

## **AXIS M31–R Network Camera Series**

## Compact, rugged network cameras for mobile video surveillance.



- > Flat, rugged design
- > Progressive scan and megapixel/HDTV
- > Multiple H.264 and Motion JPEG streams
- > Quick and reliable installation
- Active tampering alarm

The high-performance AXIS M31-R Network Cameras are specially designed for video surveillance in buses, trains, subway cars and emergency vehicles.

The rugged and discreet AXIS M31-R cameras have protection against dust and water, and can withstand tough conditions such as vibrations, shocks, bumps and temperature fluctuations. In addition, the cameras' active tampering alarm can detect tampering attempts such as blocking or spray-painting.

The series includes AXIS M3113-R cameras with SVGA resolution and AXIS M3114-R cameras, which can stream 1 megapixel, as well as HDTV 720p, at full frame rate.

The cameras are specially adapted to respond quickly to changes in light levels, ensuring that high image quality is maintained. In addition, the use of progressive scan enables the cameras to show moving objects without distortion. AXIS M31-R cameras can provide multiple H.264 and Motion JPEG streams simultaneously. H.264 compression greatly optimizes bandwidth and storage without compromising image quality.

The cameras are designed for quick and reliable installation. The desired field of view and a leveled image can be easily achieved by using the supplied lens tool to direct and rotate the ball that holds the lens and image sensor. The tool can also be used to exchange and focus the lens when a lens with a different angle of view is required. The cameras provide a pixel counter for verifying that the pixel resolution of an object meets specific requirements. Power over Ethernet support further simplifies installation since only one cable is needed for carrying power and video.



## Technical specifications – AXIS M31–R Network Camera Series

Camera	
Models	AXIS M3113-R: SVGA AXIS M3114-R: 1 MP/HDTV 720p Both are available in two variants with different connectors: - Rugged, female RJ-45 connector - Rugged, female M12 connector
Image sensor	1/4" progressive scan RGB CMOS
Lens	AXIS M3113-R: 2.9 mm: 66° view*, F2.0, M12 mount AXIS M3114-R: 2.9 mm: 80° view*, F2.0, M12 mount *horizontal angle of view
Light sensitivity	1 - 100000 lux, F2.0
Shutter time	1/24 500 s to 1/6 s
Camera angle adjustment	Pan $\pm$ 30°, tilt 0-90°, rotation $\pm$ 180°
Video	
Video compression	H.264 (MPEG-4 Part 10/AVC) Motion JPEG
Resolutions	AXIS M3113-R: 800x600 to 160x90 AXIS M3114-R: 1280x800* to 160x90 *1440x900 (1.3 MP) scaled resolution available via VAPIX®
Frame rate	30 fps in all resolutions
Video streaming	Multiple, individually configurable streams in H.264 and Motion JPEG Controllable frame rate and bandwidth VBR/CBR H.264
Pan/Tilt/Zoom	Digital PTZ, preset positions, guard tour
Image settings	Compression, color, brightness, sharpness, contrast, white balance, exposure control, exposure zones, backlight compensation, wide dynamic range – dynamic contrast, fine tuning of behavior at low light, mirroring of images Rotation: 0°, 90°, 180°, 270°, including Corridor Format <sup>™</sup> Text and image overlay, privacy mask
Network	
Security	Password protection, IP address filtering, HTTPS** encryption, digest authentication, user access log
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 meegiation	
Application Programming Interface	Open API for software integration, including VAPIX® and AXIS Camera Application Platform from Axis Communications; specifications available at www.axis.com Support for AXIS Video Hosting System (AVHS) with One-Click Camera connection
Intelligent video	Video motion detection, active tampering alarm Support for AXIS Camera Application Platform enabling installation of additional applications
Alarm triggers	Intelligent video
Alarm events	File upload via FTP, HTTP and email Notification via email, HTTP and TCP
Video buffer	25 MB pre- and post-alarm
Installation aids in software	Pixel counter
General	
Casing	IP66-, IP67- and NEMA 4X-rated, IK08 impact-resistant aluminum/plastic casing with integrated dehumidifying membrane and captive screws
Processors and memory	ARTPEC-3, 128 MB RAM, 128 MB Flash
Power	Power over Ethernet IEEE 802.3af Class 1, max. 3.2 W
Connectors	RJ-45 variants: rugged, female RJ-45 10BASE-T/100BASE-TX M12 variants: rugged, female, D-coded M12 connector with rotatable coupling nut All connectors support Power over Ethernet
Operating conditions	-25 °C to 50 °C (-13 °F to 122 °F)
Approvals	EN 55022 Class B, EN 60950-22, EN 61000-3-2, EN 61000-3-3, EN 61000-6-1, EN 61000-6-2, EN 55024, ICES-003 Class B, FCC Part 15 Subpart B Class B, VCCI Class B, ECE R10 rev.03 (E approval) C-tick AS/NZS CISPR 22, EN 60950-1, EN 50121, IEC 60721-3-4 Class 4K3 (temperature range -25°C to 50°C) EN 50155 Class T3 (vibration, shock, bump, temperature) ISO 16750-3 (vibration), IEC 62262 Class IK08 IEC 60529 IP66/IP67, NEMA 250 Type 4X
Weight	250 g (0.55 lb.)
Included accessories	Lens tool, top cover tool, drill hole template, mounting adapters, Installation Guide, CD with installation tools, recording software and User's Manual, Windows decoder 1-user license

\*\*This product includes software developed by the OpenSSL Project for use in the





OpenSSL Toolkit. (www.openssl.org)



More information available at www.axis.com





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