

## 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 that 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. The use of progressive scan also produces clearer images of moving objects.

AXIS M31-R cameras can send 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.

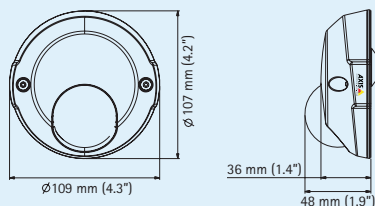


## Technical specifications – AXIS M31-R Network Camera Series

Camera		System integration	
<b>Models</b>	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	<b>Application Programming Interface</b>	Open API for software integration, including VAPIX® and AXIS Camera Application Platform from Axis Communications; specifications available at <a href="http://www.axis.com">www.axis.com</a> Support for AXIS Video Hosting System (AVHS) with One-Click Camera connection
<b>Image sensor</b>	1/4" progressive scan RGB CMOS	<b>Intelligent video</b>	Video motion detection, active tampering alarm Support for AXIS Camera Application Platform enabling installation of additional applications
<b>Lens</b>	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	<b>Alarm triggers</b>	Intelligent video
<b>Minimum illumination</b>	1 - 100000 lux, F2.0	<b>Alarm events</b>	File upload via FTP, HTTP and email Notification via email, HTTP and TCP
<b>Shutter time</b>	1/24 500 s to 1/6 s	<b>Video buffer</b>	25 MB pre- and post-alarm
<b>Camera angle adjustment</b>	Pan ± 30°, tilt 0-90°, rotation ± 180°	<b>Installation aids in software</b>	Pixel counter
Video		General	
<b>Video compression</b>	H.264 (MPEG-4 Part 10/AVC) Motion JPEG	<b>Casing</b>	Rugged, IP66- and IP67-rated aluminum/plastic casing with integrated dehumidifying membrane and captive screws
<b>Resolutions</b>	AXIS M3113-R: 800x600 to 160x90 AXIS M3114-R: 1280x800 to 160x90	<b>Processors and memory</b>	ARTPEC-3, 128 MB RAM, 128 MB Flash
<b>Frame rate</b>	30 fps in all resolutions	<b>Power</b>	Power over Ethernet IEEE 802.3af Class 1, max. 3.2 W
<b>Video streaming</b>	Multiple, individually configurable streams in H.264 and Motion JPEG Controllable frame rate and bandwidth VBR/CBR H.264	<b>Connectors</b>	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
<b>Pan/Tilt/Zoom</b>	Digital PTZ, preset positions, guard tour	<b>Operating conditions</b>	-20 °C to 50 °C (-4 °F to 122 °F)
<b>Image settings</b>	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° Text and image overlay, privacy mask	<b>Approvals</b>	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 C-tick AS/NZS CISPR 22, EN 60950-1, EN 50121, IEC 60721-3-4 Class 4K3 (temperature range -20°C to 50°C) EN 50155 Class T3 (vibration, shock, bump, temperature) ISO 16750-3 (vibration), IEC 62262 Class IK08 IP66, IP67, NEMA 250 Type 4X
Network		<b>Weight</b>	250 g (0.55 lb.)
<b>Security</b>	Password protection, IP address filtering, HTTPS** encryption, digest authentication, user access log	<b>Included accessories</b>	Lens tool, drill hole template, mounting adapters, Installation Guide, CD with installation tools, recording software and User's Manual, Windows decoder 1-user license
<b>Supported protocols</b>	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		

\*\*This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. ([www.openssl.org](http://www.openssl.org))

### Dimensions



### Camera connector variants

Rugged, female RJ-45 connector



Rugged, female, D-coded M12 connector with rotatable coupling nut



More information available at [www.axis.com](http://www.axis.com)

### Included accessories (see further details in the table above)

Lens tool



Mounting adapters



For surface cable mounting



For curved surfaces

### Optional accessories

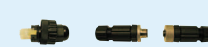
AXIS Q8108-R  
Network Video Recorder



M12 mount  
lenses



RJ-45/M12 connectors  
(compatible with camera connectors)



AXIS Camera Station and video management software from Axis' partners



AXIS T8412  
Installation Display