

AXIS P3905-R Mk III Dome Camera 2 MP indoor onboard surveillance

This compact and discreet 2 MP onboard camera complies with rolling stock standards such as EN50155 and EN45545. It can withstand vibrations and a wide range of temperatures. Additionally, with AXIS TP3826-E housing this dome camera can be mounted on the outside of a vehicle. Thanks to Lightfinder and Forensic WDR, it provides details even in challenging light conditions. And with traffic light mode it can distinguish the color of traffic lights in dark scenes. Optional M12 lenses are available to adjust field of view for customized monitoring purposes.

- > Compact, rugged design
- > Complies with EN50155
- > Lightfinder and Forensic WDR
- > Zipstream
- > Traffic Light mode







AXIS P3905-R Mk III Dome Camera

Variants	AXIS P3905-R Mk III RJ45 3.6 mm AXIS P3905-R Mk III M12 3.6 mm AXIS P3905-R Mk III M12 2.8 mm	
Camera		
Image sensor	1/2.9" Progressive scan RGB CMOS Pixel size 2.8 μm	
Lens	3.6 mm, F2.0 : Horizontal field of view: 88° Vertical field of view: 47° Minimum focus distance: 0.3 m (1 ft) M12 mount, fixed iris 2.8 mm, F1.2 : Horizontal field of view: 107° Vertical field of view: 56° Minimum focus distance: 0.3 m (1 ft) M12 mount, fixed iris See Optional accessories for exchangeable lenses	
Minimum illumination	3.6 mm, F2.0 : Color: 0.04 lux at 30 IRE F2.0 Color: 0.13 lux at 50 IRE F2.0 2.8 mm, F1.2 : Color: 0.02 lux at 30 IRE F1.2 Color: 0.07 lux at 50 IRE F1.2	
Shutter speed	With WDR: 1/19000 s to 1/5 s No WDR: 1/17000 s to 1/5 s	
Camera adjustment	Pan: ±30° Tilt: 15-90° Rotation: ±175°	
System on chip	(SoC)	
Model	S6LM55	
Memory	1024 MB RAM, 512 MB Flash	
Video		
Video compression	H.264 (MPEG-4 Part 10/AVC) Main and High Profiles H.265 (MPEG-H Part 2/HEVC) Main Profile Motion JPEG	
Resolution	16:9: 1920x1080 to 640X360 16:10: 1280x800 to 640x400 4:3: 1280x960 to 320x240	
Frame rate	H.264 and H.265: 25/30 fps (50/60 Hz) in all resolutions Motion JPEG: 15 fps (50/60 Hz) in all resolutions	
Video streaming	Up to 4 unique and configurable video streams ^a 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	
WDR	Forensic WDR: Up to 120 dB depending on scene	
Noise reduction	Spatial filter (2D noise reduction) Temporal filter (3D noise reduction)	
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, 32 individual polygonal privacy mask, mirroring of images Scene profiles: forensic, vivid, traffic overview	
3. 3	Axis Zipstream, Forensic WDR, Lightfinder	
Pan/Tilt/Zoom	Digital PTZ, preset positions, guard tour, control queue	
Network Network protocols	IPv4, IPv6 USGv6, HTTP, HTTPS, HTTP/2, TLS, QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP*, SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, RTSP, RTP, SRTP, TCP, UDP, IGMPv1/v2/v3, RTCP, ICMP, DHCPv4/v6, ARP, SOCKS, SSH, LLDP, CDP, MQTT v3.1.1, Syslog, Link-Local address (ZeroConf)	
System integra	tion	
Application Programming Interface	Open API for software integration, including VAPIX [®] and AXIS Camera Application Platform (ACAP); specifications at axis.com/developer-community. One-click cloud connection	

ONNIPP Profile T, specification at onviforg Video Compatible with AXIS Camera Station Edge, AXIS Camera Station Edge, AXIS Camera Station Edge, AXIS Camera Station Edge, AXIS Camera Station S, and video management softw from Axis' partners available at <i>axis.com/vms</i> . Onscreen Video streaming indicator Controls Device status: above operating temperature, above or beld operating temperature, below operating temperature, systerady, within operating temperature, above or beld operating temperature tedge storage: recording ongoing, storage disruption 1/0: manual trigger, vitual input MQTT subscribe Event actions Guard tours Upload and recurring: scheduled event Video: average bitrate degradation, live stream open, tamp Shafe and the system operating temperature, above or beld operating temperature, above or b	I Dome	Cumera
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	Network security	IEEE 802.1x (EAP-TLS, PEAP-MSCHAPv2), IEEE 802.1AE (MACsec PSK/EAP-TLS), IEEE 802.1AR,

	HTTPS/HSTS, TLS v1.2/v1.3, Network Time Security (NTS), X.509 Certificate PKI, host-based firewall
Documentation	AXIS Hardening Guide AXIS Vulnerability Management Policy AXIS Security Development Model AXIS OS Software Bill of Material (SBOM) To download documents, go to <i>axis.com/support/cybersecu-</i> <i>rity/resources</i> To read more about Axis cybersecurity support, go to <i>axis.com/cybersecurity</i>
General	
Casing	IP66/67-, Parts of NEMA 250 Type 4X- and IK10-rated aluminum and polycarbonate casing
Mounting	Inside vehicles and rolling stock
Power	Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 1 Class 1 Typical 2.2 W, max 3.8 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 with UHS Speed Class U1 Support for recording to network-attached storage (NAS) For SD card and NAS recommendations see <i>axis.com</i>
Operating conditions	-30 °C to 55 °C (-22 °F to 131 °F) Maximum (intermittent): 70 °C (158 °F) Humidity: 10-100% RH (condensing)
Storage conditions	-40 °C to 65 °C (-40 °F to 149 °F)
Dimensions	Height: 50 mm (1.97 in), ø 110 mm (4.33 in)
Weight	241 g (0.53 lb)
Box content	Camera, Installation guide, Windows® decoder 1-user license, lens tool
Optional accessories	Lenses Lens M12 2.1 mm, F2.2: horizontal field of view 145° Lens M12 2.8 mm, F1.2: horizontal field of view 107° Lens M12 3.6 mm, F2.0 : horizontal field of view 88° Lens M12 6 mm, F1.6: horizontal field of view 51°

	Lens M12 8 mm, F1.6: horizontal field of view 39° Other AXIS T94D01S Mount Bracket, AXIS T94D02S Curved Mount Bracket, Network coupler IP66, Network cable coupler indoor, TM3101 Pendant Wall Mount, AXIS TP3826-E housing, TP3827 Clear Dome Cover, TP3830 Top Black Cover For more accessories, see <i>axis.com/products/axis-p3905-r-mk-iii#accessories</i>
System tools	AXIS Site Designer, AXIS Device Manager, product selector, accessory selector, lens calculator Available at <i>axis.com</i>
Languages	English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Polish, Traditional Chinese, Dutch, Czech, Swedish, Finnish, Turkish, Thai, Vietnamese
Warranty	5-year warranty, see axis.com/warranty
Part numbers	Available at axis.com/products/axis-p3905-r-mk-iii#part- numbers
Sustainability	
Substance control	PVC free, BFR/CFR free 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 <i>axis.com/partner</i> .
Materials	Recycled aluminum: 95% Screened for conflict minerals in accordance with OECD guidelines To read more about sustainability at Axis, go to axis.com/about-axis/sustainability
Environmental responsibility	axis.com/environmental-responsibility Axis Communications is a signatory of the UN Global Compact, read more at unglobalcompact.org
a. We recommend o	a maximum of 3 unique video streams per camera or channel, for

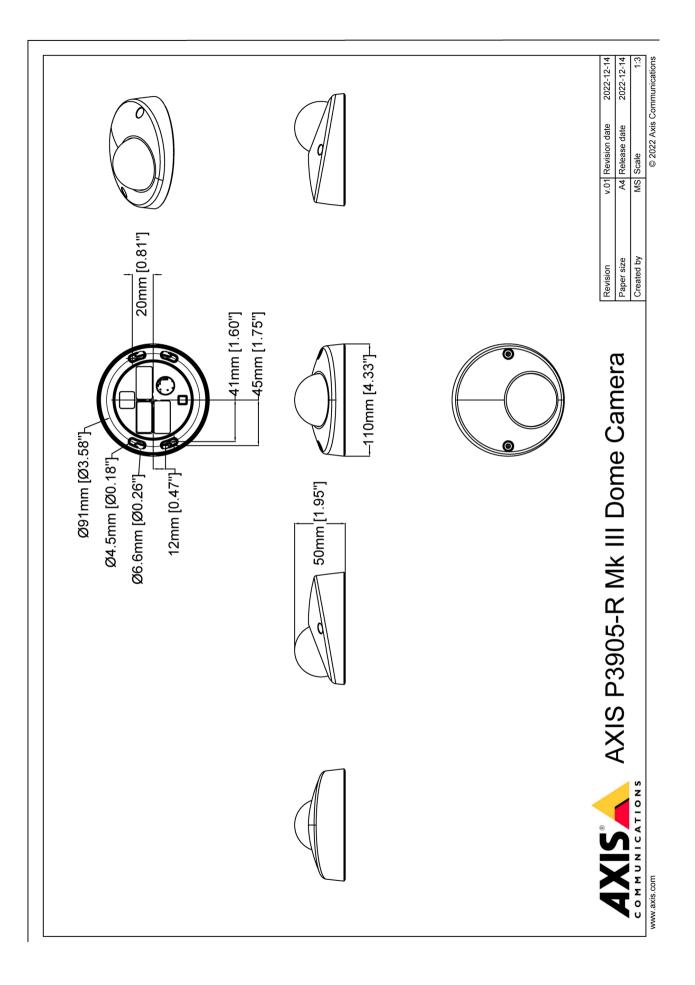
We recommend a maximum of 3 unique video streams per camera or channel, for optimized user experience, network bandwidth, and storage utilization. A unique video stream can be served to many video clients in the network using multicast or unicast transport method via built-in stream reuse functionality.
For detection of tampering attempts in static and non-crowded scenes.
ASTM E162 and the non-flaming parts of ASTM E662

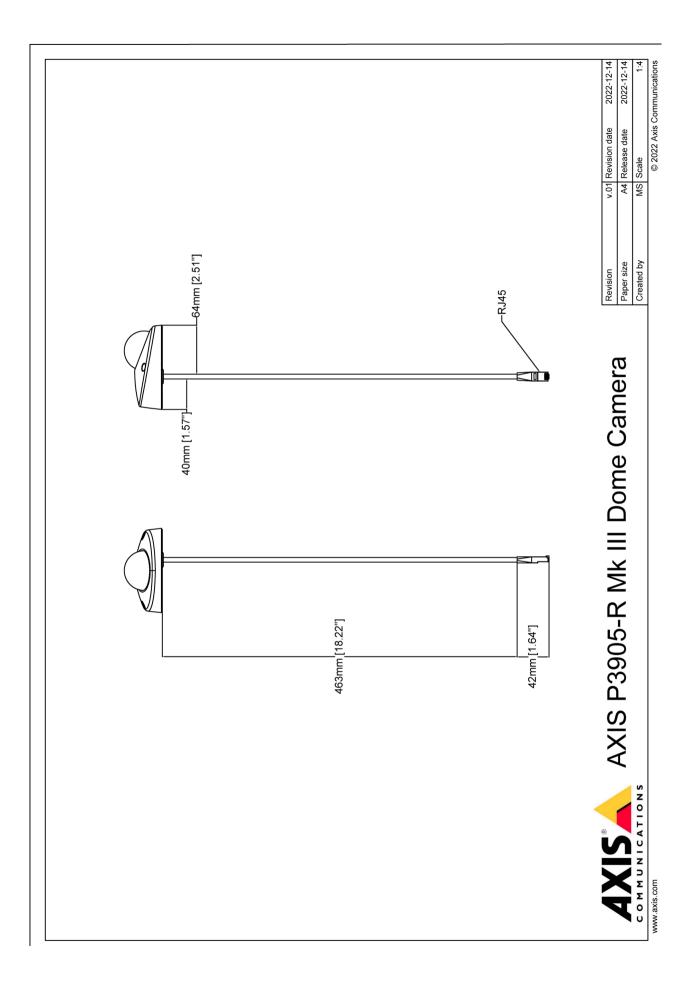
Detect, Observe, Recognize, Identify (DORI)

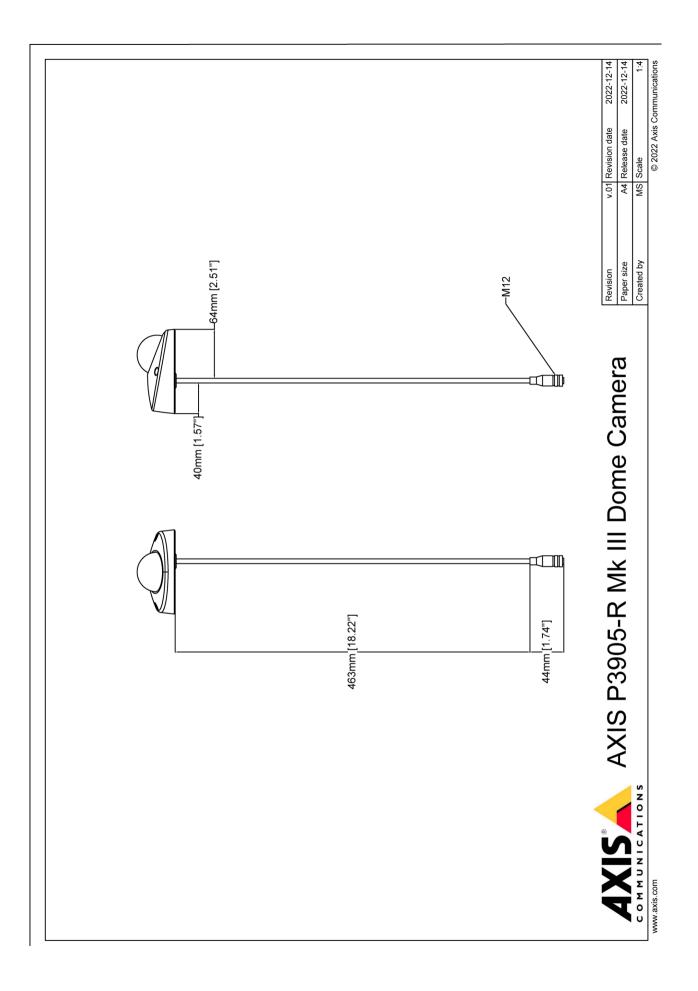
3.6 mm lens	DORI definition	Distance
Detect	25 px/m (8 px/ft)	50.6 m (166.0 ft)
Observe	63 px/m (19 px/ft)	20.1 m (65.9 ft)
Recognize	125 px/m (38 px/ft)	10.1 m (33.1 ft)
Identify	250 px/m (76 px/ft)	5.1 m (16.7 ft)

2.8 mm lens	DORI definition	Distance
Detect	25 px/m (8 px/ft)	21.1 m (69.2 ft)
Observe	63 px/m (19 px/ft)	7.4 m (24.3 ft)
Recognize	125 px/m (38 px/ft)	4.2 m (13.8 ft)
Identify	250 px/m (76 px/ft)	2.1 m (6.9 ft)

Axis calculates the DORI values using pixel densities for different use cases as recommended by the EN-62676-4 standard. The calculations use the center of the image as the reference point and consider lens distortion. The possibility to recognize or identify a person or object depends on factors such as object motion, video compression, lighting conditions, and camera focus. Use margins when planning. The pixel density varies across the image, and the calculated values can differ from the distances in the real world.







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*.

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.

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 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.

For more information, see *axis.com/glossary*

