

AV1300

1.3 Megapixel IP-camera

Arecont Vision
megapixel technology...
beyond imagination

AV1300M (Color)

AV1300DN (Day/Night)

AV1300-AI (Color Auto-Iris)



MegaVideo® Series

AV1300 Series network camera delivers full motion progressive scan 1280 x 1024 video at 30 fps featuring massively-parallel MegaVideo® image processing architecture capable of sustaining over 6 billion operations per second.

Arecont Vision Advantages:

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

H.264 versions are also available

Learn more about our products at www.arecontvision.com

www.arecontvision.com

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Model Numbers:

- AV1300M - Color
- AV1300-AI - Color Auto-Iris
- AV1300DN - 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
- Video frame rate up to:
 - 30 fps @ 1280x1024
- Motion JPEG with 21 levels of quality
- TFTP and HTTP 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 rotation - 180° flip
- Resolution windowing down to 32x32 pixels
- Programmable shutter to minimize motion blurring for low-light mode
- 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
- DC input: auxiliary 15V-48V DC
- Power consumption 3 Watts maximum
- Optional DC AI connection (AV1300 - AI)

Regulatory Approvals

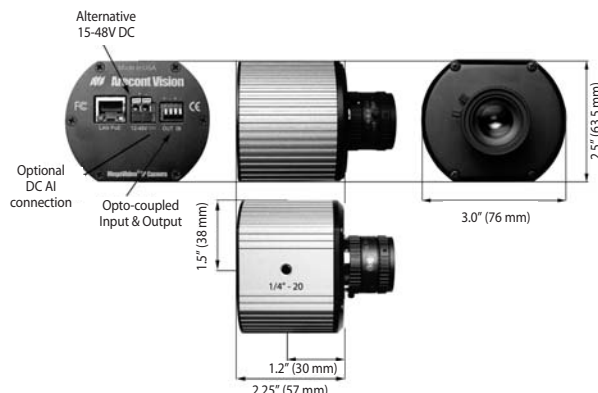
- FCC and CE compliant

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



H.264 versions available:

(see H.264 specification sheets for more information)

- AV1305
- AV1305 - AI
- AV1305DN

Housing Accessories:

- Dome 4-I - Indoor 4" Vandal Dome
- Dome 5-I - Indoor 5" Recessed Dome

Lenses:

| | | |
|--------------------------|----------------------------|---|
| H0514-MP 5mm MP Lens | M1614-MP 16mm MP Lens | LENS4-10 4-10mm MP Varifocal Lens |
| LENS 6.0 6mm MP Lens | M2514-MP 25mm MP Lens | LENS4-13 4.5-13mm MP Varifocal IR Lens |
| M0814-MP 8mm MP Lens | 15M5018-MP 50mm MP Lens | * Other megapixel lenses are also available |
| M1214-MP 12mm MP Lens | | |

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Revised on 06/26/08