



### 1.3Mpixel IP-camera

Sensitive to 0.1 lux @ F 1.4  
Frame Rate 30 fps @ Resolution 1,280 x 1,024

The AV1300M offers the same frame rate as NTSC/PAL and real time high definition digital video surveillance with 4 times the resolution of the best analog surveillance cameras.

Optional: 1.3Mpixel Day/Night camera with automatic IR cut filter

**Megapixel Technology at an Analog Camera Price!**



### 2Mpixel IP-camera

Sensitive to 0.1 lux @ F 1.4  
Frame Rate 24 fps @ Resolution 1,600 x 1,200

The AV2100M offers cinema compatible high frame rates to allow real time high definition digital video surveillance with 6 times the resolution of the best analog surveillance cameras.

Optional: 2Mpixel Day/Night camera with automatic IR cut filter

**Most Versatile Camera**



### 3Mpixel IP-camera

Sensitive to 0.2 lux @ F 1.4  
Frame Rate 20 fps @ Resolution 1,920 x 1,080

The AV3100M offers high frame rates to allow real time high definition digital video surveillance with 10 times the resolution of the best analog surveillance cameras.

Optional: 3Mpixel Day/Night camera with automatic IR cut filter

**Replaces up to 10 Analog Cameras**



### 5Mpixel IP-camera

Sensitive to 0.3 lux @ F 1.4  
Frame Rate 10 fps @ Resolution 2,560 x 1,600

The AV5100M offers high frame rates to allow real time high definition digital video surveillance with 15 times the resolution of the best analog surveillance cameras.

Optional: 5Mpixel Day/Night camera with automatic IR cut filter

**Super High Resolution**



### 3Mpixel / 1.3Mpixel

Sensitive to 0.01 lux @ F 1.4  
Frame Rate 20 fps @ Resolution 1,920 x 1,200

Multi-sensor DayNight™ AV3130M leverages proprietary patent-pending technology and alleviates the cost and sensitivity shortcomings associated with multi-megapixel video surveillance.

**Dual Sensor Sensitivity from 0.01 lux to 100,000 lux**

#### AV1300M / AV1300DN

1.3 Megapixel CMOS Image Sensor  
1280(H) x 1024(V) pixel array  
½" optical format  
4.2 µm pixel pitch  
Sensitivity 0.1 lux @ F1.4  
Frame Rate up to 30 fps @ 1280 x 1024

#### AV2100M / AV2100DN

2 Megapixel CMOS Image Sensor  
1600(H) x 1200(V) Pixel Array  
½" Optical Format  
4.2 µm Pixel Pitch  
Sensitivity 0.1 lux @ F1.4  
Frame Rate up to 24 fps @ 1600 x 1200

#### AV3100M / AV3100DN

3 Megapixel CMOS Image Sensor  
2048(H) x 1536(V) Pixel Array  
½" Optical Format  
3.2 µm Pixel Pitch  
Sensitivity 0.2 lux @ F1.4  
Frame Rate up to 15 fps @ 2048 x 1536

#### AV5100M / AV5100DN

5 Megapixel CMOS Image Sensor  
2592(H) x 1944(V) Pixel Array  
½" Optical Format  
Sensitivity 0.3 lux @ F1.4  
Frame Rate up to 8 fps @ 2595 x 1944

#### AV3130M

½" CMOS Image Sensors:  
3 Mpixel Color 2048(H) x 1536(V)  
1.3 Mpixel Monochrome 1280(H) x 1024(V)  
Sensitivity 0.01 lux @ F1.4  
IR Sensitive  
Dynamic Range 60 dB  
Frame Rate up to 15 fps @ 2048 x 1536

#### Data Transmission

Motion JPEG with 21 levels of quality  
100Base-T Ethernet Network Interface

#### Programmability

Auto Exposure (AE) and Gain Control (AGC) 120dB  
Auto Backlight Compensation  
On-camera Motion Detection with 64 detection zones  
Auto Multi-Matrix White Balance  
Electronic Pan, Tilt, Zoom (PTZ)  
Electronic Image Rotation - up-side down image turn  
Programmable Motion Blurring Control for Low-Light Mode  
MoonLight™ Mode - extreme low light  
Pictures-In-Picture: Simultaneous delivery

#### Electrical

Opto-coupled alarm input/output w/flash sync output  
Power over Ethernet (PoE) or DC Input  
PoE 802.3af / auxiliary 12V - 48V DC  
Power : 3 Watts maximum (AV3130 - 3.5W)

#### Regulatory Approvals

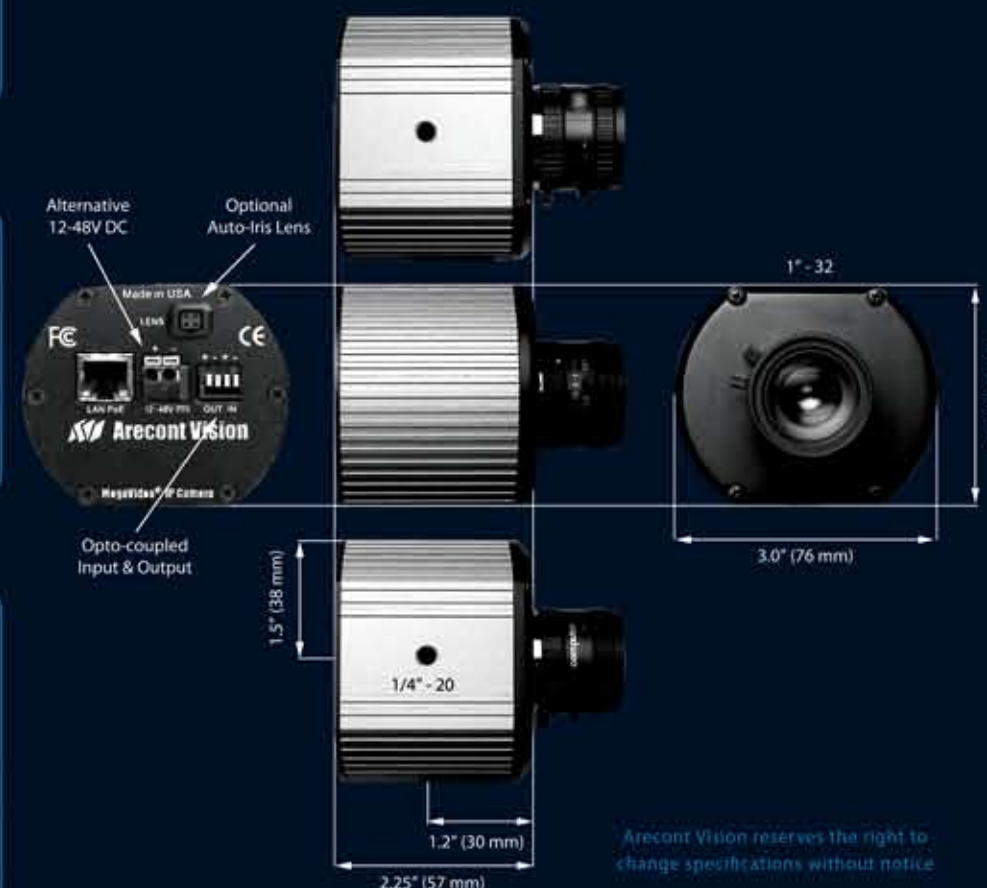
FCC Part 15, Class B  
CE compliant

#### Mechanical

3"W x 2.5"H x 2.25"D (w/o lens)  
8.6 oz or 243 grams (w/o lens)  
C/CS Lens Mount

#### Environmental

Operating Temperature 0°C to +50°C  
Storage Temperature -20°C to +60°C  
Humidity 0% to 90% (non condensing)



Arecont Vision reserves the right to  
change specifications without notice



Unique High-Performance Image Processing Technology

**detailmatters**  
www.arecontvision.com



superior**image**quality

## superior**image**quality



reduced**system**cost



### GREAT EFFICIENCY

High resolution and crystal clear imagery allow Arecont Vision cameras to substitute up to 8 analog cameras; thereby reducing the total camera count.

### REDUCED COST OF INSTALLATION

AV3100M (3Mpixel camera) can replace up to 10 analog cameras. When you reduce the number of cameras, you also reduce on software licenses, enclosures, camera mounts, wiring, and lenses.

### NO EXTERNAL POWER / REDUCED WIRING

Cameras are powered via POE (Power Over Ethernet) 802.3AF "Switch" – no need to run separate power

### IMPRESSIVE FORENSIC ZOOMING

The Arecont Vision surveillance system has the ability to zoom after the event from high resolution digital archives, while providing simultaneous viewing of zoomed in and full field images

### MULTIPLE REGIONS OF INTEREST

MegaVideo® technology enables simultaneous delivery of multiple Regions of Interest of full frame rate over separate video streams.

day**night**megavideo



## day**night**

MegaVideo® Technology Delivers Full Motion HDTV Resolution at NTSC Price

### EXTREMELY WIDE ILLUMINATION RANGE

100,000 lux down to 0.01 lux

### DAY SENSOR (3M)

IR Cut filter for vibrant daytime Colors

### NIGHT SENSOR (1.3M)

Sensitive to low light and IR

### AUTO-SWITCH DAY TO NIGHT

No mechanical moving parts

### SUPERB ILLUMINATION RANGE & SENSITIVITY

While sophisticated conventional cameras improve low-light sensitivity by mechanically removing the IR filter, the AV3130M uses DualBand™ technology which seamlessly switches to an optimized monochrome sensor in low light. This eliminates sensitivity drop-off due to color filters and small pixels while accommodating 10,000,000:1 range of scene illuminations, from bright sunlight to cloudy moonlight

high**resolution**&full**motion**

Arecont Vision network cameras deliver full motion progressive scan 1600 x 1200 video at 24 fps featuring massively-parallel MegaVideo® image processing architecture capable of sustaining over 6 billion operations per second.

### NO MOVING PARTS

Super high resolution MegaVideo® cameras allow up to four efficient zoom windows (Regions of Interest) to be instantly re-positioned across the entire field of view without any moving parts.

These Regions of Interest are delivered as separate video streams simultaneously with the full field of view video or virtual cameras, thus eliminating the trade-off between magnification and area coverage as well as avoiding costly and unreliable mechanical PTZ.

### 24-HOUR SURVEILLANCE WITH DAY/NIGHT FEATURE:

The MegaVideo® single sensor Day/Night feature is especially useful where you need to capture images under highly variable lighting conditions - such as brilliant mid-day sun, and dim night. In daytime illumination, the camera operates in normal color mode providing vivid images, then automatically changes to black and white mode using IR cut filter removal technology when the light fades at dusk. The transition from day to night is fully programmable, or forced to either day or night mode.



easy**systems**integration



### Easy Installation

Arecont Vision cameras are connected like any other device on a network

### Bandwidth Optimization

User-selected viewing resolution allows video stream to be viewed over minimal bandwidth. If an alert situation occurs, image can be switched to high resolution mode

### User Interface

Onboard interface provided for control of Region-of-Interest, image cropping, motion detection, and user access

### Power over Ethernet

Power for the camera is drawn from the network, reducing cabling requirements and installation time.

### Local Area Network

Real-time viewing, archive storage and playback.

### Internet

Real-time viewing/playback with selectable resolution.

efficient**bandwidth**management

Non Arecont Vision camera must deliver the full field of View

12 ips @ 200K = 2.4 Mbps

Competition utilizes 315% more bandwidth compared to Arecont Vision

Efficient bandwidth utilization is supported via user selected Regions of Interest. The reduction of overall storage and bandwidth requirements may be achieved by selecting up to 4 regions of interest with independent control of resolution and compression quality for each of the selected regions



Each Region of Interest can be streamed at varying frame rates if desired.

Full FOV	2 ips	@ 200K	= 400Kbps
Lane 1	12 ips	@ 10K	= 120Kbps
Lane 2	12 ips	@ 10K	= 120Kbps
Lane 3	12 ips	@ 10K	= 120Kbps
	38 ips		= 760Kbps Total

Arecont Vision saves approximately 315% bandwidth compared to competition using Region of Interest streaming. Full Field of View and all three regions are streamed simultaneously.