



www.NVR-PRO.com

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 and AXIS 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, for example, in buses and trains.

AXIS 209FD-R and AXIS 209MFD-R are palm-sized, discreet network cameras specifically designed for mass transit vehicles. The flat, tamper-resistant casing makes them ideal for installation in, for example, 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 and AXIS 209MFD-R feature intelligent capabilities such as the active tampering alarm, which offers effective casing protection by sending an alarm when tampering attempts such as 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.



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°
Light sensitivity	AXIS 209FD-R : 1.5 - 10000 lux, F2.0 AXIS 209MFD-R : 3 - 10000 lux, F1.8
Shutter time	AXIS 209FD-R : 1/10000 s to 1/4 s AXIS 209MFD-R : 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 all resolutions AXIS 209MFD-R : Up to 12 fps in max resolution, higher frame rate in lower resolutions
Video streaming	Simultaneous MPEG-4 and Motion JPEG 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

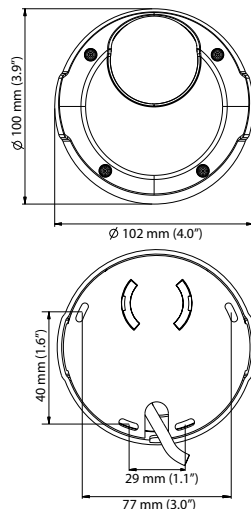
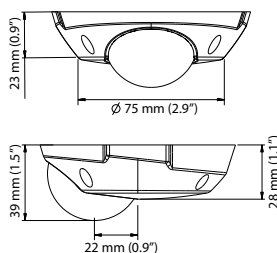
Network	
Security	Password protection, IP address filtering, HTTPS encryption
Supported protocols	IPv4/v6, HTTP, HTTPS, QoS Layer 3 DiffServ, FTP, SMTP, Bonjour, UPnP, SNMPv1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP, ARP, SOCKS
System integration	
Application Programming 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	IP66-rated, rugged casing
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 °C (-22 - 158 °F)
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



www.NVR-PRO.com

Toll Free: 1.888.919.2263
International: +1.845.343.4077
Fax: +1.845.343.4299

Dimensions



More information is available at www.axis.com

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/