

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	Built-in installation aids	Pixel counter
Camera			
Image sensor	1/2.9" Progressive scan RGB CMOS	General	Aluminum and polycarbonate casing
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	Sustainability	PVC free
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	Mounting	Inside vehicles and rolling stock ^c
Shutter time	1/32500 s to 2 s	Memory	512 MB RAM, 256 MB Flash
Camera angle adjustment	Pan: ±30° Tilt: 15-90° Rotation: ±175°	Power	Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 1 Class 2 Typical 2.9 W, max 3.6 W
Video			
Video compression	H.264 (MPEG-4 Part 10/AVC) Baseline, Main and High Profiles Motion JPEG	Connectors	RJ45: male, 10BASE-T/100BASE-TX M12: female, rugged, D-coded with rotatable coupling nut All connectors support PoE
Resolution	1920x1080 to 160x90	Storage	Support for microSD/microSDHC/microSDXC card and encryption Support for recording to network-attached storage (NAS) For SD card and NAS recommendations see axis.com
Wide dynamic range	WDR - forensic capture	Operating conditions	Normal: -40 °C to 60 °C (-40 °F to 140 °F) Maximum (intermittent): 70 °C (158 °F) Arctic Temperature Control: start-up at -40 °C (-40 °F) Humidity: 10-100% RH
Frame rate	Up to 25/30 fps (50/60 Hz) in all resolutions	Storage conditions	-40 °C to 65 °C (-40 °F to 149 °F)
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	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
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	Dimensions	Height: 49 mm (1 15/16 in), ø 109 mm (4 3/16 in)
Pan/Tilt/Zoom	Digital PTZ, preset positions, guard tour, control queue	Weight	RJ45: 241 g (0.53 lb) M12: 248 g (0.55 lb)
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	Included accessories	Installation guide, Windows [®] decoder 1-user license, drill hole template, top cover tool, lens tool, Allen key Resistorx [®]
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, SRTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP, ARP, SOCKS, SSH	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 Curved Mount Bracket, network coupler IP66, network cable coupler indoor For more accessories, see axis.com
System integration			
Application Programming Interface	Open API for software integration, including VAPIX [®] and AXIS Camera Application Platform; specifications at axis.com AXIS Video Hosting System (AVHS) with One-Click Connection ONVIF [®] Profile G and ONVIF [®] Profile S, specification at onvif.org	Video management software	AXIS Companion, AXIS Camera Station, video management software from Axis' Application Development Partners available at axis.com/vms
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 axis.com/acap	Languages	English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Traditional Chinese
Event conditions	Analytics, time scheduled, edge storage events	Warranty	Axis 3-year warranty and AXIS Extended Warranty option, see axis.com/warranty
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	<p>a. 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).</p> <p>b. For detection of tampering attempts in static and non-crowded scenes.</p> <p>c. For outdoor applications, use AXIS T96B05 Outdoor Housing.</p> <p>d. ASTM E162 and the non-flaming parts of ASTM E662</p>	
Data streaming	Event data	Environmental responsibility: axis.com/environmental-responsibility	