

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 freeflow 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 integro		
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 <i>axis.com</i>	
Languages	English	

AXIS P1465-LE-3 License Plate Verifier Kit

Camera		Network	
Image sensor	1/2.8" progressive scan RGB CMOS Pixel size 2.9 μm	Network protocols	IPv4, IPv QoS Laye
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° Vertical field of view 16°-6° Minimum focus distance: 2.5 m (8.2 ft)		UPnP [®] , S RTSP, RT DHCPv4, (RFC 316 IPv4, IPv QoS Laye
Day and night	Automatic IR-cut filter Hybrid IR filter		UPnP®, S RTSP, RT
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	System integra	DHCPv4/ (RFC 316
Shutter speed	With Forensic WDR: 1/37000 s to 2 s No WDR: 1/71500 s to 2 s	Application Programming	Open AP and AXIS
System on chip	(SoC)	Interface	axis.com
Model	ARTPEC-8		One-clic ONVIF®
Memory	1024 MB RAM, 8192 MB Flash		ONVIF®
Compute capabilities	Deep learning processing unit (DLPU)	Video management	Compati Pro, AXI
Video		systems	from Axi
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	Onscreen controls	Autofoci Day/nigh Defoggin Video st
Resolution	16:9: 1920x1080 to 160x90 16:10: 1280x800 to 160x100 4:3: 1280x960 to 160x120		Wide dy IR illumi Privacy i
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		Media c Electron
Video streaming	Up to 20 unique and configurable video streams ^a Axis Zipstream technology in H.264 and H.265	Edge-to-edge	Radar pa Speaker
	Controllable frame rate and bandwidth VBR/ABR/MBR H.264/H.265 Low latency mode Video streaming indicator	Event conditions	Applicat Device s operatin operatin
Signal-to-noise ratio	>55 dB		network live strea Digital a
WDR	Forensic WDR: Up to 120 dB depending on scene		Edge sto
Multi-view streaming	Up to 8 individually cropped out view areas		health is I/O: digit MQTT: si
Noise reduction	Spatial filter (2D noise reduction) Temporal filter (3D noise reduction)		Schedule Video: a
lmage 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	Event actions	Audio cl Day-nigl I/O: togo Illumina MQTT: p Notificat
Image processing	Axis Zipstream, Forensic WDR, Lightfinder 2.0, OptimizedIR		Overlay Recordir
Pan/Tilt/Zoom	Digital PTZ, digital zoom		SNMP tr
Audio Audio features	AGC automatic gain control Network speaker pairing		Upload o share an WDR mo
Audio streaming	Configurable duplex: One-way (simplex, half duplex)	Built-in installation aids	Pixel courrotation
Audio input	Two-way (half duplex, full duplex) 10-band graphic equalizer Input for external unbalanced microphone, optional 5 V microphone power Digital input, optional 12 V ring power Unbalanced line input	Analytics Applications	Included AXIS Ima AXIS Lic AXIS Liv tamperin
Audio output	Output via network speaker pairing		Support
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		AXIS Per Support installat

Network		
Network protocols	IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTP5 ^b , HTTP/2, TLS ^c , 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) IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTP5 ^d , HTTP/2, TLS ^e , QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP [®] , SMMP 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)	
System integra		
Application Programming Interface	Open API for software integration, including VAPIX [®] , metadata, and AXIS Camera Application Platform (ACAP); specifications at <i>axis.com/developer-community.</i> One-click cloud connection ONVIF [®] Profile G, ONVIF [®] Profile M, ONVIF [®] Profile S and ONVIF [®] Profile T, specification at <i>onvif.org</i>	
Video management systems	Compatible with AXIS Camera Station Edge, AXIS Camera Station Pro, AXIS Camera Station 5, and video management software from Axis' partners available at <i>axis.com/vms</i> .	
Onscreen controls	Autofocus Day/night shift Defogging Video streaming indicator Wide dynamic range IR illumination Privacy masks Media clip Electronic image stabilization	
Edge-to-edge	Radar pairing Speaker pairing	
Event conditions	Application Device status: above operating temperature, above or below operating temperature, below operating temperature, within 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/0: digital input, manual trigger, virtual input MQIT: subscribe Scheduled and recurring: schedule Video: average bitrate degradation, day-night mode, tampering	
Event actions	Audio clips: play, stop Day-night mode I/O: toggle I/O once, toggle I/O while the rule is active Illumination: use lights, use lights while the rule is active MQIT: publish Notification: HITP, HITPS, 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, HITP, HITPS, network share and email WDR mode	
Built-in installation aids	Pixel counter, remote zoom (3x optical), remote focus, auto rotation	
Analytics		
Applications	Included AXIS Image Health Analytics AXIS License Plate Verifier AXIS Lice Privacy Shield ^f , AXIS Video Motion Detection, active tampering, shock detection Supported AXIS Perimeter Defender, AXIS Speed Monitor ⁹ Support for AXIS Camera Application Platform enabling installation of third-party applications, see <i>axis.com/acap</i>	

AXIS Image Health Analytics	Detection settings: Tampering: blocked image, redirected image Image degradation: blurred image, underexposed image Other features: sensitivity, validation period	
Approvals		
Product markings	CSA, UL/cUL, BIS, UKCA, CE, KC, EAC	Documentation
Supply chain	TAA compliant	
EMC	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	Consul
	USA: FCC Part 15 Subpart B Class A	General Casing
	Railway: IEC 62236-4	cusing
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)	Power
Network	NIST SP500-267	
Cybersecurity	ETSI EN 303 645	Connectors
	ETSI EN 303 645, BSI IT Security Label	connectors
Cybersecurity		
Edge security	Software: Signed firmware, brute force delay protection, digest authentication, password protection, AES-XTS-Plain64 256bit SD card encryption	IR illumination
	Software: Signed OS, brute force delay protection, digest authentication, password protection, AES-XTS-Plain64 256bit	
	SD card encryption	Storage
	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	Operating conditions
	protection, AES-XTS-Plain64 256bit SD card encryption Hardware: Axis Edge Vault cybersecurity platform	Storage
	Secure element (CC EAL 6+), system-on-chip security (TEE), Axis	conditions
	device ID, secure keystore, signed video, secure boot, encrypted filesystem (AES-XTS-Plain64 256bit)	Dimensions
Network security	IEEE 802.1X (EAP-TLS) ^h , IEEE 802.1AR, HTTPS/HSTS ¹ , TLS v1.2/v1.3 ^j , Network Time Security (NTS), X.509 Certificate PKI, IP address filtering	Weight
	IEEE 802.1X (EAP-TLS) ^k , IEEE 802.1AR, HTTPS/HSTS ^I , TLS v1.2/v1.3 ^m , Network Time Security (NTS), X.509 Certificate PKI,	Box content
	IP address filtering IEEE 802.1X [EAP-TLS] ⁿ , IEEE 802.1AR, HTTPS/HSTS ⁰ , TLS v1.2/v1.3 ^p , Network Time Security (NTS), X.509 Certificate PKI, host-based firewall IEEE 802.1X (EAP-TLS) ^q , IEEE 802.1AR, HTTPS/HSTS ^r , TLS v1.2/v1.3 ^s , Network Time Security (NTS), X.509 Certificate PKI,	Optional accessories
	host-based firewall IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2) [†] , IEEE 802.1AR, HTTPS/HSTS ^u , TLS v1.2/v1.3 ^v , Network Time Security (NTS), X.509	System tools
	Certificate PKI, IP address filtering IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2) ^W , IEEE 802.1AR, HTTPS/HSTS ^X , TLS v1.2/v1.3 ^Y , Network Time Security (NTS), X.509 Certificate PKI, IP address filtering	Languages
	IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2) ^z , IEEE 802.1AR,	Warranty
	HTTPS/HSTS ^{aa} , TLS v1.2/v1.3 ^{ab} , Network Time Security (NTS), X.509 Certificate PKI, host-based firewall	Part numbers
	IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2) ^{ac} , IEEE 802.1AR,	Sustainability
	HTTPS/HSTS ^{ad} , TLS v1.2/v1.3 ^{ae} , Network Time Security (NTS), X.509 Certificate PKI, host-based firewall IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2) ^{af} , IEEE 802.1AE (MACsec PSK/EAP-TLS), IEEE 802.1AR, HTTPS/HSTS ^{ag} , TLS v1.2/v1.3 ^{ah} , Network Time Security (NTS), X.509 Certificate PKI, IP address filtering IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2) ^{ai} ,	Substance control
	IEEE 802.1A (EAR-FLS, IEAR-INISCIARV2) ²⁴ , IEEE 802.1AE (MACSec PSK/EAP-TLS), IEEE 802.1AR, HTTPS/HSTS ^{aj} , TLS v1.2/v1.3 ^{ak} , Network Time Security (NTS), X.509 Certificate PKI, IP address filtering IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2) ^{al} , IEEE 802.1AE (MACsec PSK/EAP-TLS), IEEE 802.1AR,	Materials

		HTTPS/HSTS ^{am} , TLS v1.2/v1.3 ^{an} , Network Time Security (NTS), X.509 Certificate PKI, host-based firewall
ge		IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2) ^{a0} , IEEE 802.1AE (MACsec PSK/EAP-TLS), IEEE 802.1AR, HTTPS/HSTS ^{ap} , TLS v1.2/v1.3 ^{aq} , Network Time Security (NTS), X.509 Certificate PKI, host-based firewall
nss A, D-6-1, A	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/cybersecu- rity/resources To read more about Axis cybersecurity support, go to axis.com/cybersecurity
	General	
-1 ed. 3,	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 <i>axis.com/warranty-implication-when-repainting.</i>
/IP67, .2.7-2.2.9)	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
on, digest I 256bit	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
gest	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
256bit on, digest rization	Storage	Support for microSD/microSDHC/microSDXC card Recording to network-attached storage (NAS) For SD card and NAS recommendations see axis.com
password n gest rization password	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)
n (TEE), Axis	Storage conditions	-40 °C to 65 °C (-40 °F to 149 °F) Humidity 5-95% RH (non-condensing)
ncrypted	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)
LS ate PKI,	Weight	With weather shield: 1.2 kg (2.65 lb)
LS cate PKI,	Box content	Camera, installation guide, TORX [®] L-keys, terminal block connector, connector guard, cable gaskets, AXIS Weather Shield L, owner authentication key
TLS cate PKI, TLS cate PKI,	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
AR, ITS), X.509	System tools	AXIS Site Designer, AXIS Device Manager, product selector, accessory selector, lens calculator Available at axis.com
AR, ITS), X.509	Languages	English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Traditional Chinese, Dutch, Czech, Swedish, Finnish, Turkish, Thai, Vietnamese
AR, ' (NTS),	Warranty	5-year warranty, see <i>axis.com/warranty</i>
	Part numbers	Available at axis.com/products/axis-p1465-le-3#how-to-buy
AR, (NTS),	Sustainability	
γ (NTS),	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.
(NTS),	Materials	Screened for conflict minerals in accordance with OECD guidelines To read more about sustainability at Axis, go to

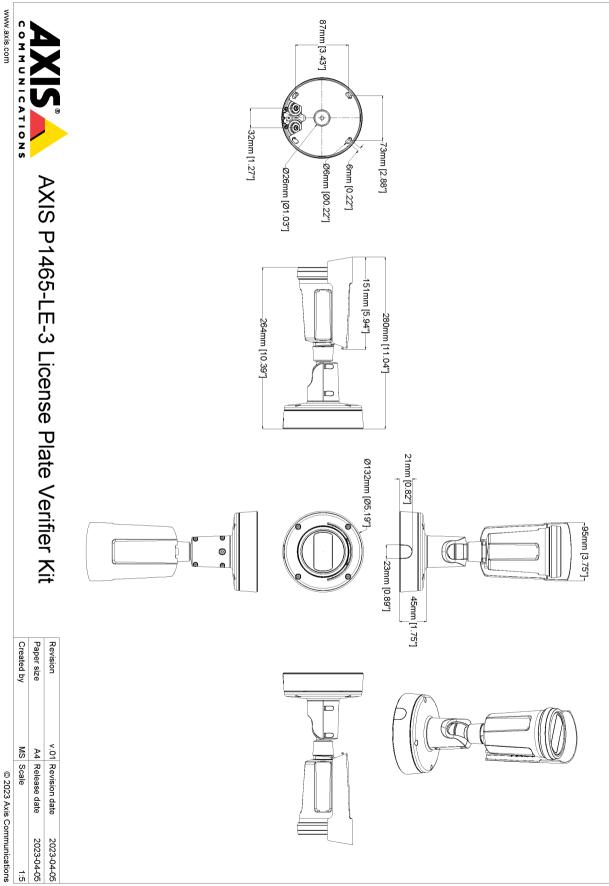
Environmental responsibility

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 Toolkit. (openssl.org), and cryptographic software written by Eric Young for written by Eric Young
- (eay@cryptsoft.com). This product includes software developed by the OpenSSL Project for use in the
- c OpenSLI Tolkit. (opensl.org), and cryptographic software written by Eric Young (eav@cryptsoft.com). This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (opensl.org), and cryptographic software written by Fric Young
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- (eay@cryptsoft.com). 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). Available for download It also requires AXIS D2110-VE Security Radar with firmware 10.12 or later.
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Dimension drawing



Highlighted capabilities

Axis Edge Vault

Axis Edge Vault is the hardware-based cybersecurity platform that safequards the Axis device. It forms the foundation that all secure operations depend on and offer features to protect the device's identity, safequard 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

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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*

