AV2805

Full HD 1080p @30fps H.264 IP-camera

Arecont Vision
megapixel technology…
beyond imagination

AV2805 (Color)   AV2805DN (Day/Night)   AV2805-AI (Color Auto-Iris)

H.264 Camera Series

Preliminary

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
- 1/2.7" CMOS Sensor

Unparalleled High Definition Resolution - 1920x1080
- Six times the resolution of IP VGA or analog cameras

Fastest MegaPixel Image Rates
- Up to 30fps 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)
- Image cropping allows streaming of full density partial images
- On-camera motion detection
- Mechanical IR Cut Filter (DN Version) and more

The AV2805 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) is capable of sustaining over 80 billion operations per second and maintaining full motion progressive scan 1920x1080 video at 30fps. Part of the MegaVideo® line of cameras, it offers bandwidth and storage efficiency of 10X greater on average over traditional megapixel counterparts.

**Full HD
1080p**

Model Numbers:

AV2805 - Color
AV2805-AI - Color Auto-Iris
AV2805DN - 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

Cropped Field of View Resolution
- 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:
  - 30fps @ 1920x1080 maximum
- 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 50Mbps
- Multi-streaming: 8 non-identical streams

Programmability
- Auto Exposure (AE) and Gain Control (AGC) >120dB
- On-camera real-time 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 flip - 180 degree rotation
- Resolution windowing down to 32x32 pixels window
- 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
- Auxiliary power 12-48V DC, 24V AC
- Power consumption 5 Watts maximum
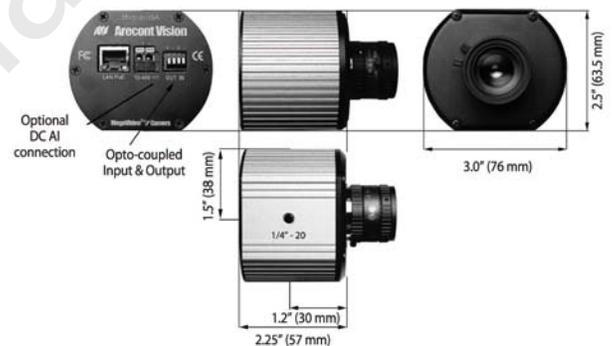- Optional DC AI connection (AV2805 - AI)

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
MPL8-16
MPL4.0
MPL6.0
MPL8.0
LENS4-13
LENS4-10AI

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

Preliminary

![Arecont Vision logo] **Arecont Vision**
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Made in USA

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