

AV10005

Arecont Vision
megapixel technology...
beyond imagination

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 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

- 1/2.3" CMOS Sensor

Unparalleled High Definition Resolution - 3648 x 2752

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

Fastest MegaPixel Image Rates

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

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

Binning

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

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 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 5fps. Part of the MegaVideo® line of cameras, it offers bandwidth and storage efficiency of 10X greater on average over traditional megapixel counterparts.

Dual Mode
10₈₀MP

H.264 Camera Series

Model Numbers:

AV10005 - Color
AV10005DN - Day/Night

Imaging

- 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

- 2944x1920 5MP
- 2560x1600 WQXGA
- 2048x1536 3MP
- 1920x1200 WUXGA
- 1920x1080 HDTV - 1080p
- 1600x1200 2MP
- 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:
 - 6fps @ 3648x2752
 - 11fps @ 2944x1920
 - 13fps @ 2560x1600
 - 18fps @ 2048x1536
 - 27fps @ 1600x1200
 - 36fps @ 1280x1024
- Video frame rate in binned mode up to:
 - 30fps @ 1920x1080
 - 25fps @ 1824x1376
 - 41fps @ 1472x960
 - 54fps @ 1280x800
 - 57fps @ 1024x768
 - 60fps @ 800x600
- 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 70Mbps
- 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

Regulatory Approvals

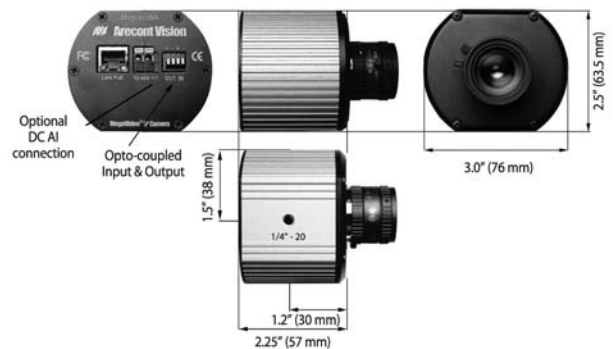
- FCC, CE and RoHS compliant

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