

AXIS 209FD-R Network Camera

Compact, rugged network camera for mobile video surveillance



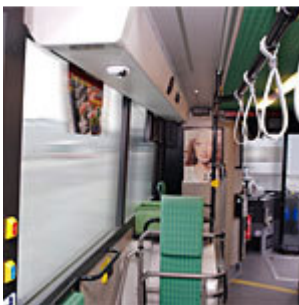
This camera works very well with the NVR4200. It is currently being used throughout China, Germany and Canada. We would love to be the first to use them with the AXIS/NVR4200 team in the USA.

- **Flat design**
- **Progressive scan**
- **Vibration, humidity and dust resistant**
- **Tampering alarm**
- **Power over Ethernet**

For demanding environments

AXIS 209FD-R Network Camera is a compact, rugged network camera designed specifically for the tough environments found in mass transit vehicles. Its durable transparent cover provides excellent protection against dust, humidity and vibrations.

Resistant to vibrations, humidity and dust



AXIS 209FD-R Network Camera is designed to be easy to install, and to remain securely in place over time, withstanding the tough and changing conditions in a bus or train. It ensures a robust construction that can withstand these conditions without premature wear and tear. The rugged casing is built to handle the vibrations and dust typically found in mass transit vehicles. The small built-in heater takes care of any moisture and thereby eliminates condensation on the lens or cover.

Tampering alarm

AXIS 209FD-R features a tampering alarm, an intelligent feature incorporated in the camera, further strengthening the benefits of digital IP-based video. The tampering alarm detects if AXIS 209FD-R is moved, obscured, covered or sprayed.

AV8365DN

8 Megapixel H.264 Day/Night 360° Panoramic IP-camera

AV8365DN (Day/Night)

AV8365DN - HB (Day/Night with Heater & Blower)

Arecont Vision Advantages:

All-in-one H.264 Day/Night SurroundVideo® Solution

- Integrated four 2 megapixel cameras, IR corrected lenses, Day/Night switchers and IP66 dome housing
- Vandal resistant aluminum chassis with 5.5" polycarbonate dome bubble
- Easily adjustable 2-axis camera gimbal with 360° pan and 90° tilt
- Supports both H.264 and MJPEG at full resolutions and full frame rates
- Heater and blower kit versions for cold climate environments
- Hard ceiling mount and Surface mount with optional pendant mount and wall mount
- IP66 weatherproofing standard

+/- 10° tilt Adjustment to Locate Sensor Position

- Four independent sensor position adjustment to meet user requirement

H.264 (MPEG4, Part 10) Compression Standard

- Simultaneous support of both H.264 and MJPEG
- 10x average bandwidth and storage reduction over MJPEG

World's First H.264 Panoramic Megapixel Cameras

- 8 megapixel 360° field of view

Bit Rate Control

- Maintain desired bandwidth and storage size

Real Time Streaming Protocol (RTSP)

- Allows for compatibility with media players such as Apple QuickTime, Windows Media Player, VLC Player, etc.

Superior Low Light Performance

- 1/2" CMOS sensor

High Definition Panoramic 360° Imaging

- No de-warping software required

Unparalleled High Definition Resolution - 1600 x 1200

- Resolution up to 1600(H) x 1200(V) per sensor
- Total resolution: 6400(H) x 1200(V) - (4 x 2 MP)
- Substitute up to twenty-four analog cameras

Fastest MegaPixel Image Rates

- Up to 22fps per channel

Forensic Zooming

- Zoom live or after-event while recording full field of view in HD ... replace PTZ devices

Reduced Overall System Cost

- Less cameras to install, less wiring, no external power (POE), less NVR licensing fees

Other key features:

- Moonlight™ Mode - extended exposure and proprietary noise cancellation
- Up to four regions of interest for simultaneous panoramic and digital PTZ viewing and recording
- Image cropping to discard unnecessary scene and more

The AV8365DN network camera is a part of Arecont Vision's full line of H.264 megapixel cameras. This fully compliant implementation of H.264 (MPEG 4, Part 10) is capable of sustaining over 80 billion operations per second and maintaining full motion progressive scan 1600 x 1200 video at 22 fps. Part of the SurroundVideo® line of cameras, it offers bandwidth and storage efficiency of 10X greater on average over MJPEG counterparts.

H.264 Day/Night SurroundVideo® Series

Learn more about our products at www.arecontvision.com

Model Numbers:

AV8365DN - Day/Night
 AV8365DN-HB - Day/Night w/Heater & Blower

AV8365DN: 360° Field of View

Imaging

- Four 2 megapixel CMOS image sensors
- 1600(H) x 1200(V) pixel array each sensor
- 1/2" optical format
- Bayer mosaic RGB filter
- Minimum illumination of:
 - Color: 0.2 lux @ F2.0
 - Day/Night: 0 lux, IR sensitive
- Dynamic range 61 dB
- Maximum SNR 50 dB
- Moonlight™ mode - extended exposure and proprietary noise cancellation

Full Field of View (FOV) Resolutions

- 1600(H) x 1200(V) x 4 8 megapixel total
- 800(H) x 600 (V) x 4 2 MP total (1/4 resolution)

Data Transmission

- Video frame rate up to:
 - 88 fps @ 800x600
 - 22 fps @ 1600x1200
 - 5.5 fps @ 6400x1200
- Compression type
 - H.264 (MPEG4, Part 10)
 - Motion JPEG
 - 21 levels of quality
- TFTP, HTTP, RTSP, RTP/TCP, RTP/UDP image transmission protocols
- 100Base-T Ethernet Network Interface
- Data rate
 - bit rate control from 100Kbps to 10Mbps
 - bit rate control available for full view, multi-view and archive
 - unthrottled data rate up to 55Mbps
- Multi-streaming: 8 non-identical streams

Programmability

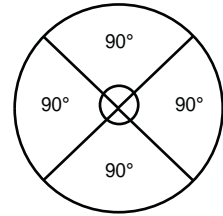
- Auto exposure (AE) and Gain Control (AGC) >120dB
- On-camera motion detection with 64 detection zones
- Programmable backlight compensation
- Auto multi-matrix white balance
- 50/60Hz selectable flicker control
- Electronic pan, tilt, zoom (PTZ)
- Electronic image rotation - upside-down image turn
- Resolution windowing down to 32x32 pixels window
- Programmable motion blurring control for low-light mode
- Moonlight™ mode - extended exposure and proprietary noise cancellation
- Programmable resolution, brightness, saturation, gamma, sharpness, tint
- Up to four regions of interest for simultaneous panoramic and digital PTZ viewing and recording

Electrical

- General purpose opto-coupled input and output
- Power over Ethernet (PoE): PoE 802.3af
- Auxiliary power: 12-48VDC and 24VAC
- Power consumption 9 Watts maximum

Mechanical

- Easily adjustable 2-axis camera gimbal with 360° pan and 90° tilt
- Hard ceiling mount and surface mount embedded
- +/- 10° tilt adjustment to locate sensor position
- Conduit fit 3/4" NPT standard
- Die-cast aluminum chassis with 5.5" vandal resistant polycarbonate dome bubble
- Total Unit dimensions:
 - Ø6.8 x 6.9 in (H), bubble only: Ø5.5 x 3.4 in (H)
 - Ø175 x 176 mm (H), bubble only: Ø140 x 87 mm (H)
 - 2.0 lbs (0.91 kg)



Regulatory Approvals

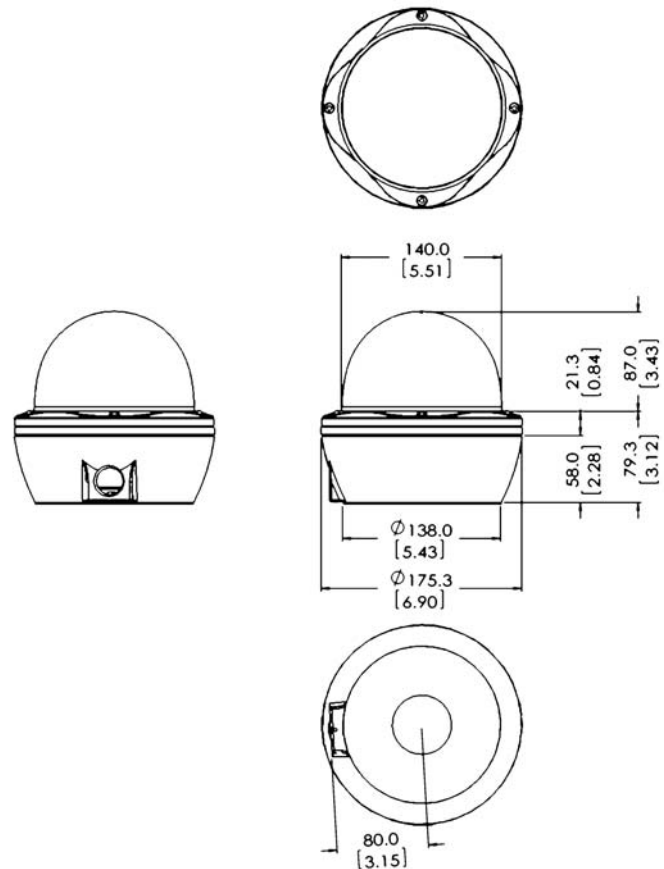
- FCC Class A
- CE and RoHS compliant

Heater & Blower Electrical

- Voltage Input: 12V to 20V DC/24VAC (separate power required)
- Power Output: 11W Max (DC12V); 13W Max (AC24V)
- Heater Switch: On: 17°C (62.6 °F), Off: 30 °C (86 °F)
- Blower Switch: On: 10°C (50°F), Off: 15 °C (59 °F)
- Blower Switch: On: 50°C (122 °F), Off: 45 °C (113°F)

Environmental

- IP66 weatherproofing standard
- Operating temperature:
 - No Heater: 0°C (32 °F) to +55°C (131 °F)
 - With Heater: -20°C (-4 °F) to +55°C (131 °F)
- Storage temperature – 40 °C (-40 °F) to 60 °C (140 °F)
- Humidity 0% to 90% (non condensing)



Accessories:

- SV-WMT - Indoor/Outdoor Wall Mount
- SV-CMT - Indoor/Outdoor Ceiling Mount
- SV-FMA - Indoor/Outdoor Flush Mount Adapter
- MD-PMA - Indoor/Outdoor Pole Mount Adapter
- MD-CRMA - Indoor/Outdoor Corner Mount Adapter
- MV-EBA - Indoor/Outdoor Electrical Box Adapter

Arecont Vision
 megapixel technology...
beyond imagination

Revised on 12.13.10

AV1325

1.3 Megapixel H.264 IP MegaView™ Camera

AV1325IR (IR Illuminator Day/Night)

AV1325DN (Day/Night)



Arecont Vision Advantages:

All-in-one H.264 MegaView™ Solution

- Integrated megapixel camera, 4.5-10mm IR corrected vari-focal lens
- IR Illuminator and easy adjustable 3-axis bracket
- Available in 1.3, 1080p, 3, and 5 MP sensor configurations with IR Illuminator or Day/Night versions
- Vandal resistant aluminum cylindrical (Bullet-style) housing
- IP66 weatherproofing standard
- Supports both H.264 and MJPEG at full resolutions and full frame rates
- Heater and blower for cold climate environments
- Optional corner mount, pole mount, junction box and electrical box adapter

H.264 (MPEG4 Part 10) Compression Standard

- Simultaneous support of both H.264 and MJPEG
- 10x average bandwidth and storage reduction over MJPEG

Plug-n-play

- No need to open camera for installation!
- All lens adjustments, including iris, zoom and focus, are external the camera

IR LED configuration exceeds the market standard

- 48 IR LEDs, 25 meter IR distance and 45 degree IR angle

PSIA Compliance

- Fully compliant with PSIA industry standards

Privacy Mask

- Multiple regions of arbitrary shape to block video
- Supports both in HTTP and TFTP protocols, as well as the on-camera web interface

Extended Motion Detection Grid

- 1024 distinct motion detection zones vs. 64 in previous versions
- Supports both in HTTP and TFTP protocols, as well as the on-camera web interface

Flexible Cropping

- No restriction on any image size cropping

Bit Rate Control

- Maintain desired bandwidth and storage size

Superior Low Light Performance

- 1/2.7" CMOS Sensor

Unparalleled High Definition Resolution - 1280 x1024

- Four times the resolution of IP VGA or analog cameras

Fastest MegaPixel Image Rates

- Up to 32fps in 1.3 Megapixel mode

Reduced Overall System Cost

- Less cameras to install, less wiring, no external power (POE), less NVR licensing fees

Other key features:

- Simultaneous full field of view and Region-of-Interest (ROI)
- On-camera motion detection
- Motorized IR Cut Filter (DN Version) and more

The AV1325 MegaView™ series network camera is part of Arecont Vision's full line of H.264 megapixel cameras. This fully compliant implementation of H.264 (MPEG 4, Part 10) provides full 1280 x 1024 megapixel resolution at full video frame rates of 32 fps. The MegaView™ camera line provides an all-in-one solution with integrated megapixel camera, lens, IR illuminator, and vandal resistant cylindrical enclosure.

Using MegaVideo® technology, these cameras offer bandwidth and storage efficiency of up to 10X on average over traditional megapixel counterparts.



MegaView™ Series

Learn more about our products at www.arecontvision.com

Model Numbers:

AV1325IR - IR Illuminator Day/Night
AV1325DN - Day/Night

Imaging

- 1.3 megapixel CMOS image sensor
- Full resolution: 1280 (H) x 1024 (V) pixel array
- 1/2.7" optical format
- 3 µm pixel pitch
- Bayer mosaic RGB filter
- Minimum illumination of:
 - Color: 0.1 Lux @ F1.4
 - Day/Night: 0 Lux, IR sensitive
- Dynamic range 69 dB
- Maximum SNR 45 dB

Full Field of View (FOV) Resolutions

- 1280 (H)x 1024 (V) 1.3 megapixel
- 640 (H) x 512 (V) 1/4 resolution

Cropped Field of View Resolution

Flexible Cropping - Crop to 2 pixels in H.264 and 1 pixel in JPEG

- 1280x720 HDTV - 720p
- 1024x768 XGA
- 800x600 SVGA
- 704x570 PAL
- 704x480 NTSC
- 640x480 VGA
- 352x288 CIF
- 320x240 SIF

Data Transmission

- Video frame rate up to:
 - 32fps @1280x1024 maximum
- Compression type
 - H.264 (MPEG4, Part 10)
 - Motion JPEG
 - 21 levels of quality
- TFTP, HTTP, RTSP, RTP over TCP, RTP over UDP image transmission protocols
- 100Base-T Ethernet Network Interface
- Data rate:
 - bit rate control from 100Kbps to 10Mbps
 - unthrottled data rate up to 50Mbps
- Multi-streaming: 8 non-identical streams

Programmability

- Privacy mask
- Flexible cropping
- Auto Exposure (AE) and Gain Control (AGC) >120dB
- On-camera real-time motion detection with 1024 detection zones
- Auto backlight compensation
- Auto multi-matrix white balance
- 50/60Hz selectable flicker control
- Electronic pan, tilt, zoom (PTZ)
- Electronic image flip - 180 degree rotation
- Resolution windowing down to 1x1 pixel for JPEG and 2x2 pixels for H.264
- Programmable shutter speed to help control motion blur
- MoonLight™ mode - extended exposure and proprietary noise cancellation
- Programmable resolution, brightness, saturation, gamma, sharpness, tint
- Picture-in-Picture: simultaneous delivery of full field of view and zoomed images
- Bandwidth & storage savings by running at 1/4 resolution

Electrical

- General purpose opto-coupled input and output (DN version only)
- General purpose opto-coupled input (IR version only)
- Power over Ethernet (PoE): PoE 802.3af for camera
- Auxiliary power 12-48V DC, 24V AC for IR illuminator, heater and blower
- Power consumption:
 - 4.9 Watts maximum (DN version)
 - 7.9 Watts maximum (IR version)

Heater and Blower Electrical

- Voltage Input: 12V to 48V DC or 24V AC (separate power required)
- Power Output:
 - 10W Max (DC12V)
 - 28.8 W Max (AC24V)
- Switch: On: 4C° (39.2 °F), Off: 7°C (44.6 °F)

Regulatory Approvals

- FCC, CE, RoHS

Industry standard

- PSIA compliance

Environmental

- IP66 weatherproof standard
- Operating temperature -30°C (-22 °F) to +55°C (131 °F)
- Storage temperature -60°C (-76 °F) to +55°C (131 °F)
- Humidity 0% to 90% (non-condensing)

IR Illuminator

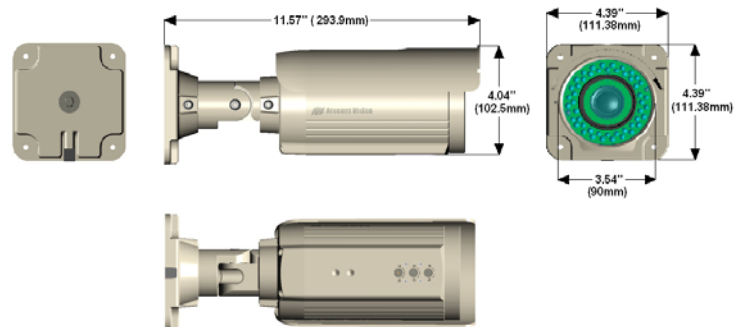
- Voltage Input: 12V to 48V DC or 24V AC (separate power required)
- 48 pcs 850nm LEDs
- 25 meter IR distance (max)
- 45° IR angle
- 3 watts power consumption

Mechanical

- Easily adjustable 3-axis bracket
- Vandal resistant aluminum cylindrical (Bullet-style) housing
- External lens adjustment including zoom, iris and focus
- 4"W (102 mm) x 4.3"H (111 mm) x 11.5"D (293mm)
- 4.4 lbs (2 kg)

Lens

- 4.5 - 10 mm vari-focal lens with IR corrected
 - Max Aperture: F1.6
 - Horizontal F.O.V. = 22°-48°



Accessories:

- MV-EBA - Indoor/Outdoor Electrical Box Adapter
- MD-PMA - Indoor/Outdoor Pole Mount Adapter
- MD-CRMA - Indoor/Outdoor Corner Mount Adapter

