AXIS 209FD-R/209MFD-R Network Cameras

Compact, rugged network cameras for mobile video surveillance.

> Flat design

> Progressive scan and megapixel

> Vibration, humidity and dust resistant

> Active tampering alarm

> Power over Ethernet

AXIS 209FD-R/209MFD-R are compact, rugged network cameras designed specifically to withstand tough environments. Their tamper-resistant casing stands up to the vibrations, humidity, dust and fluctuating temperatures found e.g. in buses and trains.

AXIS 209FD-R/209MFD-R are palm-sized discreet network cameras specifically designed for mass transit vehicles. The flat, tamper-resistant casing makes them ideal for installation e.g. in buses or trains.

Progressive scan technology provides full resolution images of moving objects, with no distortion. AXIS 209FD-R provides VGA resolution, whereas AXIS 209MFD-R is a 1.3 megapixel network camera.

The rugged design is adapted for handling the vibrations, humidity, dust and temperature fluctuations typical for mass transit vehicles.

AXIS 209FD-R/209MFD-R feature intelligent capabilities such as the active tampering alarm, which offers effective casing protection by sending an alarm when tampering attempts like blocking or spray-painting are detected.

Power over Ethernet (IEEE 802.3af) supplies power to the cameras via the network, eliminating the need for power cables and reducing installation costs.
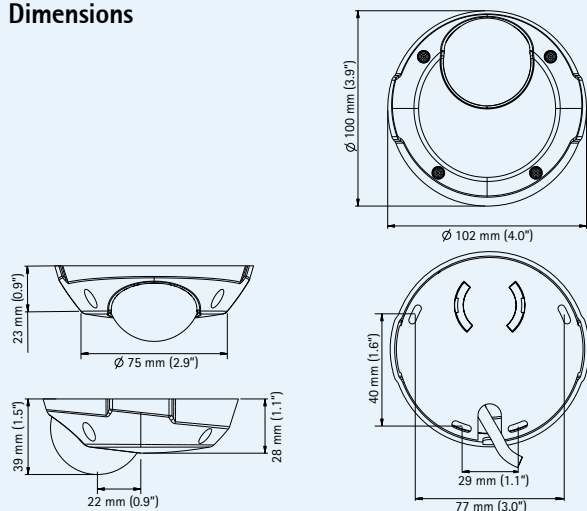
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Technical specifications – AXIS 209FD-R/209MFD-R Network Cameras

Camera	
Models	**AXIS 209FD-R**: VGA **AXIS 209MFD-R**: Megapixel Both are available in two variants with different connectors: – Rugged RJ-45 connector – Rugged M12 connector
Image sensor	**AXIS 209FD-R**: 1/4" Progressive Scan RGB CMOS VGA **AXIS 209MFD-R**: 1/3" Progressive Scan RGB CMOS 1.3 Megapixel
Lens	**AXIS 209FD-R**: 3.0 mm, F2.0, fixed iris , horizontal angle of view: 66° **AXIS 209MFD-R**: 3.6 mm, F1.8, fixed iris , horizontal angle of view: 74°
Minimum illumination	**AXIS 209FD-R**: 1.5 - 10000 lux, F2.0 **AXIS 209MFD-R**: 3 - 10000 lux, F1.8
Shutter time	**AXIS 209FD**: 1/10000 s to 1/4 s **AXIS 209MFD**: 1/15000 s to 1/4 s
Camera angle adjustment	Pan ±10°, tilt 0 - 90°, rotation ±10°
Pan/Tilt/Zoom	**AXIS 209MFD-R**: Digital PTZ, preset positions, guard tour

Video	
Video compression	MPEG-4 Part 2 (ISO/IEC 14496-2) Motion JPEG
Resolutions	**AXIS 209FD-R**: 160x120 - 640x480 **AXIS 209MFD-R**: 160x90 - 1280x1024
Frame rate MPEG-4	**AXIS 209FD-R**: Up to 30 fps in all resolutions **AXIS 209MFD-R**: Up to 8 fps in max resolution, higher frame rate in lower resolutions
Frame rate Motion JPEG	**AXIS 209FD-R**: Up to 30 fps in in all resolutions **AXIS 209MFD-R**: Up to 12 fps in max resolution, higher frame rate in lower resolutions
Video streaming	Simultaneous Motion JPEG and MPEG-4 Controllable frame rate and bandwidth VBR/CBR MPEG-4
Image settings	Compression, color, brightness, sharpness, white balance, exposure control Text and image overlay Privacy mask

Network	
Security	Password protection, IP address filtering, HTTPS encryption
Supported protocols	IPv4/v6, HTTP, HTTPS, QoS Layer 3 DiffServ, FTP, SMTP, Bonjour, UPnP, SNMPv1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP, ARP, SOCKS

System integration	
Application Programming Interface	Open API for software integration, including VAPIX® from Axis Communications available at www.axis.com
Intelligent video	Video motion detection, active tampering alarm
Alarm triggers	Intelligent video , temperature
Alarm events	File upload via FTP, HTTP and email Notification via email, HTTP and TCP
Video buffer	**AXIS 209FD-R**: 9 MB pre- and post alarm **AXIS 209MFD-R**: 20 MB pre- and post alarm

General	
Casing	Tamper-proof mounting IP66-rated
Processors and memory	ARTPEC-A **AXIS 209FD-R**: 32 MB RAM, 8 MB Flash **AXIS 209MFD-R**: 64 MB RAM, 8 MB Flash
Power	Power over Ethernet IEEE 802.3af Class 1
Connectors	RJ-45 variants: Rugged, female RJ-45 connector M12 variants: Rugged, male D-coded M12 connector
Operating conditions	-20 - 50 °C (-4 - 122 °F) Humidity 20 - 80% RH (non-condensing)
Storage conditions	-30 – 70 ºC (-22 – 158 ºF)
Approvals	Automotive environment (CE), EN 55022 Class B, EN 61000-3-2, EN 61000-3-3, EN 55024, EN 55025, FCC Part 15, Subpart B Class B, ICES-003 Class B, VCCI Class B, C-tick AS/NZS CISPR 22, MIC Class A, EN 60950-1, IP66 EN 50155: vibration, mechanical shock and temperature ISO 16750-3: vibration
Weight	180 g (0.40 lb)
Included accessories	AXIS PoE Midspan 1-port (RJ-45 variants only), key for tamper-proof screws, Installation Guide, CD with installation tool, recording software and User's Manual, Windows decoder 1-user license

More information is available at www.axis.com

Dimensions

Ø 100 mm (3.9")
Ø 102 mm (4.0")
23 mm (0.9")
Ø 75 mm (2.9")
39 mm (1.5")
28 mm (1.1")
22 mm (0.9")
40 mm (1.6")
29 mm (1.1")
77 mm (3.0")

Connector variants

AXIS 209FD-R/209MFD-R Network Cameras are available in two variants with different connectors.

M12 connector

RJ-45 connector

Optional accessories

For information on AXIS Camera Station and video management software from Axis' Application Development Partners, see www.axis.com/products/video/software/

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