

# AV1125/AV2125

1.3-Megapixel and Full HD 1080p @ 30fps H.264 MegaView® PoE IP Camera



**AV1125IRv1x** 1.3MP H.264 Day/Night w/IR Illuminator  
**AV1125DNv1x** 1080p H.264 Day/Night

**AV2125IRv1x** 1080p H.264 Day/Night w/IR Illuminator  
**AV2125DNv1x** 1080p H.264 Day/Night



## All-in-One MegaView® IR Camera Solution

The Fast Frame Rate at 1.3MP  
and 1080p Resolution on the  
Market: 42fps @ 1.3MP  
31fps @ 1080p

Class 3 PoE Powers Camera, IR  
LEDs and Fan (No Auxiliary Power Required)

## Arecont Vision Advantages:

- All-in-One MegaView® IR Camera Solution
- IP66 and Vandal-Resistant Housing
- H.264 (MPEG-4, Part 10) Compression Standard
- External Lens Adjustment
- Easily Adjustable 3-Axis Bracket
- IR LED Configuration Exceeds the Market Standard
- Superior Low-Light Performance
- PSIA and ONVIF Conformant
- Privacy Mask
- Extended Motion Detection Grid, 1024 Zones
- Flexible Cropping
- Bit Rate Control
- Multi-Streaming
- Forensic Zooming
- Casino Mode™ on AV2125xx Models (Always Maintains 30fps or Better)
- True Day/Night Functionality with Removeable IR Cut Filter



Specification sheets subject to change without notice.

Made in the USA



## Model Numbers

- AV1125IRv1x** 1.3MP H.264 Day/Night w/IR Illuminator
- AV1125DNv1x** 1.3MP H.264 Day/Night
- AV2125IRv1x** 1080p H.264 Day/Night w/IR Illuminator
- AV2125DNv1x** 1080p H.264 Day/Night

## Imaging

- 1.3-megapixel effective CMOS image sensor (AV1125)
- 2.07 megapixel CMOS image sensor (AV2125)
- 1/2.7" optical format
- 3 µm pixel pitch
- Progressive Scan
- Minimum illumination of:
  - Color: 0.1 Lux @ F1.6
  - Day/Night: 0 Lux, IR sensitive
- Dynamic range 69 dB
- Maximum SNR 45 dB

## Full Field-of-View (FOV) Resolution

Mode Numbers	Full FOV Resolution	1/4 Resolution
<b>AV1125</b>	1.3MP 1280 (H) x 1024 (V)	640 (H) x 512 (V)
<b>AV2125</b>	2.07MP 1920 (H) x 1080 (V)	960 (H) x 540 (V)

## Cropped (FOV) Resolution

### Flexible Cropping

- 1280x1024 1.3MP (AV2125)
- 1280x720 HDTV - 720p
- 640x480 VGA
- 352x288 CIF
- 320x240 SIF

## Data Transmission

- Video frame rate up to:
  - 31fps @ 1920x1080 (AV2125)
  - 42fps @ 1280x1024 (AV1125)
- Compression type
  - H.264 (MPEG-4, Part 10)
  - Motion JPEG
  - 21 levels of quality
- RTSP, RTP/TCP, RTP/UDP (Unicast/Multicast), HTTP, DHCP, TFTP image transmission protocols
- 100Base-T Ethernet Network Interface
- 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 (auxiliary power):
  - 6.41 Watts maximum/10.44 Watts maximum (IR on)

## Compliance Information

- Compliance:
  - AV1125DNv1x/AV2125DNv1x: Class B FCC, Part 15; EN55022 Class B
  - AV1125IRv1x/AV2125IRv1x: Class A FCC, Part 15; EN55022 Class A
  - EN55024, EN61000-3-2, EN61000-3-3, EN60950-1 RoHS, REACH, IP66 (EN60529)
- CE Mark, UL Listed
- WEEE

## Industry Standard

- PSIA and ONVIF Conformant

## Programmability

- Casino Mode™ (AV2125)
- Flexible cropping
- Low-light noise filter control
- Bit rate and bandwidth limitation control
- Shutter Speed = 1ms-500ms
- On-camera real-time motion detection and privacy mask with 1024 detection zones
- Backlight compensation
- Auto multi-matrix white balance
- 50/60Hz selectable flicker control
- Electronic pan, tilt, zoom (PTZ)
- Electronic image flip (180° rotation)
- Programmable shutter speed to help control motion blur
- Programmable resolution, brightness, saturation, gamma, sharpness, tint
- Picture-in-Picture: simultaneous delivery of full field of view and zoomed images

## Environmental

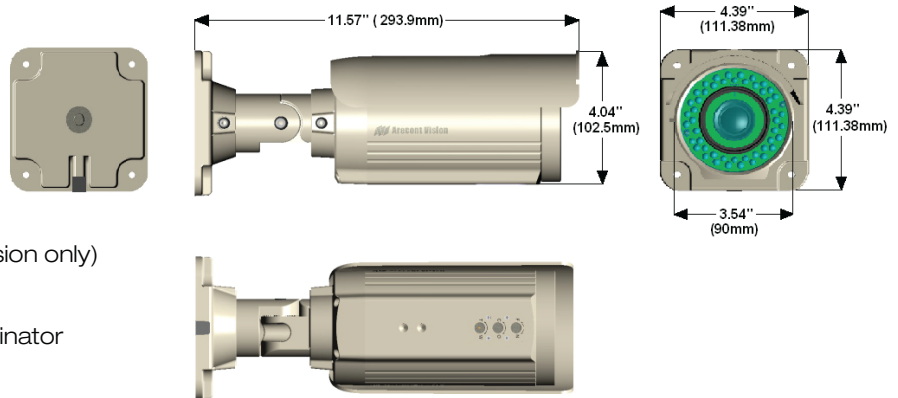
- Operating temperature: -40°C (-40°F) to +50°C (122°F)
- Stable image temperature: 0°C (32°F) to +50°C (122°F)
- Storage temperature: -40°C (-40°F) to +60°C (140°F)
- Humidity 0% to 90% (non-condensing)

## 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 (102mm) x 4.3" W (111mm) x 11.5" D (293mm)
- 3.74lbs (1.69kg)



## Lens

- 4.5-10mm vari-focal lens with IR correction
- Max Aperture: F1.6
- Horizontal F.O.V.
  - AV1125 = 22°-48°
  - AV2125 = 33°-71°

## Accessories

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