

AXIS P1465-LE-3 License Plate Verifier Kit

Cost-effective kit for free-flow traffic

AXIS P1465-LE-3 includes an HDTV 1080p 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 OptimizedIR – to ensure sharp images for license plate reading 24/7. Furthermore, it offers tight integration with AXIS Camera Station.

- > AXIS License Plate Verifier preinstalled
- > Read license plates from 7-20 m / 20-65 ft
- > Proven for tough weather conditions
- > Purpose-tuned for license plate recognition
- > 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- and blocklist 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
Detection range	7.0 to 20 m (20 to 65 ft)
Vehicle speed	Up to 105 km/h (65 mph)
Detection time	Less than 1 second.
Scenarios	
Typical applications	Free-flow traffic monitoring Reads license plates at speeds up to 105 km/h (65 mph). 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. Efficient vehicle access control Efficiently automates the 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 or blocklists for efficient, seamless access control. Supports up to 10,000 license plates in each list. Adding more functionality Integrate with Axis network door controllers for increased options and functionality. Axis network door controllers, in conjunction with AXIS Camera Station Secure Entry, support more advanced access rules, schedules, and detailed event logs. Compatible with various partner software, offering diverse credential options and tailored features to meet specific needs.
System integra	
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 Axis A91 Network I/O Relay Modules.
General	
Supported countries	For a complete list of supported countries, go to the product page at axis.com
Languages	English

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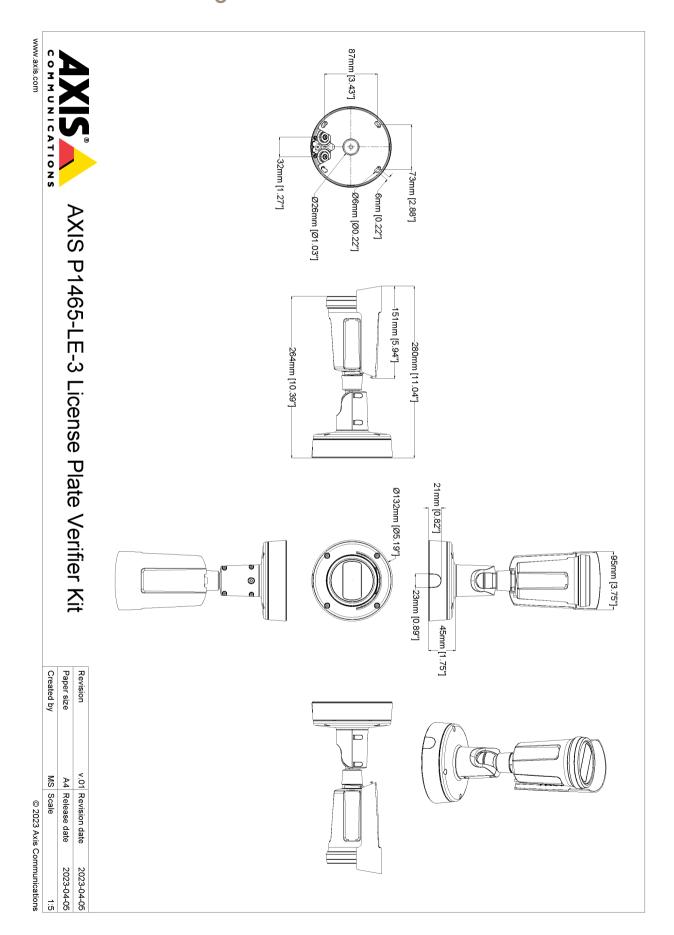
Camera		Network		
Image sensor	1/2.8" progressive scan RGB CMOS Pixel size 2.9 μm	Network protocols	IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPS ^b , HTTP/2, TLS ^b , QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour)	
Lens	Varifocal, remote focus and zoom, P-Iris control, IR corrected Varifocal, 10.9-29 mm, F1.7-1.7 Horizontal field of view 29°-11°		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)	
	Vertical field of view 16°-6° Minimum focus distance: 2.5 m (8.2 ft)	System integration		
Day and night	Automatic IR-cut filter Hybrid IR filter	Application Programming Interface	Open API for software integration, including VAPIX®, metadata, and AXIS Camera Application Platform (ACAP); specifications at axis.com/developer-community. ACAP includes Native SDK and Computer Vision SDK. One-click cloud connection ONVIF® Profile G, ONVIF® Profile M, ONVIF® Profile S and	
Minimum illumination	0 lux with IR illumination on Color: 0.07 lux, at 50 IRE F1.7 B/W: 0.01 lux, at 50 IRE F1.7			
Shutter speed	ter speed With Forensic WDR: 1/37000 s to 2 s No WDR: 1/71500 s to 2 s		ONVIF® Profile T, specification at <i>onvif.org</i> Compatible with AXIS Companion, AXIS Camera Station, video	
System on chip		management	management software from Axis' Application Development	
Model	ARTPEC-8	systems	Partners available at axis.com/vms	
Memory	1024 MB RAM, 8192 MB Flash	Onscreen controls	Autofocus Day/night shift	
Compute capabilities Video	Deep learning processing unit (DLPU)	Controls	Defogging Video streaming indicator Wide dynamic range IR illumination Privacy masks Media clip Electronic image stabilization	
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	16:9: 1920x1080 to 160x90 16:10: 1280x800 to 160x100 4:3: 1280x960 to 160x120	Edge-to-edge	Radar pairing Speaker pairing	
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	Up to 20 unique and configurable video streams ^a 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		operating temperature, IP address removed, new IP address, network lost, system ready, ring power overcurrent protection, live stream active Digital audio input status Edge storage: recording ongoing, storage disruption, storage health issues detected I/O: digital input, manual trigger, virtual input MQTT: subscribe Scheduled and recurring: schedule Video: average bitrate degradation, day-night mode, tampering Audio clips: play, stop Day-night mode	
Signal-to-noise ratio	>55 dB			
WDR	Forensic WDR: Up to 120 dB depending on scene			
Multi-view streaming	Up to 8 individually cropped out view areas	Event actions		
Noise reduction	Spatial filter (2D noise reduction) Temporal filter (3D noise reduction)		I/O: toggle I/O once, toggle I/O while the rule is active Illumination: use lights, use lights while the rule is active MQTT: publish	
Image settings	Saturation, contrast, brightness, sharpness, white balance, day/night threshold, exposure mode, exposure zones, defogging, compression, orientation: auto, 0°, 180° including, mirroring of images, dynamic text and image overlay, polygon privacy masks Scene profiles: forensic, vivid, traffic overview, license plate Electronic image stabilization Axis Zipstream, Forensic WDR, Lightfinder 2.0, OptimizedIR		Notification: HTTP, HTTPS, TCP and email Overlay text Recordings: SD card and network share SNMP traps: send, send while the rule is active Upload of images or video clips: FTP, SFTP, HTTP, HTTPS, netwo share and email WDR mode	
Pan/Tilt/Zoom	Digital PTZ, digital zoom	Built-in	Pixel counter, remote zoom (3x optical), remote focus, auto	
Audio	bigital 112, digital 20011	installation aids	rotation	
Audio features	AGC automatic gain control	Analytics		
	Network speaker pairing	Applications	Included	
Audio streaming	Configurable duplex: One-way (simplex, half duplex) Two-way (half duplex, full duplex)	AXIS License Plate Verifier AXIS Live Privacy Shield ^c , AXIS Video Motion Detection, activ tampering, shock detection Supported		
Audio input	10-band graphic equalizer Input for external unbalanced microphone, optional 5 V microphone power Digital input, optional 12 V ring power Unbalanced line input	Approvals	AXIS Perimeter Defender, AXIS Speed Monitor ^d Support for AXIS Camera Application Platform enabling installation of third-party applications, see axis.com/acap	
Audio output	Output via network speaker pairing	Product markings	CSA, UL/cUL, BIS, UKCA, CE, KC, EAC	
Audio output Audio encoding		Supply chain	TAA compliant	
Addio Chebung	Audio 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		CISPR 35, CISPR 32 Class A, EN 55035, EN 55032 Class A, EN 50121-4, EN 61000-3-2, EN 61000-3-3, 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: KS C 9835, KS C 9832 Class A USA: FCC Part 15 Subpart B Class A
	Railway: IEC 62236-4
Safety	CAN/CSA C22.2 No. 62368-1 ed. 3, IEC/EN/UL 62368-1 ed. 3, IEC/EN 62471 risk group exempt, IS 13252
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
Cybersecurity	
Edge security	Software: Signed firmware, brute force delay protection, digest authentication, password protection, AES-XTS-Plain64 256bit SD card encryption Software: Signed OS, brute force delay protection, digest authentication, password protection, AES-XTS-Plain64 256bit SD card encryption Software: Signed firmware, 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 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: Axis Edge Vault cybersecurity platform Secure element (CC EAL 6+), system-on-chip security (TEE), Axis device ID control protection and course between the delay of the control protection and course between the course between t
Network security	device ID, secure keystore, signed video, secure boot, encrypted filesystem (AES-XTS-Plain64 256bit) IEEE 802.1X (EAP-TLS) ^b , IEEE 802.1AR, HTTPS/HSTS ^b , TLS
Documentation	ILLE 802-IA, ITALY 11-13, Network Time Security (NTS), X.509 Certificate PKI, IP address filtering IEEE 802.1X (EAP-TLS) ^b , IEEE 802.1AR, HTTPS/HSTS ^b , TLS v1.2/v1.3 ^b , Network Time Security (NTS), X.509 Certificate PKI, host-based firewall IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2) ^b , IEEE 802.1AR, HTTPS/HSTS ^b , TLS v1.2/v1.3 ^b , Network Time Security (NTS), X.509 Certificate PKI, IP address filtering IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2) ^b , IEEE 802.1AR, HTTPS/HSTS ^b , TLS v1.2/v1.3 ^b , Network Time Security (NTS), X.509 Certificate PKI, host-based firewall IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2) ^b , IEEE 802.1AE (MACsec PSK/EAP-TLS), IEEE 802.1AR, HTTPS/HSTS ^b , TLS v1.2/v1.3 ^b , Network Time Security (NTS), X.509 Certificate PKI, IP address filtering IEEE 802.1AE (MACsec PSK/EAP-TLS), IEEE 802.1AR, HTTPS/HSTS ^b , TLS v1.2/v1.3 ^b , Network Time Security (NTS), X.509 Certificate PKI, IS v1.2/v1.3 ^b , Network Time Security (NTS), X.509 Certificate PKI, host-based firewall AXIS OS Hardenina Guide
	AXIS OS Haraening 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	IDOC/IDOZ NIEMA AV I IVAO
Casing	IP66/IP67-, NEMA 4X-, and IK10-rated casing Polycarbonate blend and aluminium Color: white NCS S 1002-B For repainting instructions, go to the product's support page. For information about the impact on warranty, go to axis.com/warranty-implication-when-repainting.

Power	Power over Ethernet IEEE 802.3af/802.3at Type 1 Class 3 Typical: 7.9 W, max 12.95 W 10–28 V DC, typical 7.2 W, max 12.95 W
Connectors	Network: Shielded RJ45 10BASE-T/100BASE-TX/1000BASE-T Audio: 3.5 mm mic/line in I/O: Terminal block for 1 alarm input and 1 output (12 V DC output, max. load 25 mA) Power: DC input
IR illumination	OptimizedIR 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 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) Start-up temperature: -40 °C Humidity 10–100% RH (condensing)
Storage conditions	-40 °C to 65 °C (-40 °F to 149 °F) Humidity 5-95% RH (non-condensing)
Dimensions	Ø132 x 132 x 280 mm (Ø5.2 x 5.2 x 11.0 in) Effective Projected Area (EPA): 0.022 m² (0.24 ft²)
Weight	With weather shield: 1.2 kg (2.65 lb)
Box content	Camera, installation guide, TORX® L-keys, terminal block connector, connector guard, cable gaskets, AXIS Weather Shield L, owner authentication key
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, go to axis.com/products/axis-p1465-le-3/support#compatible-products
System tools	AXIS Site Designer, AXIS Device Manager, product selector, accessory selector, lens calculator Available at 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
Part numbers	Available at axis.com/products/axis-p1465-le-3#how-to-buy
Sustainability	
Substance control	PVC free, BFR/CFR free in accordance with JEDEC/ECA Standard JS709 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 axis.com/partner.
Materials	Screened for conflict minerals in accordance with OECD guidelines To read more about sustainability at Axis, go to axis.com/about-axis/sustainability
Environmental responsibility	axis.com/environmental-responsibility Axis Communications is a signatory of the UN Global Compact, read more at unglobalcompact.org

a. We recommend a maximum of 3 unique video streams per camera or channel, for optimized user experience, network bandwidth, and storage utilization. A unique video stream can be served to many video clients in the network using multicast or unicast transport method via built-in stream reuse functionality.
b. This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (openssl.org), and cryptographic software written by Eric Young (eav@cryptsoft.com).
c. Available for download
d. It also requires AXIS D2110-VE Security Radar with firmware 10.12 or later.

Dimension drawing



www.cxis.com T10191707/EN/M15.2/2406

Highlighted capabilities

Axis Edge Vault

Axis Edge Vault is the hardware-based cybersecurity platform that safeguards the Axis device. It forms the foundation that all secure operations depend on and offer features to protect the device's identity, safeguard its integrity and protect sensitive information from unauthorized access. For instance, secure boot ensures that a device can boot only with signed OS, which prevents physical supply chain tampering. With signed OS, the device is also able to validate new device software before accepting to install it. And the secure keystore is the critical building-block for protecting cryptographic information used for secure communication (IEEE 802.1X, HTTPS, Axis device ID, access control keys etc.) against malicious extraction in the event of a security breach. The secure keystore and secure connections are provided through a Common Criteria or FIPS 140 certified hardware-based cryptographic computing module.

Furthermore, signed video ensures that video evidence can be verified as untampered. Each camera uses its unique video signing key, which is securely stored in the secure keystore, to add a signature into the video stream allowing video to be traced back to the Axis camera from where it originated.

To read more about Axis Edge Vault, go to axis.com/solutions/edge-vault.

Forensic WDR

Axis cameras with wide dynamic range (WDR) technology make the difference between seeing important forensic details clearly and seeing nothing but a blur in challenging light conditions. The difference between the darkest and the brightest spots can spell trouble for image usability and clarity. Forensic WDR effectively reduces visible noise and

artifacts to deliver video tuned for maximal forensic usability.

Lightfinder

The Axis Lightfinder technology delivers high-resolution, full-color video with a minimum of motion blur even in near darkness. Because it strips away noise, Lightfinder makes dark areas in a scene visible and captures details in very low light. Cameras with Lightfinder discern color in low light better than the human eye. In surveillance, color may be the critical factor to identify a person, an object, or a vehicle.

OptimizedIR

Axis OptimizedIR provides a unique and powerful combination of camera intelligence and sophisticated LED technology, resulting in our most advanced camera-integrated IR solutions for complete darkness. In our pan-tilt-zoom (PTZ) cameras with OptimizedIR, the IR beam automatically adapts and becomes wider or narrower as the camera zooms in and out to make sure that the entire field of view is always evenly illuminated.

Zipstream

The Axis Zipstream technology preserves all the important forensic in the video stream while lowering bandwidth and storage requirements by an average of 50%. Zipstream also includes three intelligent algorithms, which ensure that relevant forensic information is identified, recorded, and sent in full resolution and frame rate.

For more information, see axis.com/glossary

