

# 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 32fps 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 32fps 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
- Mechanical IR Cut Filter (DN Version) and more

*H.264 versions are also available*

Learn more about our products at [www.arecontvision.com](http://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

- 1280(H)x1024(V) 1.3 megapixel
- 640(H)x512(V) 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:
  - 32fps @ 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

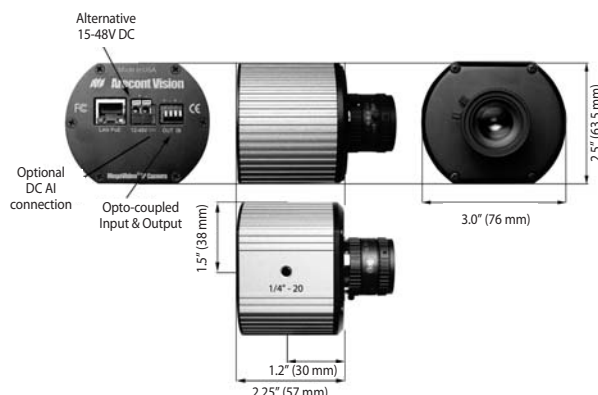
- FCC, CE and RoHS compliant

### 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



### 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		

