

AV3125/AV5125

3 or 5 Megapixel H.264 MegaView™ POE IP Camera

Arecont Vision
megapixel technology...
beyond imagination

AV3125IRv1 3MP H.264 Day/Night w/ IR Illuminator
AV3125DNv1 3MP H.264 Day/Night

AV5125IRv1 5MP H.264 Day/Night w/ IR Illuminator
AV5125DNv1 5MP H.264 Day/Night



Arecont Vision Advantages:

- All-in-one MegaView® IR camera Solution
- IP66 and vandal resistant housing
- H.264 (MPEG4 Part 10) Compression Standard
- External lens adjustment (Plug-n-play)
- Easily adjustable 3-axis bracket
- IR LED configuration exceeds the market standard
- Fastest MegaPixel Image Rates
- Superior Low Light Performance
- Unparalleled High Definition Resolution
- PSIA Compliance
- Privacy Mask
- Extended Motion Detection Grid
- Flexible Cropping
- Bit Rate Control
- Multi-Streaming
- Forensic Zooming
- Binning technique improves low-light performance
- True Day/Night Functionality with Removeable IR Cut Filter

The **First** 5MP IR Bullet Style
Camera on the Market

The **Fastest** Frame Rate at 3MP &
5MP Resolution on the Market:
21fps @ 3MP ,14fps @ 5MP

PoE Solution to power camera, IR LEDs
and Fan (**No Auxiliary power required**)

Specification sheets subject to change without notice

Made in USA



Model Numbers:

AV3125IRv1	3MP H.264 Day/Night w/ IR Illuminator
AV3125DNv1	3MP H.264 Day/Night
AV5125IRv1	5MP H.264 Day/Night w/ IR Illuminator
AV5125DNv1	5MP H.264 Day/Night

Imaging

- 3 megapixel effective CMOS image sensor (AV3125)
- 5 megapixel CMOS image sensor (AV5125)
- Full resolution: 2592(H) x 1944(V) pixel array
- 1/2.5" optical format
- 2.2 μ m pixel pitch
- Progressive Scan
- Minimum illumination of:
 - Color (non-binned): 0.3 Lux @ F1.6
 - Color (binned): 0.15 Lux @ F1.6
 - Day/Night: 0 Lux, IR sensitive
- Dynamic range 70.1 dB
- Maximum SNR 44.1 dB

Full Field of View (FOV) Resolution

Model Numbers	Full FOV Resolution	1/4 Resolution
AV3125IR/DN	3MP 2048(H) x 1536(V)	1024(H) x 768(V)
AV5125IR/DN	5MP 2592(H) x 1944(V)	1296(H) x 972(V)

Cropped (FOV) Resolution

Flexible Cropping

- 2560x1600 QWXGA (AV5125)
- 2048x1536 3MP (AV5125)
- 1920x1080 HDTV-1080p
- 1600x1200 2MP
- 1280x1024 1.3MP

Data Transmission

- Video frame rate up to:
 - AV5125:
 - 14fps @ 2592x1944
 - 16.5fps @ 2560x1600
 - AV3125/5125:
 - 21fps @ 2048x1536
 - 31fps @ 1600x1200
 - 29fps @ 1920x1080
 - 41fps @ 1280x1024
- Video frame in binned mode:
 - AV5125:
 - 34fps @ 1286x972
 - 41fps @ 1280x800
 - AV3125/5125:
 - 47fps @ 1024x768
 - 64fps @ 800x600
 - 64fps @ 860x540
 - 64fps @ 640x512
- 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
- bit rate control from 100Kbps to 10Mbps
- Multi-streaming: 8 non-identical streams

Electrical

- General purpose opto-coupled input and output (DN version only)
- General purpose opto-coupled input (IR version only)
- PoE 802.3af for camera, IR illuminator and fan
- Auxiliary power 12-48V DC or 24V AC for camera, IR illuminator and fan
- Power consumption:
 - 5.5 Watts maximum / 9.8 Watts maximum (IR on)

Compliance Information

- Compliance:
 - AV3125DNv1/AV5125DNv1: Class B FCC, Part 15; EN55022 Class B
 - AV3125IRv1/AV5125IRv1: Class A FCC, Part 15; EN55022 Class A
 - EN55024, EN61000-3-2, EN61000-3-3, EN60950-1 RoHS, REACH, IP66 (EN60529)
- Marks: cULus, CE Mark

Industry standard

- PSIA compliance

Programmability

- Privacy mask
- Flexible cropping
- Binned mode
- Lowlight noise filter control
- Shutter Speed = 1ms-500ms
- Auto Exposure (AE) and Gain Control (AGC) >120dB
- On-camera real-time motion detection with 1024 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 1x1 pixel for JPEG and 2x2 pixels for H.264
- 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

Environmental

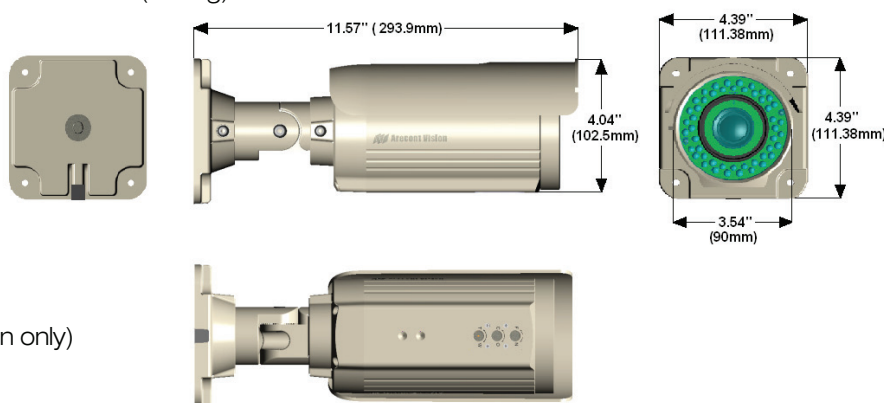
- Operating temperature -40°C (-40 °F) to + 60°C (140 °F)
- Stable image Temperature 0°C (32 °F) to + 50°C (122 °F)
- Storage temperature -30°C (-22 °F) to + 60°C (140 °F)
- Humidity 0% to 90% (non-condensing)

IR Illuminator

- 48 pcs 850nm LEDs / 25 meter IR distance (max) / 45° IR angle
- 3 watts power consumption
- No external power required

Mechanical

- Casing
 - Die-casting aluminum cylindrical (Bullet-style) housing
 - Vandal resistant
 - IP66 weather proof
- External lens adjustment including zoom, iris and focus
- 4"H (102 mm) x 4.3"W (111 mm) x 11.5"D (293mm)
- 3.74 lbs (1.69kg)

**Lens**

- 4.5 - 10 mm vari-focal lens with IR corrected
- Max Aperture: F1.6
- Horizontal F.O.V.
 - AV3125 = 26°-56°
 - AV5125 = 33°-71°

Accessories:

- SV-EBA - Electrical Box Adapter
- MD-PMA - Pole Mount Adapter
- MD-CRMA - Corner Mount Adapter
- SV-JBA - Junction Box Adapter