

AV2815

Arecont Vision
megapixel technology...
beyond imagination

1080p Compact H.264 IP MegaVideo® Camera

AV2815 (Color) AV2815DN (Day/Night)

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

Compact Package

- 3" (W) x 2.5" (H) x 1.25" (D)
- 45% smaller depth dimension than Arecont Vision's regular camera

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

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

- 1/2.7" CMOS Sensor

Unparalleled High Definition Resolution - 1920x1080

- Six times the resolution of IP VGA or analog cameras

Fastest MegaPixel Image Rates

- Up to 24fps in Full HD 1080p mode

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)
- On-camera motion detection
- Mechanical IR Cut Filter (DN Version) and more

The AV2815 series network camera is part of Arecont Vision's full line of H.264 compact 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 1920x1080 video at 24fps. Part of the MegaVideo® H.264 Compact Series Line of cameras, it offers bandwidth and storage efficiency of 10X greater on average over traditional megapixel counterparts.



MegaVideo® H.264 Compact Series

Learn more about our products at www.arecontvision.com

www.arecontvision.com avsales@arecontvision.com +1.818.937.0700 877.CAMERA.8

Model Numbers:

AV2815 - Color
AV2815DN - Day/Night

Imaging

- 2.07 megapixel CMOS image sensor
- Full resolution: 1920 (H) x 1080 (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

- 1920 (H)x1080(V) HDTV-1080p
- 960(H)x540(V) 1/4 resolution

Cropped Field of View Resolution

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

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

Data Transmission

- Video frame rate up to:
 - 24fps @ 1920x1080 maximum
 - 32fps @ 1280x1024 maximum
- Compression type
 - H.264 (MPEG4, Part 10)
 - Motion JPEG
 - 21 levels of quality
- FTP, 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
- Power over Ethernet (PoE): PoE 802.3af
- Power consumption 4.5 Watts maximum

Regulatory Approvals

- FCC, CE, RoHS

Industry standard

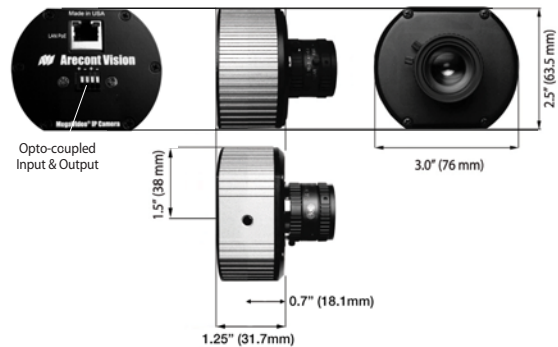
- PSIA compliance

Environmental

- Operating temperature 0°C (32 °F) to +50°C (122 °F)
- Storage temperature -60°C (-76 °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 1.25"D (31.7mm) (w/o lens)
- 5.8 oz (164 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
- MPL4-12
- MPL8-16
- MPL4.0
- MPL6.0
- MPL8.0
- LENS4-13

* Other megapixel lenses are also available.

* Please refer to Arecont Vision lens specification sheet for effective F.O.V. with each camera.

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