

AV3135

Arecont Vision
megapixel technology...
beyond imagination

3/1.3 Megapixel H.264 IP MegaVideo® camera

AV3135 (Day/Night)



H.264 Dual Sensor Camera

Arecont Vision Advantages:

World's First Full Line of H.264 Megapixel Cameras

- 1.3 to 10 megapixels with no frame rate reduction

H.264 (MPEG4 Part 10) Compression Standard

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

Multi-Streaming

- Up to 8 concurrent non-identical streams with different frame rates, bit rates, resolutions and picture quality

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" color and monochrome CMOS sensors

Unparalleled High Definition Resolution - 2048x1536

- Ten times the resolution of IP VGA or analog cameras

Dual Sensor

- 1.3 MP B/W and 3 MP Color

Fastest MegaPixel Image Rates

- Up to 15fps/32fps in 3/1.3 megapixel modes

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

Cost Efficiency

- Comparable cost to IP VGA & analog cameras

Full or 1/4 Resolution

- Can be selected for either live viewing or archiving purposes

Other key features:

- Simultaneous full field of view and Region-of-Interest (ROI)
- Image cropping allows streaming of full density partial images
- On-camera motion detection

AV3135 network camera is a unique dual sensor Day/Night camera solution and is a part of Arecont Vision's full line of H.264 megapixel cameras. This full motion progressive scan camera delivers up to 15fps in color (3MP) mode and 32fps in B&W (1.3MP) mode. Using massively-parallel MegaVideo® image processing architecture, AV3135 is capable of sustaining over 80 billion operations per second with unparalleled resolution performance and value. Part of the MegaVideo® line of cameras, it offers bandwidth and storage efficiency of 10X greater on average over traditional megapixel counterparts.

Learn more about our products at www.arecontvision.com

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Model Numbers:

AV3135 - Color and Day/Night

Imaging

- 3 megapixel color 2048(H) x 1536(V) - 3.2µm
- 1.3 megapixel monochrome 1280(H) x 1024(V) - 5.2µm
- 1/2" CMOS optical format
- Bayer mosaic RGB filter
- Minimum illumination of:
 - Color: 0.2 Lux @ F1.4
 - B/W: 0 Lux, IR sensitive
- Dynamic Range 61 dB
- Maximum SNR 49 dB

Full Field of View (FOV) Resolutions

- | | |
|-------------------|----------------|
| • 2048(H)x1536(V) | 3 megapixel |
| • 1024(H)x768(V) | 1/4 resolution |
| • 1280(H)x1024(V) | 1.3 megapixel |
| • 640(H)x512(V) | 1/4 resolution |

Cropped Field of View Resolution

- | | |
|-------------|------------|
| • 1920x1200 | WUXGA |
| • 1920x1080 | HDTV-1080p |
| • 1600x1200 | 2 MP |
| • 1280x1024 | 1.3 MP |
| • 1280x720 | HDTV-720p |
| • 1024x768 | XGA |
| • 800x600 | SVGA |
| • 704x570 | PAL |
| • 704x480 | NTSC |
| • 640x480 | VGA |
| • 352x288 | CIF |
| • 320x240 | SIF |

Data Transmission

- Video frame rate up to:
 - 15 fps @ 2048x1536
 - 20 fps @ 1920x1200
 - 22 fps @ 1920x1080
 - 24 fps @ 1600x1200
 - 32 fps @ 1280x1024
- Compression type
 - H.264 (MPEG4, Part 10)
 - Motion JPEG
- Motion JPEG with 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
- Auto backlight compensation
- Auto multi-matrix white balance
- 50/60Hz selectable flicker control
- Electronic pan, tilt, zoom (PTZ)
- Electronic image rotation - 180° flip
- Resolution Windowing Down to 32x32 Pixels Window
- Programmable shutter to minimize motion blurring for low-light mode
- 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
- Power over Ethernet (PoE): PoE 802.3af
- Auxiliary power: 12-48VDC and 24VAC
- Power consumption 4 Watts maximum

Regulatory Approvals

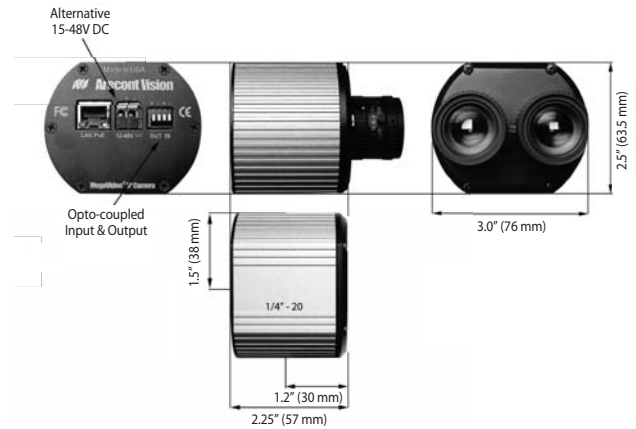
- FCC, CE and RoHS compliant

Environmental

- Operating temperature 0°C (32 °F) to +50°C (122 °F)
- Storage temperature -20°C (-4 °F) to +60°C (140 °F)
- Humidity 0% to 90% (non condensing)

Mechanical

- 3"W (76 mm) x 2.5"H (63.5 mm) x 2.25"D (57mm) (w/o lens)
- 8.6 oz (243 grams) (w/o lens)
- C/CS lens mount



Housing Accessories:

- Dome 4-I - Indoor 4" Vandal Dome
- Dome 4-O - Outdoor 4" Vandal Dome
- Dome 5-I - Indoor 5" Recessed Dome
- HSG1-O-W - Outdoor Environmental Housing w/Heater/Blower

Lenses:

- | | |
|---------|----------|
| MPL4-10 | M0814-MP |
| MPL8-16 | M1214-MP |
| MPL4.0 | M1614-MP |
| MPL6.0 | M2514-MP |
| MPL8.0 | M5018-MP |

* Other megapixel lenses are also available with Arecont Vision's housing options.

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Revised on 12/10/09