

AXIS P1455-LE-3 License Plate Verifier Kit

Cost-effective kit for free-flow traffic

AXIS P1455-LE-3 includes an HDTV 1080p fixed bullet camera with AXIS License Plate Verifier preinstalled. Featuring free-flow mode, it's ideal for use in traffic at up to 105 km/h (65 mph), on access roads, in city centers, gated communities, and campuses. The compact and robust IK10-rated camera includes shock detection for installation in all environments. Featuring a 29 mm telephoto lens, this cost-effective solution can read license plates from 7 to 20 meters (20-65 feet). It includes Axis image enhancement technologies as well as Optimized IR – to ensure sharp images for license plate reading 24/7. Furthermore, it offers tight integration with AXIS Camera Station.

- > **For use at up to 105 km/h (65 mph)**
- > **Read license plates from 7-20 m (20-65 ft)**
- > **Proven for tough weather conditions**
- > **OptimizedIR for recognition in darkness**
- > **Integration with AXIS Camera Station**



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

7.0 to 20 m (20 to 65 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

Free-flow traffic monitoring

Ideal for city centers, larger access roads, toll plazas, and areas like campuses, harbors or airports.

Enables event triggers in a VMS, such as AXIS Camera Station to facilitate LPR-based search.

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.

To add more features you can add network intercoms for visitors, and readers as a fall back when vehicle credentials can't be read.

Compatible with software from 2N IP Device, Genetec and Milestone, offering diverse credential options and tailored features.

General

Supported countries

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

Languages

English

AXIS P1455-LE-3 License Plate Verifier Kit

Camera

Image sensor

1/2.8" progressive scan RGB CMOS

Lens

Varifocal, 10.9–29 mm, F1.7–1.7
Horizontal field of view 29°–11°
Vertical field of view 17°–6.5°
Varifocal, Remote focus and zoom, P-Iris control, IR corrected

Day and night

Automatically removable infrared-cut filter

Minimum illumination

Color: 0.07 lux, at 50 IRE F1.7
B/W: 0.01 lux, at 50 IRE F1.7
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

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 Forensic WDR: Up to 25/30 fps (50/60 Hz) in all resolutions

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
Axis Zipstream technology in H.264 and H.265
Controllable frame rate and bandwidth
VBR/ABR/MBR H.264/H.265
Low latency mode
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, electronic image stabilization

Pan/Tilt/Zoom

Digital PTZ, digital zoom

Audio

Streaming

Audio in, simplex, two-way audio via edge-to-edge technology

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
Configurable bit rate

Input/output

External microphone input or line input, digital audio input, network speaker pairing

Network

Network protocols

IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPS¹, HTTP/2, TLS¹, QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (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, LLDP, CDP, MQTT v3.1.1, Secure syslog (RFC 3164/5424, UDP/TCP/TLS), Link-Local address (ZeroConf)

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 (eay@cryptsoft.com).

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

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.

Onscreen controls

Day/night shift

Defogging

Wide dynamic range

IR illumination

Electronic image stabilization

Video streaming indicator

Event conditions

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

Supervised input changed state

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

PTZ: PTZ preset, start/stop guard tour

Overlay text, external output activation, day/night mode

MQTT publish

Built-in installation aids

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

Analytics

Compute capabilities

Machine learning processing unit (MLPU)

Applications

Included

AXIS License Plate Verifier, Scene metadata

AXIS Video Motion Detection, active tampering, shock detection

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

AXIS Scene Metadata

Object classes: humans, faces, vehicles (types: cars, buses, trucks, bikes), license plates

Object attributes: confidence, position

Approvals

EMC

EN 55032 Class A, EN 50121-4, EN 55035,

EN 61000-3-3, EN 61000-6-1, EN 61000-6-2

USA: FCC Part 15 Subpart B Class A

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

Japan: VCCI Class A

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

Railway: IEC 62236-4

Safety

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

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

Cybersecurity

ETSI EN 303 645, BSI IT Security Label

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

Network security

IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2)²,
IEEE 802.1AE (MACsec PSK/EAP-TLS), HTTPS/HSTS², TLS
v1.2/v1.3², 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/IP67-, NEMA 4X-, and IK10-rated casing
Polycarbonate blend and aluminium
Color: white NCS S 1002-B

Sustainability

PVC free, BFR/CFR free

Power

Power over Ethernet IEEE 802.3af/802.3at Type 4
Class 3
Typical: 8.5 W, max 12.95 W
12–28 V DC, typical 7.8 W, max 12.95 W

Connectors

Shielded RJ45 10BASE-T/100BASE-TX/1000BASE-T
3.5 mm mic/line in
Terminal block for 1 supervised alarm input and 1
output (12 V DC output, max. load 25 mA)
DC input

IR illumination

Optimized IR with power-efficient, long-life 850 nm IR
LEDs
Range of reach 45 m (150 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

-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)

Weight

With weather shield:

1.2 kg (2.65 lb)

Dimensions

Ø132 x 264 mm (Ø5.2 x 10.4 in)

Included accessories

Installation guide, Windows® decoder 1-user license,
drill hole template, connector kit, mounting bracket,
Torx® L-keys
AXIS Weather Shield L

Optional accessories

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 axis.com

Languages

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

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