

AV3255/AV5255

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

AV3255 Series

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

AV3255AM	MD2 Base Model
AV3255AM-H	MD2 w/ Heater
AV3255AMIR	MD2 w/ IR LEDs
AV3255AMIR-H	MD2 w/ IR LEDs and Heater

AV5255 Series

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

AV5255AM	MD2 Base Model
AV5255AM-A	MD2 w/ Audio
AV5255AM-H	MD2 w/ Heater
AV5255AM-AH	MD2 w/Audio and Heater
AV5255AMIR	MD2 w/ IR LEDs
AV5255AMIR-A	MD2 w/ IR LEDs and Audio
AV5255AMIR-H	MD2 w/ IR LEDs and Heater
AV5255AMIR-AH	MD2 w/ IR LEDs, Audio and Heater



Remote Focus, Remote Zoom and Auto-Iris

The **Fastest** Frame Rates at 5MP and 3MP Resolutions on the Market up to **14fps @ 5MP** and **21fps @ 3MP**

Binned Mode to Increase Sensitivity and **Low Light Performance**

Arecont Vision Advantages:

- All-in-One H.264 MegaDome Solution
- Remote Focus, Remote Zoom and Auto Iris Lens
- IP66 and Vandal Resistant Dome, IK10 Rated
- Total PoE Solution
(No External Power Required for Heater and IR LEDs)
- True Day/Night Functionality with Removable IR Cut Filter
- PSIA and ONVIF Compliance
- New User Friendly Web-Page
- Easily Adjustable 3-axis Gimbal
- Dual Encoder H.264/MJPEG
- Privacy Mask, Motion Detection and Flexible Cropping
- Optional Audio, IR LEDs and Heater

Model Numbers:

AV3255AM	3MP MD2 Base Model
AV3255AM-H	3MP MD2 w/ Heater
AV3255AMIR	3MP MD2 w/ IR LEDs
AV3255AMIR-H	3MP MD2 w/ IR LEDs, Heater
AV5255AM	5MP MD2 Base Model
AV5255AM-A	5MP MD2 w/ Audio
AV5255AM-H	5MP MD2 w/ Heater
AV5255AM-AH	5MP MD2 w/ Audio, Heater
AV5255AMIR	5MP MD2 w/ IR LEDs
AV5255AMIR-A	5MP MD2 w/ IR LEDs, Audio
AV5255AMIR-H	5MP MD2 w/ IR LEDs, Heater
AV5255AMIR-AH	5MP MD2 w/ IR LEDs, Audio, Heater

Imaging

- 3 megapixel effective CMOS image sensor (AV3255)
- 5 megapixel CMOS image sensor (AV5255)
- Progressive scan
- 1/2.5" optical format, 2.2 µm 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
AV3255	2048 (H) x 1536 (V)	1024 (H) x 768 (V)
AV5255	2592 (H) x 1944 (V)	1296 (H) x 972 (V)

Lens

- 3.6-9mm, F1.8, remote focus, zoom and auto-iris lens
- HFOV = 71° - 25° (AV3255) / 96° - 36° (AV5255)

Cropped (FOV) Resolution

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

Data Transmission

- Video frame rate up to:
- | | |
|-----------------------|-------------------------|
| AV5255: | • In binned mode up to: |
| • 14fps @ 2592x1944 | AV5255: |
| • 16.5fps @ 2560x1600 | • 34fps @ 1296x972 |
| AV3255/5255: | • 41fps @ 1280x800 |
| • 21fps @ 2048x1536 | AV3255/5255: |
| • 29fps @ 1920x1080 | • 47fps @ 1024x768 |
| • 41fps @ 1280x1024 | • 64fps @ 960x540 |
| | • 64fps @ 640x512 |
- Compression type
 - H.264 (MPEG-4, Part 10) / Motion JPEG
 - 21 levels of quality
 - TFTP, HTTP, RTSP, RTP/TCP, RTP/UDP image transmission protocols
 - 100Base-T Ethernet Network Interface
 - Multi-streaming: 8 non-identical streams

Environmental

- Operating temperature:
 - w/o Heater: -20°C (-4°F) to +50°C (122°F)
 - w/ Heater: -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)

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)
- CE Mark, UL Listed

Programmability

- Remote focus, remote zoom and auto-iris
- Binned mode, flexible cropping and low light noise filter control
- Shutter speed: 1ms - 500ms
- Backlight compensation
- Auto multi-matrix white balance
- On-camera motion detection and privacy mask w/ 1024 detection zones
- 50/60Hz selectable flicker control
- Electronic pan, tilt, zoom (PTZ) and image flip - 180 degree rotation
- MoonLight™ mode - extended exposure & proprietary noise cancellation
- Programmable resolution, brightness, saturation, gamma, sharpness, tint
- Bit rate and bandwidth limitation control

Camera Electrical

- General purpose opto-isolated input and output
- Power over Ethernet (PoE): PoE 802.3af for camera
- Auxiliary power 12-48V DC, 24V AC
- Power consumption:
 - 10.7 watts Base model / -AH model
 - 12.6 watts IR model / -IR-AH model

Audio Electrical (-A models only)

- Streaming: Two-way
- Compression : G.711 PCM 8 kHz
- Input/output: External microphone input or line input / line output

Heater Electrical (-H models only)

- Power Consumption: 2.28 W Max
- Switch: On: 4°C (32.9 °F), Off: 6.5 °C (43.7 °F)
- Total PoE Solution: No external power requirement

IR Illuminator (-IR models only)

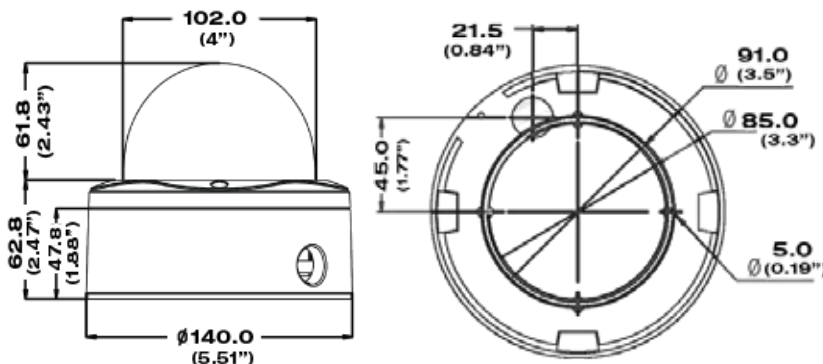
- 24 pcs 850nm LEDs / 15 meter IR distance (max) / 40° IR angle
- No external power required

Industry standard

- PSIA compliance and ONVIF compliance

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 (1.02kg)

**Accessories:**

- MD-WMT2: Wall mount w/ 1.5" NPT
- MD-CAP: Wall mount cap only w/ 1.5" NPT
- 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
- SV-JBA: Junction box adapter (for on-site installation)