

# AV1325

## 1.3 Megapixel H.264 IP MegaView™ Camera

AV1325IR (IR Illuminator Day/Night)

AV1325DN (Day/Night)



### Arecont Vision Advantages:

#### All-in-one H.264 MegaView™ Solution

- Integrated megapixel camera, 4.5-10mm IR corrected vari-focal lens
- IR Illuminator and easy adjustable 3-axis bracket
- Available in 1.3 and 1080p sensor configurations with IR Illuminator or Day/Night versions
- Vandal resistant aluminum cylindrical (Bullet-style) housing
- IP66 weatherproofing standard
- Supports both H.264 and MJPEG at full resolutions and full frame rates
- Heater and blower for cold climate environments
- Optional corner mount, pole mount, junction box and electrical box adapter

#### H.264 (MPEG4 Part 10) Compression Standard

- Simultaneous support of both H.264 and MJPEG
- 10x average bandwidth and storage reduction over MJPEG

#### Plug-n-play

- No need to open camera for installation!
- All lens adjustments, including iris, zoom and focus, are external the camera

#### IR LED configuration exceeds the market standard

- 48 IR LEDs, 25 meter IR distance and 45 degree IR angle

#### PSIA Compliance

- Fully compliant with PSIA industry standards

#### Privacy Mask

- Multiple regions of arbitrary shape to block video
- Supports both in HTTP and TFTP protocols, as well as the on-camera web interface

#### Extended Motion Detection Grid

- 1024 distinct motion detection zones vs. 64 in previous versions
- Supports both in HTTP and TFTP protocols, as well as the on-camera web interface

#### Flexible Cropping

- No restriction on any image size cropping

#### Bit Rate Control

- Maintain desired bandwidth and storage size

#### Superior Low Light Performance

- 1/2.7" CMOS Sensor

#### Unparalleled High Definition Resolution - 1280 x1024

- Four times the resolution of IP VGA or analog cameras

#### Fastest MegaPixel Image Rates

- Up to 32fps in 1.3 Megapixel mode

#### Reduced Overall System Cost

- Less cameras to install, less wiring, no external power (POE), less NVR licensing fees

#### Other key features:

- Simultaneous full field of view and Region-of-Interest (ROI)
- On-camera motion detection
- Motorized IR Cut Filter (DN Version) and more

*The AV1325 MegaView™ series network camera is part of Arecont Vision's full line of H.264 megapixel cameras. This fully compliant implementation of H.264 (MPEG 4, Part 10) provides full 1280 x 1024 megapixel resolution at full video frame rates of 32 fps. The MegaView™ camera line provides an all-in-one solution with integrated megapixel camera, lens, IR illuminator, and vandal resistant cylindrical enclosure.*

*Using MegaVideo® technology, these cameras offer bandwidth and storage efficiency of up to 10X on average over traditional megapixel counterparts.*



MegaView™ Series

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

### Model Numbers:

**AV1325IR - IR Illuminator Day/Night**  
**AV1325DN - Day/Night**

### Imaging

- 1.3 megapixel CMOS image sensor
- Full resolution: 1280 (H) x 1024 (V) pixel array
- 1/2.7" optical format
- 3 µm pixel pitch
- Bayer mosaic RGB filter
- Minimum illumination of:
  - Color: 0.1 Lux @ F1.4
  - Day/Night: 0 Lux, IR sensitive
- Dynamic range 69 dB
- Maximum SNR 45 dB

### Full Field of View (FOV) Resolutions

- 1280 (H)x 1024 (V)      1.3 megapixel
- 640 (H) x 512 (V)        1/4 resolution

### Cropped Field of View Resolution

Flexible Cropping - Crop to 2 pixels in H.264 and 1 pixel in JPEG

- 1280x720      HDTV - 720p
- 1024x768      XGA
- 800x600        SVGA
- 704x570        PAL
- 704x480        NTSC
- 640x480        VGA
- 352x288        CIF
- 320x240        SIF

### Data Transmission

- Video frame rate up to:
  - 32fps @1280x1024 maximum
- Compression type
  - H.264 (MPEG4, Part 10)
  - Motion JPEG
  - 21 levels of quality
- TFTP, HTTP, RTSP, RTP over TCP, RTP over UDP image transmission protocols
- 100Base-T Ethernet Network Interface
- Data rate:
  - bit rate control from 100Kbps to 10Mbps
  - unthrottled data rate up to 50Mbps
- Multi-streaming: 8 non-identical streams

### Programmability

- Privacy mask
- Flexible cropping
- 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

### Electrical

- General purpose opto-coupled input and output ( DN version only)
- General purpose opto-coupled input ( IR version only)
- Power over Ethernet (PoE): PoE 802.3af for camera
- Auxiliary power 12-48V DC, 24V AC for IR illuminator, heater and blower
- Power consumption:
  - 4.9 Watts maximum ( DN version)
  - 7.9 Watts maximum ( IR version)

### Heater and Blower Electrical

- Voltage Input: 12V to 48V DC or 24V AC (separate power required)
- Power Output:
  - 10W Max (DC12V)
  - 28.8 W Max ( AC24V)
- Switch: On: 4C° (39.2 °F), Off: 7°C (44.6 °F)

### Regulatory Approvals

- FCC, CE, RoHS

### Industry standard

- PSIA compliance

### Environmental

- IP66 weatherproof standard
- Operating temperature -30°C (-22 °F) to +55°C (131 °F)
- Storage temperature -60°C (-76 °F) to +55°C (131 °F)
- Humidity 0% to 90% (non-condensing)

### IR Illuminator

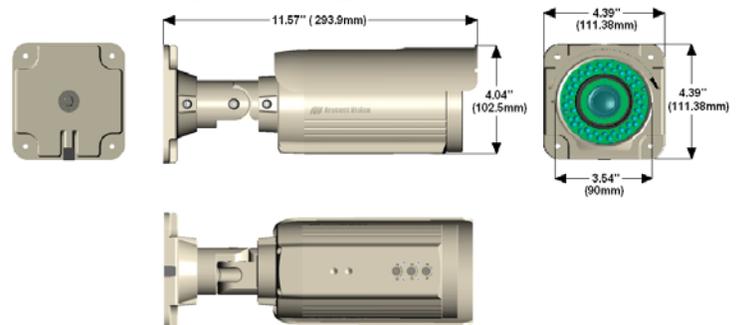
- Voltage Input: 12V to 48V DC or 24V AC (separate power required)
- 48 pcs 850nm LEDs
- 25 meter IR distance (max)
- 45° IR angle
- 3 watts power consumption

### Mechanical

- Easily adjustable 3-axis bracket
- Vandal resistant aluminum cylindrical (Bullet-style) housing
- External lens adjustment including zoom, iris and focus
- 4"W (102 mm) x 4.3"H (111 mm) x 11.5"D (293mm)
- 4.4 lbs (2 kg)

### Lens

- 4.5 - 10 mm vari-focal lens with IR corrected
  - Max Aperture: F1.6
  - Horizontal F.O.V. = 22°-48°



### Accessories:

- MV-EBA - Indoor/Outdoor Electrical Box Adapter
- MD-PMA - Indoor/Outdoor Pole Mount Adapter
- MD-CRMA - Indoor/Outdoor Corner Mount Adapter

