AXIS P3905-R Mk II Network Camera

Onboard HDTV 1080p surveillance with Zipstream

AXIS P3905-R Mk II Network Camera is specially designed for video surveillance in vehicles and rolling stock. The compact, discreet, and rugged camera is IP66/IP67-rated, and can withstand tough conditions such as vibration, shock and temperature fluctuations. Optional accessories for outdoor installation and wider field of view available. The camera provides HDTV 1080p with WDR and Lightfinder to ensure high image quality in mixed and low-light conditions. Traffic Light mode enables the camera to distinguish traffic light colors in dark scenes. AXIS P3905-R Mk II supports Zipstream, which significantly reduces bandwidth and storage requirements.

> **Rugged design with EN 50155:2017 Class OT2/ST2 compliance**
> **Compliance with strict standards in transportation industry**
> **WDR - forensic capture and Lightfinder**
> **Zipstream**
> **Traffic Light mode**

AXIS P3905-R Mk II Network Camera

Models	AXIS P3905–R Mk II: RJ45 AXIS P3905–R Mk II: M12 AXIS P3905–R Mk II without lens (barebone): RJ45 AXIS P3905–R Mk II without lens (barebone): M12

Camera

Image sensor	1/2.9" Progressive scan RGB CMOS
Lens	3.6 mm, F2.0 Horizontal field of view: 87° Vertical field of view: 47° M12 mount, fixed iris See **Optional accessories** for exchangeable lenses
Light sensitivity	HDTV 1080p 25/30 fps with Lightfinder **Color:** 0.15 lux at 50 IRE F2.0 **Color:** 0.06 lux at 30 IRE F2.0 **Color:** 0.08 lux at 50 IRE F1.2 **Color:** 0.04 lux at 30 IRE F1.2
Shutter time	1/32500 s to 2 s
Camera angle adjustment	Pan: ±30° Tilt: 15-90° Rotation: ±175°

Video

Video compression	H.264 (MPEG-4 Part 10/AVC) Baseline, Main and High Profiles Motion JPEG
Resolution	1920x1080 to 160x90
Wide dynamic range	WDR - forensic capture
Frame rate	Up to 25/30 fps (50/60 Hz) in all resolutions
Video streaming	Multiple, individually configurable streams in H.264 and Motion JPEG Axis Zipstream technology in H.264 Controllable frame rate and bandwidth VBR/MBR H.264
Image settings	Compression, color, brightness, sharpness, contrast, white balance, exposure control, exposure zones, fine tuning of behavior at low light, rotation: 0°, 90°, 180°, 270° including Corridor Format, text and image overlay, 20 individual privacy mask, mirroring of images, Traffic Light mode
Pan/Tilt/Zoom	Digital PTZ, preset positions, Guard tour, control queue

Network

Security	Password protection, IP address filtering, HTTPS[a] encryption, network access control, digest authentication, user access log, centralized certificate management, signed firmware, secure boot
Supported protocols	IPv4/v6, HTTP, HTTPS[a], SSL/TLS[a], QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, Bonjour, UPnP™, SNMP v1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP, ARP, SOCKS, SRTP, SSH

System integration

Application Programming Interface	Open API for software integration, including VAPIX® and AXIS Camera Application Platform; specifications at www.axis.com AXIS Guardian with One-Click Connection ONVIF® Profile G and ONVIF® Profile S, specification at www.onvif.org
Analytics	**Included** AXIS Video Motion Detection, active tampering alarm[b] **Supported** AXIS Perimeter Defender Support for AXIS Camera Application Platform enabling installation of third-party applications, see www.axis.com/acap
Event triggers	Analytics, time scheduled, edge storage events
Event actions	Record video: SD card and network share Upload 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
Data streaming	Event data
Built–in installation aids	Pixel counter

General

Casing	Aluminum and polycarbonate casing
Sustainability	PVC free
Mounting	Inside vehicles and rolling stock[c]
Memory	512 MB RAM, 256 MB Flash
Power	Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 1 Class 2 Typical 2.9 W, max 3.6 W
Connectors	**RJ45:** male, 10BASE-T/100BASE-TX **M12:** female, rugged, D-coded with rotatable coupling nut All connectors support PoE
Storage	Support for microSD/microSDHC/microSDXC card Support for SD card encryption Support for recording to network-attached storage (NAS) For SD card and NAS recommendations see www.axis.com
Operating conditions	Normal: -40 °C to 60 °C (-22 °F to 140 °F) Maximum (intermittent): 70 °C (158 °F) Arctic Temperature Control: start-up at -40 °C (-40 °F) Humidity: 10-100% RH
Storage conditions	-40 °C to 65 °C (-40 °F to 149 °F)
Approvals	**EMC** EN 55032 Class A, EN 55024, EN 61000-6-1, EN 61000-6-2, FCC Part 15 Subpart B Class A, ICES-003 Class 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.05 (E approval), EN 50498, EAC **Safety** IEC/EN/UL 62368-1, EN 45545, UN ECE R118, parts of NFPA 130[d], IS 13252 **Environment** IEC/EN 61373 Category 1 Class B, IEC/EN 60529 IP66/67, NEMA 250 Type 4X, IEC/EN 62262 IK08, IEC 60721-3-5 Class 5M3 (vibration and shock), EN 50155:2017 Class OT2/ST2 (EN 50155:2007 Class TX), IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-27, IEC 60068-2-64, IEC 60068-2-78
Dimensions	Height: 49 mm (1 15/16 in), ø 109 mm (4 3/16 in)
Weight	**RJ45:** 241 g (0.53 lb) **M12:** 248 g (0.55 lb)
Included accessories	Installation guide, Windows decoder 1-user license, drill hole template, top cover tool, lens tool, Allen key Resistorx®
Optional accessories	**Lenses** 2.1 mm, F2.2: horizontal field of view 147° 2.8 mm, F1.2: horizontal field of view 110° 6 mm, F1.6: horizontal field of view 52° 8 mm, F1.6: horizontal field of view 40° **Other** AXIS T96B05 Outdoor Housing, AXIS T94D01S Mount Bracket, AXIS T94D02S Mount Bracket, Network coupler IP66, Network cable coupler indoor For more accessories, see www.axis.com
Video management software	AXIS Companion, AXIS Camera Station, video management software from Axis' Application Development Partners available on www.axis.com/support/downloads
Languages	English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Traditional Chinese
Warranty	Axis 3-year warranty and AXIS Extended Warranty option, see www.axis.com/warranty

a. *This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (www.openssl.org), and cryptographic software written by Eric Young (eay@cryptsoft.com).*
b. *For detection of tampering attempts in static and non-crowded scenes.*
c. *For outdoor applications, use AXIS T96B05 Outdoor Housing.*
d. *ASTM E162 and the non-flaming parts of ASTM E662*

Environmental responsibility:

axis.com/environmental-responsibility

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