AV10005



10 Megapixel/1080p Dual Mode H.264 IP-camera

AV10005 (Color) AV10005DN (Day/Night)



Arecont Vision Advantages:

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

• 1.3 to 10 megapixels with no frame rate reduction

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

• Fully compliant with PSIA industry standards

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

- 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

• No restriction on any image size cropping

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

Maintain desired bandwidth and storage size

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

• 1/2.3" CMOS Sensor

• Thirty two times the resolution of IP VGA or analog cameras

- Up to 6fps in 10 megapixel mode
- Up to 30fps @ 1920x1080

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

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

• Comparable cost to IP VGA & analog cameras

Full or 1,

• Can be selected for either live viewing or archiving purposes

• Binning technique improves low-light performance, increases sensitivity and produces better SNR by combining and averaging pixels.

- 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 AV10005 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 3648 x 2752 video at 6fps. Part of the MegaVideo® line of cameras, it offers bandwidth and storage efficiency of 10X greater on average over traditional megapixel counterparts.











Model Numbers:

AV10005 - Color AV10005DN - Day/Night

- 10 megapixel CMOS image sensor
- Binned Mode (2x2): 2.5M to improve low light performance
- Maximum resolutions:
 - Mode 1: 3648 (H) x 2752 (V)
 - Mode 2: 1920 (H) x 1080 (V)
- 1/2.3" optical format
- 1.67 µm pixel pitch
- · Bayer mosaic RGB filter
- · Minimum illumination of:
 - · Color (non-binned): 0.6 Lux @ F1.4
 - Color (binned): 0.15 Lux @ F1.4
 - · Day/Night: 0 Lux, IR sensitive
- Dynamic range 57.2 dB
- Maximum SNR 40 dB

Full Field of View (FOV) Resolutions

• 3648 (H)x2752(V) 10 megapixel • 1920 (H)x1080(V) HDTV-1080p • 1824(H)x1376(V) 2.5MP

Cropped Field of View Resolution

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

• 2944x1920 5MP • 2560x1600 WQXGA • 2048x1536 3MP • 1920x1200 WUXGA • 1920x1080 HDTV - 1080p • 1600x1200 2MP 1.3MP • 1280x1024 • 1280x720 HDTV - 720p • 1024x768 XGA . 800x600 **SVGA** • 704x570 PAI • 704x480 NTSC • 640x480 VGA • 352x288 CIF • 320x240

Data Transmission

- · Video frame rate up to: • 6fps @ 3648x2752
 - 11fps @ 2944x1920
 - 13fps @ 2560x1600
 - 18fps @ 2048x1536 • 27fps @ 1600x1200
 - 36fps @ 1280x1024
- 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

• Video frame rate in binned mode up to:

• 30fps @ 1920x1080

• 25fps @ 1824x1376

• 41fps @ 1472x960

• 54fps @ 1280x800

• 57fps @ 1024x768

• 60fps @ 800x600

- · unthrottled data rate up to 70Mbps
- 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 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 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
- $\bullet \ Programmable \ resolution, brightness, saturation, \ gamma, sharpness, tint$
- 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

Regulatory Approvals

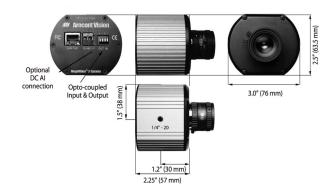
• FCC, cULus, CE and RoHS compliant

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



Revised on 2.11.11 Made in USA