

# AV3255/AV5255

3 Megapixel or 5 Megapixel H.264 Day/Night IP MegaDome® 2 Camera

**AV3255AM**

3MP Day/Night Remote Focus, Remote Zoom, Auto-Iris

**AV5255AM**

5MP Day/Night Remote Focus, Remote Zoom, Auto-Iris

**AV3255AM-HK**

3MP Day/Night Remote Focus, Remote Zoom, Auto-Iris w/ Heater

**AV5255AM-HK**

5MP Day/Night Remote Focus, Remote Zoom, Auto-Iris w/ Heater



**Remote Focus, Remote Zoom and Auto-Iris**

The **Fastest** Frame Rate at 3MP and 5MP Resolution on the Market up to **21fps @ 3MP**, up to **14fps @ 5MP**

**Binned Mode** to Increase Low Light Performance

## Arecont Vision Advantages:

- All-in-one H.264 MegaDome Solution
- IP66 and Vandal Resistant Dome, IK10 Rated
- Remote Focus, Remote Zoom and Auto-Iris Lens
- Total PoE Solution (No External Power for Heater)
- Easily Adjustable 3-axis Gimbal
- Dual Encoder H.264/MJPEG
- Fastest Megapixel Image Rates
- PSIA Compliance
- Binned Mode
- Privacy Mask
- Extended Motion Detection Grid
- Flexible Cropping
- Multi-Streaming
- Forensic Zooming
- True Day/Night Functionality with Removable IR Cut Filter
- Heater (Optional)

Specification sheets subject to change without notice **Made in USA**



**Model Numbers:**

<b>AV3255AM</b>	3MP D/N Remote Focus /Zoom
<b>AV3255AM-HK</b>	3MP D/N Remote Focus /Zoom w/ Heater
<b>AV5255AM</b>	5MP D/N Remote Focus /Zoom
<b>AV5255AM-HK</b>	5MP D/N Remote Focus /Zoom w/ Heater

**Imaging**

- 3 megapixel effective CMOS image sensor ( AV3255)
- 5 megapixel CMOS image sensor ( AV5255)
- Progressive Scan
- Full resolution: 2048 (H) x 1536 (V) pixel array (AV3255)
- Full resolution: 2592 (H) x 1944 (V) pixel array (AV5255)
- 1/2.5" optical format
- 2.2  $\mu$ m pixel pitch
- Minimum illumination of:
  - Color(non-binned): 0.3 Lux @ F1.8
  - Color(binned): 0.15 Lux @ F1.8
  - 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
<b>AV3255</b>	2048 (H) x 1536 (V)	1024 (H) x 768(V)
<b>AV5255</b>	2592 (H) x 1944 (V)	1296 (H) x 972(V)

**Cropped (FOV) Resolution**

- Flexible Cropping - Crop to 2 pixels in H.264 & 1 pixel in JPEG
- 2560x1600 QWXGA (AV5255)
  - 2048x1536 3MP (AV5255)
  - 1920x1200 WUXGA
  - 1920x1080 HDTV-1080p
  - 1600x1200 2MP
  - 1280x1024 1.3MP
  - 1280x720 HDTV - 720p
  - 640x480 VGA

**Data Transmission**

- Video frame rate up to:
- AV5255:
    - 14fps @ 2592x1944
    - 16.5fps @ 2560x1600
  - AV3255/5255:
    - 21fps @ 2048x1536
    - 31fps @ 1600x1200
    - 29fps @ 1920x1080
    - 41fps @ 1280x1024
- In binned mode up to:
- AV5255:
    - 34fps @ 1296x972
    - 41fps @ 1280x800
  - AV3255/5255:
    - 47fps @ 1024x768
    - 64fps @ 800x600
    - 64fps @ 960x540
    - 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

**Compliance Information**

- Compliance:
  - Class A FCC, Part 15; EN55022 Class A, EN55024, EN61000-3-2, EN61000-3-3, EN60950-1 RoHS, REACH, IK-10 (EN62262), IP66 (EN60529)
- Marks: cULus, CE Mark

**Industry standard**

- PSIA compliance

**Camera Electrical**

- General purpose opto-coupled input and output
- Power over Ethernet (PoE): PoE 802.3af for camera
- Auxiliary power 12-48V DC, 24V AC
- Power consumption: 9 Watts (W/O Heater)  
12.8 Watts (W/ Heater)

**Programmability**

- Remote zoom, focus and auto-iris
- Binned Mode
- Privacy mask
- Low light noise filter control
- Auto Exposure (AE) and Gain Control (AGC) >120dB
- Shutter Speed: 1ms - 500ms
- 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 & 2x2 pixels for H.264
- Programmable shutter speed to help control motion blur
- MoonLight™ mode - extended exposure & proprietary noise cancellation
- Programmable resolution, brightness, saturation, gamma, sharpness, tint
- Simultaneous delivery of full FOV & zoomed images
- Bandwidth & storage savings by running at 1/4 resolution

**Heater Electrical**

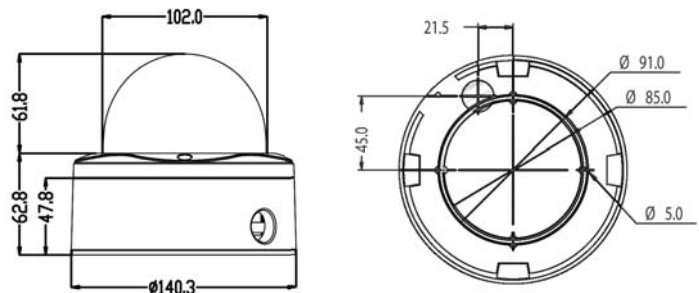
- Power Output: 2.28W Max
- Switch: On: 17C° (62.6 °F), Off: 30 °C (86 °F)
- Total PoE Solution: No external power requirement

**Mechanical**

- Casing
  - Die-casting aluminum chassis with 4" polycarbonate dome bubble
  - IP66 weather proof standard, Vandal Resistant, IK10 Rated
- Easily adjustable 3-axis camera gimbal w/ 360° pan, 90° tilt & 360° z-axis
- Total Unit dimensions:
  - Ø5.5 x 4.9 in (H), bubble only: Ø4.0 x 2.4 in (H)
  - Ø140.3 x 124.6 mm (H), bubble only: Ø102 x 61.8 mm (H)
- 2.25 lbs (1.02 kg)

**Environmental**

- Operating temperature:
  - No Heater: -20°C (-4°F) to +60°C (140 °F)
  - With Heater: -40°C (-40 °F) to +60°C (140 °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)

**Lenses**

- 3.6-9mm, F1.8, Remote focus, Zoom and Auto-Iris lens
- HFOV = 71° - 25° (AV3255) / 96° - 36° (AV5255)

**Accessories**

- MD-WMT2: Wall Mount with Cap (1.5" NTP)
- MD-CAP: Wall Mount Cap Only (1.5" NTP)
- MD-CMT: Pendant Mount
- MD-CRMA: Corner mount adapter
- MD-PMA: Pole mount adapter
- MD2-HK: Optional 2W Heater Kit
- SV-EBA: Electrical Box Adapter for MD-WMT2
- SV-JBA: Junction Box Adapter for MD-WMT2 (for retrofit and on-site installation)