

## 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

## Variants

AXIS P3925-LRE RJ45  
AXIS P3925-LRE M12

## Camera

### Image sensor

1/2.9" Progressive scan RGB CMOS

### Lens

6.0 mm, F1.9  
Horizontal field of view: 56°  
Vertical field of view: 30°  
M12 mount, fixed iris  
See [Optional accessories](#) for exchangeable lenses

### Day and night

Automatically removable infrared-cut filter

### Minimum illumination

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

### Shutter speed

1/33500 s to 2 s

### Camera adjustment

Pan:  $\pm 20^\circ$   
Tilt: 0-15°  
Rotation:  $\pm 175^\circ$

## System on chip (SoC)

### Model

ARTPEC-7

### Memory

1 GB 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

1280x960 to 160x120  
1920x1080 to 160x90

### WDR

Forensic WDR

### Frame rate

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

### 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 and H.265  
Video streaming indicator  
Low latency mode

### Multi-view streaming

Up to 8 individually cropped out view areas

### Image settings

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>1</sup>  
Scene profiles: forensic, vivid, traffic overview

### Pan/Tilt/Zoom

Digital PTZ, preset positions, guard tour, control queue

1. Use this function only when camera is directed to capture scenes outside of the vehicle

## Network

### Network protocols

IPv4, IPv6 USGv6, HTTP, HTTPS<sup>2</sup>, HTTP/2, TLS<sup>2</sup>, 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)

## System integration

### Application Programming Interface

Open API for software integration, including VAPIX<sup>®</sup> and AXIS Camera Application Platform; specifications at [axis.com](http://axis.com)

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 [onvif.org](http://onvif.org)

### 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 [axis.com/vms](http://axis.com/vms).

### Event conditions

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

MQTT subscribe

Scheduled and recurring: scheduled event

Video: average bitrate degradation, day-night mode, live stream open, tampering

### Event actions

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

### Data streaming

Event data

### Built-in installation aids

Pixel counter

## Analytics

### Applications

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 [axis.com/acap](http://axis.com/acap)

## Cybersecurity

### Edge security

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

**Hardware:** Secure boot

### Network security

IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2)<sup>2</sup>, IEEE 802.1AE (MACsec PSK/EAP-TLS), HTTPS/HSTS<sup>2</sup>, TLS v1.2/v1.3<sup>2</sup>, Network Time Security (NTS), X.509 Certificate PKI, host-based firewall

2. This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. ([openssl.org](http://openssl.org)), and cryptographic software written by Eric Young ([ey@cryptsoft.com](mailto:ey@cryptsoft.com)).

## 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](https://axis.com/support/cybersecurity/resources)

To read more about Axis cybersecurity support, go to [axis.com/cybersecurity](https://axis.com/cybersecurity)

## General

### Casing

IP66/67-, NEMA 250 4X-, IP6K9K- and IK10+-rated aluminum casing with AR-coated tempered glass

### Sustainability

PVC free

### Mounting

Outside vehicles and rolling stock

### Memo-

r-

y

### Power

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

IR illumination on: typical 6.3 W, max 11.8 W

**Heater:** 24 V DC, max 53.4 W

### Connectors

RJ45: male, 10BASE-T/100BASE-TX

M12: female, rugged, D-coded with rotatable coupling nut

All connectors support PoE

### IR illumination

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

### Storage

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 [axis.com](https://axis.com)

## Operating conditions

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)

## Storage conditions

-40 °C to 65 °C (-40 °F to 149 °F)

## Approvals

### EMC

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

### Safety

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

### Environment

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 50155:2021 OT2/ST2, IEC 60068-2-1, I

EC 60068-2-2, IEC 60068-2-27, IEC 60068-2-64

### Network

NIST SP500-267

## Dimensions

160 x 116 x 63 mm (6.30 x 4.57 x 2.48 in)

## Weight

RJ45: 770 g (1.70 lb)

M12: 780 g (1.72 lb)

## Included accessories

Installation guide, Windows® decoder 1-user license, drill hole template, lens tool, Resistorx® L-key, masking kit

## Optional accessories

### Lenses

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°

### Other

RJ45: Network coupler IP66,

network cable coupler indoor

For more accessories, see [axis.com](https://axis.com)

## Languages

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

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## Warranty

5-year warranty, see [axis.com/warranty](https://www.axis.com/warranty)