access control

Efficiently automates secure entry and exit procedures for authorized vehicles at depots, service centers, lots, priority lanes, parking facilities, and various other locations.

Validates license plates against allowlists, blocklists and custom lists for efficient, seamless access control.

Adding more functionality

Integrate with Axis network door controllers, and in conjunction with AXIS Camera Station Secure Entry, support more advanced access rules, schedules, and detailed event logs.

Add network intercoms for visitors, and readers as a fall back when vehicle credentials can't be read.

Compatible with various partner software, offering diverse credential options and tailored features.

License plate recognition

Install in city centers and enclosed areas such as campuses, ports or airports to enable LPR-forensic search and LPR-triggered events in a VMS such as AXIS Camera Station.

General

Supported countries

For a complete list of supported countries, go to the product page at axis.com

Languages

English

AXIS P3245-LVE-3 License Plate Verifier Kit

Camera

Image sensor

1/2.8" progressive scan RGB CMOS

Lens

Varifocal, 3.4–8.9 mm, F1.8
Horizontal field of view: 100°–36°
Vertical field of view: 53°–20°
Remote zoom and focus, P-Iris control, IR corrected

Day and night

Automatically removable infrared-cut filter

Minimum illumination

With Forensic WDR and Lightfinder 2.0:
Color: 0.1 lux at 50 IRE, F1.8
Color: 0.1 lux at 50 IRE, F1.8/F1.6
B/W: 0.02 lux at 50 IRE, F1.8/F1.6; 0 lux with IR illumination on

Shutter speed

1/66500 s to 2 s

Camera adjustment

Pan $\pm 180^\circ$, tilt $\pm 75^\circ$, rotation $\pm 175^\circ$

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
H.265 (MPEG-H Part 2/HEVC) Main Profile
Motion JPEG

Resolution

1920x1080 to 160x90

Frame rate

With WDR: 25/30 fps with power line frequency 50/60 Hz
Without WDR: 50/60 fps with power line frequency 50/60 Hz

Video streaming

Multiple, individually configurable streams in H.264, H.265, and Motion JPEG
Axis Zipstream technology for H.264 and H.265
Controllable frame rate and bandwidth
VBR/ABR/MBR H.264/H.265
Low latency mode

Multi-view streaming

Up to 2 individually cropped out view areas in full frame rate

Image settings

Compression, color saturation, brightness, sharpness, contrast, local contrast, white balance, day/night threshold, tone mapping, exposure control (including automatic gain control), exposure zones, defogging, Forensic WDR: up to 120 dB depending on scene, barrel distortion correction, fine tuning of low-light behavior, dynamic text and image overlay, privacy masks, mirroring, rotation: 0°, 90°, 180°, 270°

Pan/Tilt/Zoom

Digital PTZ, preset positions

Audio

Streaming

Full duplex

Encoding

24bit LPCM, AAC-LC 8/16/32/44.1/48 kHz, G.711 PCM 8 kHz, G.726 ADPCM 8 kHz, Opus 8/16/48 kHz
Configurable bit rate

Input/output

External microphone input, line input, digital input with ring power, line output, automatic gain control
Two-way audio connectivity via optional AXIS T61
Audio and I/O Interfaces with portcast technology

Network

Security

IP address filtering, HTTPS¹ encryption, IEEE 802.1X (EAP-TLS)¹ network access control, user access log, centralized certificate management

Network protocols

IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTP/2, HTTPS¹, TLS¹, QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, Bonjour, UPnP[®], SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, NTS, RTSP, RTP, SRTP/RTSPS, TCP, UDP, IGMPv1/v2/v3, RTCP, ICMP, DHCPv4/v6, ARP, SSH, SIP, LLDP, CDP, MQTT v3.1.1, Secure syslog (RFC 3164/5424, UDP/TCP/TLS), Link-Local address (ZeroConf)

System integration

Application Programming Interface

Open API for software integration, including VAPIX[®] and AXIS Camera Application Platform; specifications at axis.com/developer-community.

One-click cloud connection

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

Support for Session Initiation Protocol (SIP) for integration with Voice over IP (VoIP) systems, peer to peer or integrated with SIP/PBX

Video management systems

Compatible with AXIS Camera Station Pro, AXIS Camera Station 5, and video management software from Axis' partners available at axis.com/vms.

Event conditions

Analytics, external input, supervision of input, edge storage events, virtual inputs through API, MQTT subscribe

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
MQTT publish

Overlay text, external output activation, play audio clip, make call

Data streaming

Event data

Built-in installation aids

Pixel counter, remote focus, remote zoom

OptimizedIR with adjustable IR illumination intensity

Analytics

Applications

Included

AXIS License Plate Verifier, AXIS Video Motion

Detection, active tampering alarm, audio detection

Support for AXIS Camera Application Platform enabling installation of third-party applications, see axis.com/acap.

Approvals

EMC

CISPR 24, CISPR 35, CISPR 32 Class A,

EN 55032 Class A, EN 50121-4, EN 55024,

EN 61000-6-1, EN 61000-6-2

Australia/New Zealand: RCM AS/NZS CISPR 32 Class A

Canada: ICES-3(A)/NMB-3(A)

Japan: VCCI Class A

Korea: KC KN32 Class A, KC KN35

USA: FCC Part 15 Subpart B Class A

Railway: IEC 62236-4

Safety

IEC/EN/UL 62368-1, IEC/EN/UL 60950-22, IS 13252,

IEC/EN 62471

Environment

IEC 60068-2-1, IEC 60068-2-14, IEC 60068-2-2,

IEC 60068-2-27, IEC 60068-2-6, IEC 60068-2-78,

IEC/EN 60529 IP66, IEC/EN 62262 IK10, NEMA 250

Type 4X, NEMA TS 2 (2.2.7-2.2.9)

Network

NIST SP500-267

Cybersecurity

Edge security

Software: Signed OS, brute force delay protection, digest authentication and OAuth 2.0 RFC6749 OpenID Authorization Code Flow for centralized ADFS account management, password protection, AES-XTS-Plain64 256bit SD card encryption

Hardware: Secure boot

1. This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (openssl.org), and cryptographic software written by Eric Young (eyay@cryptosoft.com).

Network security

IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2)¹,
IEEE 802.1AE (MACsec PSK/EAP-TLS), HTTPS/HSTS¹, TLS
v1.2/v1.3¹, Network Time Security (NTS), X.509
Certificate PKI, host-based firewall

Documentation

AXIS OS Hardening Guide

Axis Vulnerability Management Policy

Axis Security Development Model

AXIS OS Software Bill of Material (SBOM)

To download documents, go to axis.com/support/cybersecurity/resources

To read more about Axis cybersecurity support, go to axis.com/cybersecurity

General

Casing

IP66- and NEMA 4X-rated, IK10 impact-resistant polycarbonate casing with hard-coated dome and dehumidifying membrane

Encapsulated electronics and captive screws

Color: white NCS S 1002-B

For repainting instructions and impact on warranty, contact your Axis partner.

Mounting

Mounting bracket with holes for junction box (double-gang, single-gang, and 4" octagon) and for wall or ceiling mount

1/4"-20 UNC tripod screw thread

Power

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

Typical 6.4 W, max 11.3 W

Connectors

RJ45 10BASE-T/100BASE-TX PoE

I/O: 4-pin 2.5 mm (0.098 in) terminal block for 1 supervised digital input and 1 digital output (12 V DC output, max. load 25 mA)

Audio: 4-pin 2.5 mm (0.098 in) terminal block for audio in and out

Audio and I/O connectivity via AXIS T61 Audio and I/O Interfaces with portcast technology

IR illumination

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

Range of reach 15 m (50 ft) or more depending on the scene

Storage

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 axis.com

Operating conditions

0 °C to 50 °C (32 °F to 122 °F)

Maximum temperature according to NEMA TS2 (2.2.7):
74 °C (165 °F)

-40 °C to 50 °C (-40 °F to 122 °F)

Maximum temperature (intermittent): 55 °C (131 °F)

Start-up temperature: -30 °C to 50 °C (-22 °F to 122 °F)

Humidity 10–85% RH (non-condensing)

Humidity 10–100% RH (condensing)

Storage conditions

-40 °C to 65 °C (-40 °F to 149 °F)

Humidity 5–95% RH (non-condensing)

Dimensions

Without weathershield:

Height: 104 mm (4.09 in)

ø 149 mm (5.87 in)

Weight

With weathershield: 800 g (1.8 lb)

Included accessories

Installation guide, Windows® decoder 1-user license, drill template, Resistorx® T20 L-key, terminal block connectors, cable gaskets, connector guard, weathershield

Optional accessories

AXIS T94M02L Recessed Mount, AXIS T94T01D Pendant Kit, AXIS T94M01D Pendant Kit, AXIS Dome Intrusion Switch C, AXIS TP3804-E Metal Casing White, AXIS T6101 Audio and I/O Interface, AXIS T6112 Audio and I/O Interface, AXIS ACI Conduit Adapters, Axis mounts and microphones, smoked dome, black casing

For more accessories, see axis.com.

Languages

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

English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Traditional Chinese, Dutch, Czech, Swedish, Finnish, Turkish, Thai, Vietnamese

Warranty

5-year warranty, see axis.com/warranty.

Sustainability

Substance control

PVC free

RoHS in accordance with EU RoHS Directive 2011/65/EU/ and EN 63000:2018

REACH in accordance with (EC) No 1907/2006. For SCIP UUID, see echa.europa.eu

Environmental responsibility

axis.com/environmental-responsibility

Axis Communications is a signatory of the UN Global Compact, read more at unglobalcompact.org