

# AXIS P3925-LRE Network Camera

## Onboard camera for exterior monitoring

AXIS P3925-LRE specially designed for side view monitoring on buses, trains, and transportation vehicles. It can also be used for identifying maintenance needs on rolling stock, for example, wear and tear of pantograph collector strips. This robust and compact camera features a tempered glass window and complies with transport industry standards and IK10+, IP66, IP67, and IP6K9K. It delivers HDTV 1080p with Lightfinder for color images in poor light and Forensic WDR for maximal forensic usability in mixed light conditions. Plus, built-in IR Illumination enables monitoring in complete darkness. Furthermore, it supports exchangeable lenses for full flexibility.

- > [Complies with EN50155 and EN45545-2](#)
- > [IR illumination and EIS](#)
- > [Lightfinder and Forensic WDR](#)
- > [Low latency mode](#)
- > [Built-in cybersecurity features](#)



# AXIS P3925-LRE Network Camera

<b>Models</b>	AXIS P3925-LRE RJ45 AXIS P3925-LRE M12	MQTT subscribe Scheduled and recurring: scheduled event Video: average bitrate degradation, day-night mode, live stream open, tampering
<b>Camera</b>		
<b>Image sensor</b>	1/2.9" Progressive scan RGB CMOS	
<b>Lens</b>	6.0 mm, F1.9 Horizontal field of view: 56° Vertical field of view: 30° M12 mount, fixed iris See <b>Optional accessories</b> for exchangeable lenses	
<b>Day and night</b>	Automatically removable infrared-cut filter	
<b>Minimum illumination</b>	Color: 0.07 lux at 30 IRE F1.9 B/W: 0.02 lux at 30 IRE F1.9, 0 lux with IR illumination on Color: 0.14 lux at 50 IRE F1.9 B/W: 0.04 lux at 50 IRE F1.9, 0 lux with IR illumination on	
<b>Shutter speed</b>	1/33500 s to 2 s	
<b>Camera angle adjustment</b>	Pan: ±20° Tilt: 0-15° Rotation: ±175°	
<b>System on chip (SoC)</b>		
<b>Model</b>	ARTPEC-7	
<b>Memory</b>	1 GB RAM, 512 MB Flash	
<b>Video</b>		
<b>Video compression</b>	H.264 (MPEG-4 Part 10/AVC) Baseline, Main and High Profiles H.265 (MPEG-H Part 2/HEVC) Main Profile Motion JPEG	
<b>Resolution</b>	1280x960 to 160x120 1920x1080 to 160x90	
<b>WDR</b>	Forensic WDR	
<b>Frame rate</b>	Up to 25/30 fps (50/60 Hz) in all resolutions 45 fps in 720p Capture mode 2MP 1920x1080 (16:9) @25/30 fps Capture mode 1MP 1280x720 (16:9) @45 fps	
<b>Video streaming</b>	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 and H.265 Video streaming indicator Low latency mode	
<b>Multi-view streaming</b>	Up to 8 individually cropped out view areas	
<b>Image settings</b>	Compression, brightness, sharpness, contrast, white balance, Forensic WDR, exposure control, exposure zones, fine tuning of behavior at low light, rotation: 0°, 90°, 180°, 270° including Corridor Format, dynamic overlay, 20 individual polygonal privacy mask, mirroring of images, defogging, electronic image stabilization <sup>a</sup> Scene profiles: forensic, vivid, traffic overview	
<b>Pan/Tilt/Zoom</b>	Digital PTZ, preset positions, guard tour, control queue	
<b>Network</b>		
<b>Network protocols</b>	IPv4, IPv6 USGv6, HTTP, HTTPS, HTTP/2, TLS, QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP <sup>®</sup> , 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)	
<b>System integration</b>		
<b>Application Programming Interface</b>	Open API for software integration, including VAPIX <sup>®</sup> and AXIS Camera Application Platform; specifications at <a href="http://axis.com">axis.com</a> AXIS Video Hosting System (AVHS) with One-Click Connection One-click cloud connection ONVIF <sup>®</sup> Profile G, ONVIF <sup>®</sup> Profile M, ONVIF <sup>®</sup> Profile S and ONVIF <sup>®</sup> Profile T, specification at <a href="http://onvif.org">onvif.org</a>	
<b>Event conditions</b>	Device status: above operating temperature, above or below operating temperature, below operating temperature, IP address removed, network lost, new IP address, shock detected, storage failure, system ready, within operating temperature Edge storage: recording ongoing, storage disruption I/O: manual trigger, virtual input	
<b>Event actions</b>	Day-night mode Defog Guard tours Upload images or video clips: FTP, HTTP, HTTPS, SFTP, email and network share Notification: HTTP, HTTPS, TCP and email Overlay text Preset positions Record video: SD card and network share SNMP trap messages WDR mode MQTT publish	
<b>Data streaming</b>	Event data	
<b>Built-in installation aids</b>	Pixel counter	
<b>Analytics</b>		
<b>Applications</b>	Included AXIS Motion Guard, AXIS Fence Guard, AXIS Loitering Guard AXIS Video Motion Detection, shock detection Support for AXIS Camera Application Platform enabling installation of third-party applications, see <a href="http://axis.com/acap">axis.com/acap</a>	
<b>Cybersecurity</b>		
<b>Edge security</b>	<b>Software:</b> 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 <b>Hardware:</b> Secure boot	
<b>Network security</b>	IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2), IEEE 802.1AE (MACsec PSK/EAP-TLS), HTTPS/HSTS, TLS v1.2/v1.3, Network Time Security (NTS), X.509 Certificate PKI, host-based firewall	
<b>Documentation</b>	<i>AXIS OS Hardening Guide</i> <i>Axis Vulnerability Management Policy</i> <i>Axis Security Development Model</i> AXIS OS Software Bill of Material (SBOM) To download documents, go to <a href="http://axis.com/support/cybersecurity/resources">axis.com/support/cybersecurity/resources</a> To read more about Axis cybersecurity support, go to <a href="http://axis.com/cybersecurity">axis.com/cybersecurity</a>	
<b>General</b>		
<b>Casing</b>	IP66/67-, NEMA 250 4X-, IP6K9K- and IK10+--rated aluminum casing with AR-coated tempered glass	
<b>Sustainability</b>	PVC free	
<b>Mounting</b>	Outside vehicles and rolling stock	
<b>Memory</b>		
<b>Power</b>	<b>Camera:</b> Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 1 Class 3 IR illumination on: typical 6.3 W, max 11.8 W <b>Heater:</b> 24 V DC, max 53.4 W	
<b>Connectors</b>	RJ45: male, 10BASE-T/100BASE-TX M12: female, rugged, D-coded with rotatable coupling nut All connectors support PoE	
<b>IR illumination</b>	Optimized IR with power-efficient, long-life 850 nm IR LEDs Range of reach 20 m (65.6 ft) or more depending on the scene	
<b>Storage</b>	Support for microSD/microSDHC/microSDXC card with UHS Speed Class U1 Support for SD card encryption (AES-XTS-Plain64 256bit) Support for recording to network-attached storage (NAS) For SD card and NAS recommendations see <a href="http://axis.com">axis.com</a>	
<b>Operating conditions</b>	Normal: -40 °C to 55 °C (-40 °F to 131 °F) Maximum (intermittent): 70 °C (158 °F) Arctic Temperature Control: start-up at -40 °C (-40 °F) Humidity: 10-100% RH (condensing)	
<b>Storage conditions</b>	-40 °C to 65 °C (-40 °F to 149 °F)	

<b>Approvals</b>	<b>EMC</b> EN 55032 Class A, EN 55035, EN 61000-6-1, EN 61000-6-2, FCC Part 15 Subpart B Class A, ICES-3(A)/NMB-3(A), VCCI Class A, RCM AS/NZS CISPR 32 Class A, KCC KN32 Class A, KN35, EN 50121-4, EN 50121-3-2, IEC 62236-4, ECE R10 rev.06 (E approval), EN 50498	<b>Included accessories</b>	Installation guide, Windows® decoder 1-user license, drill hole template, lens tool, Resistorx® L-key, masking kit
	<b>Safety</b> IEC/EN/UL 62368-1, CAN/CSA C22.2 No. 62368-1, IEC/EN/UL 60950-22, CAN/CSA-C22.2 No. 60950-22, EN 45545-2, UN ECE R118, IS 13252, IEC 62471	<b>Optional accessories</b>	<b>Lenses</b> Lens M12 3.6 mm F1.8 IR: horizontal field of view 86°, vertical field of view 46° Lens M12 8 mm F1.8 IR: horizontal field of view 41°, vertical field of view 22° <b>Other</b> RJ45: Network coupler IP66, network cable coupler indoor For more accessories, see <a href="http://axis.com">axis.com</a>
<b>Dimensions</b>	<b>Environment</b> IEC/EN 61373 Category 1 Class B, IEC/EN 60529 IP66, IEC/EN 60529 IP67, NEMA 250 Type 4X, ISO 20653 IP6K9K, IEC/EN 62262 IK10+, IEC 60721-3-5 Class 5M3 (vibration and shock), EN 50155:2017 OT2/ST2, IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-27, IEC 60068-2-64	<b>Video management software</b>	AXIS Companion, AXIS Camera Station, video management software from Axis' Application Development Partners available at <a href="http://axis.com/vms">axis.com/vms</a>
	<b>Weight</b>	<b>Network</b> NIST SP500-267	<b>Languages</b>
		<b>Warranty</b>	5-year warranty, see <a href="http://axis.com/warranty">axis.com/warranty</a>
		a. Use <i>this function</i> only when camera is directed to capture scenes outside of the vehicle	