AV1305

1.3 Megapixel IP-camera

AV1305 (Color)   AV1305DN (Day/Night)   AV1305-AI (Color Auto-Iris)

H.264 camera series

Arecont Vision Advantages:

World's First Full Line of H.264 Megapixel Cameras
• 1.3 to 5 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" CMOS Sensor

Unparalleled High Definition Resolution - 1280x1024
• Four times the resolution of IP VGA or analog cameras

Fastest MegaPixel Image Rates
• Up to 30fps in 1.3 megapixel 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
• Motorized IR Cut Filter with focus shift correction (DN Version) and more

The AV1305 series network camera is part of Arecont Vision's full line of H.264 megapixel cameras. This fully compliant implementation of H.264 (MJPEG, Part 10) is capable of sustaining over 80 billion operations per second and maintaining full motion progressive scan 1280 x 1024 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.

Model Numbers:
AV1305 - Color
AV1305-AI - Color Auto-Iris
AV1305DN - Day/Night

Imaging
- 1.3 megapixel CMOS image sensor
- 1280(H) x 1024(V) pixel array
- 1/2" optical format
- Bayer mosaic RGB filter
- Minimum illumination of:
    - Color: 0.1 Lux @ F1.4
    - Day/Night: 0 Lux, IR sensitive
- Dynamic range 60 dB
- Maximum SNR 45 dB

Full Field of View (FOV) Resolutions
- 1280x1024 (HxW)   1.3 megapixel
- 640x512 (HxW)   1/4 resolution

Cropped Field of View Resolutions
- 1280x720   HDTV-720p
- 1024x768   XGA
- 800x600   SVGA
- 704x570   PAL
- 704x480   NTSC
- 640x480   VGA
- 352x288   CIF
- 320x240   SIF

Data Transmission
- Data rate
    - up to 55Mbps
    - bit rate control from 100Kbps to 10Mbps
    - bit rate control available for full view, multi view, and archive
- Video frame rate up to:
    - 30 fps @ 1280x1024
- Compression type
    - H.264 (MPEG4, Part 10)
    - Motion JPEG
    - 21 levels of quality
- TFTP, HTTP, RTSP image transmission protocols
- 100Base-T Ethernet Network Interface

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
- Opto-coupled alarm or trigger input, opto-coupled alarm and flash sync output
- Power over Ethernet (PoE): PoE 802.3af
- Power consumption 4 Watts maximum
- Optional DC AI connection (AV1305 - AI)
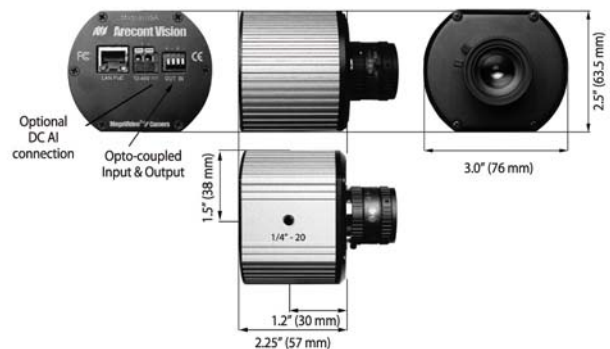
Regulatory Approvals
- FCC and CE compliant

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 5-I - Indoor 5" Recessed Dome

Lenses:
LENS 6.0	M1614-MP	H0514-MP
6mm MP Lens	16mm MP Lens	5mm MP Lens
M0814-MP	M2514-MP	LENS4-10
8mm MP Lens	25mm MP Lens	4-10mm MP Varifocal Lens
M1214-MP	15M5018-MP	LENS4-13
12mm MP Lens	50mm MP Lens	4.5-13mm MP Varifocal IR Lens

* Other megapixel lenses are also available

![Arecont Vision logo]
Arecont Vision
megapixel technology...
beyond imagination

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