

# MicroDome® IP Megapixel Cameras

1.3–5MP H.264 All-in-One Ultra Low Profile True Day/Night Indoor or Indoor/Outdoor Dome IP Cameras with WDR (Wide Dynamic Range) Models



Image from a 5MP MicroDome® camera

## Low Profile All-in-One Dome Cameras with Integrated Lens, Audio and Optional WDR

Arecont Vision MicroDome® small, ultra low profile IP megapixel cameras offer our great megapixel technology features like superior image quality, excellent compression and fast frame rates. MicroDome® is available in both flush and surface mount configurations. An innovative spring arm design makes recessed installation a snap: simply slide the camera through the hole and secure the magnetized cover ring with a single screw. Excellent low light performance is accomplished through the use of a mechanical day/night switcher on all MicroDome® cameras, and by choosing pixel binning on 3- and 5-megapixel models. Add optional true Wide Dynamic Range (WDR) and difficult lighting conditions are overcome with MicroDome®.



# MicroDome® IP Megapixel Cameras

## Highlighted Features:

- 1.3–5MP Models
- Ultra Low Profile Design / Small Size
- Very Easy Installation / Factory Focused
- Multiple Lens Options Available (Sold Separately)
- Integrated Microphone (-F Models)
- Optional True WDR up to 100dB at Full Resolution Available on Some 1080p and 3MP Models: See Clearly in Shaded and Bright Light Conditions Simultaneously
- True Day/Night Functionality with Mechanical IR Cut Filter (DN Models)
- Binning Mode for Strong Low Light Performance on 3MP and 5MP Cameras

- Casino Mode™ Guarantees Continuous 30fps Frame Rate Required by Gaming Industry Regulations (AV2455 Models)
- Privacy Mask, Motion Detection, Flexible Cropping, Bit Rate Control, Multi-Streaming and Forensic Zooming
- Dual Encoder H.264/MJPEG
- All-in-One H.264 Total Power Over Ethernet (PoE) Solution with Integrated 4mm Lens or No Lens (-NL Models) Allowing the User to Select the Appropriate Lens for the Specific Application
- Outdoor Rated IP66 and IK-10 Impact-Resistant Housing (-S Models)
- Tamper-Resistant Housing

- Fast Frame Rates
- ONVIF Profile S and PSIA Conformant
- New User-Friendly Webpage
- Reduced Overall System Cost
- Made in the USA

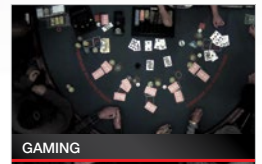


## Ultra Low Profile

The flush mount MicroDome® measures a mere 1.5" from the ceiling (2.6" for surface mount models) and is only 4" wide, offering video surveillance solutions for locations that require a small camera appearance with true Day/Night functionality. MicroDome® is ideal for retail stores, schools, banks and office locations.



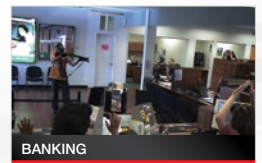
RETAIL



GAMING



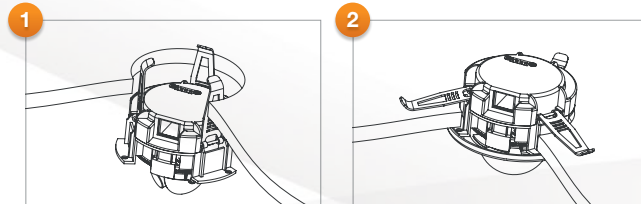
EDUCATION



BANKING

## Easy Installation with MicroDome® Flush Mount

MicroDome® incorporates an innovative spring arm design meant for simple installation into drop ceilings with no external hardware required. Simply cut a hole in the ceiling and the MicroDome® pops into place, securing itself with no fasteners to contend with. The MicroDome® is a total Power over Ethernet (PoE) solution eliminating the need for separate power cables.



### Integrated Microphone

The flush mount MicroDome® has an integrated microphone, eliminating the need to install separate audio connectors on site. (Can be disabled.)



## Outdoor-Ready and Vandal-Resistant with MicroDome® Surface Mount

Install the MicroDome® camera in the surface mount configuration with confidence both indoors and outdoors. Small but tough, the MicroDome® Surface Mount camera is IP66 environmentally-rated and IK-10 impact-resistant. The camera can withstand dust and water ingress as well as forceful blows and still stay on duty protecting your environment with detailed megapixel images.

## MegaDynamic® Wide Dynamic Range (WDR)

Users can achieve clear images in extreme lighting conditions with MicroDome® True WDR cameras in resolutions of 1080p and 3MP. Wide Dynamic Range up to 100dB at full resolution balances light and dark areas in the same scene, such as in the lobby of an office building with large windows, or the loading dock at a distribution facility or in many retail environments.



Megapixel image without WDR



Megapixel image with WDR

## Enhanced Low Light Performance



Day Mode



Night Mode

As part of their superior Day/Night operation, MicroDome® cameras include low light enhancing technology such as a mechanical IR (infrared) cut filter, pixel binning and adaptive noise-cancellation.

## User-Friendly Web Interface

For easy installation, configuration and ongoing control, MicroDome® uses our new user-friendly web interface management system that is loaded with easy to use menus to adjust and fine tune your camera settings. Slider bars and numeric text boxes allow complete control of the following camera features:

- Image Settings
- Video Compression
- H.264 Stream Settings
- Network Options
- Motion Detection
- Privacy Mask Settings
- Administration
- About - Camera Details



## Forensic Zooming

Arecont Vision MicroDome® megapixel cameras deliver outstanding resolution to capture significant detail whether viewing live or recorded/archived video. With the ability to digitally Pan-Tilt-Zoom (PTZ) images, you can view the details you need to see at any time, such as license plates, faces and other objects of interest. The superior resolution of the MicroDome® megapixel cameras, along with the multiple lens options available as accessories (see lens chart) offer users a variety of fields of view. This makes it possible for the MicroDome® to do the work of multiple conventional cameras and provide critical forensic information—all without the need and associated expense of system operators having to “catch” activities of interest as they occur.



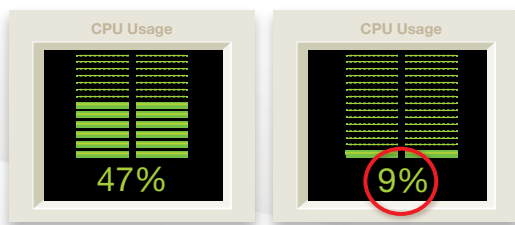
Digital Zoom Field of View



Wide Field of View

## Compliant H.264 Compression

MicroDome's compliant implementation of H.264 allows full frame rates and full resolution without sacrificing image quality. With bit rate control, the CPU load is decreased at both the client (decompression) side and the server/storage side, allowing lower bandwidth and storage relative to MJPEG. Real Time Streaming Protocol (RTSP) allows for compatibility with media players such as Apple QuickTime®, VLC and others.



2MP with live video in MJPEG

2MP with live video in H.264



# MicroDome® IP Megapixel Cameras

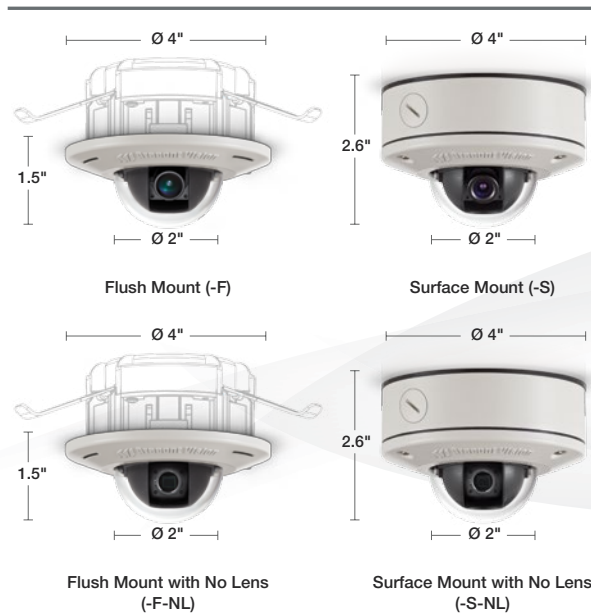
## Product Comparison



| Model    | Sensor | Full Resolution | Max Frame Rate @ Full Resolution | Minimum Illumination                                                                  | Lens*                                           | H.264/MJPEG | Day/Night | WDR | Casino Mode™ | Binning Mode |
|----------|--------|-----------------|----------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------|-------------|-----------|-----|--------------|--------------|
| AV1455DN | 1.3MP  | 1280 x 1024     | 42fps                            | Color: 0.1 Lux<br>B/W: 0 Lux, IR Sensitive                                            | M12, 4mm, 1/2.5", F1.6, Fixed Iris, H-FOV = 53° | •           | •         |     |              |              |
| AV2455DN | 1080p  | 1920 x 1080     | 31fps                            | Color: 0.1 Lux<br>B/W: 0 Lux, IR Sensitive                                            | M12, 4mm, 1/2.5", F1.6, Fixed Iris, H-FOV = 81° | •           | •         |     | •            |              |
| AV2456DN | 1080p  | 1920 x 1080     | 30fps                            | Color: 0.3 Lux<br>B/W: 0 Lux, IR Sensitive                                            | M12, 4mm, 1/2.5", F1.6, Fixed Iris, H-FOV = 59° | •           | •         | •   |              |              |
| AV3455DN | 3MP    | 2048 x 1536     | 21fps                            | Color (Non-Binning): 0.3 Lux<br>Color (Binning): 0.15 Lux<br>B/W: 0 Lux, IR Sensitive | M12, 4mm, 1/2.5", F1.6, Fixed Iris, H-FOV = 63° | •           | •         |     |              | •            |
| AV3456DN | 3MP    | 2048 x 1536     | 21fps                            | Color (Non-Binning): 0.5 Lux<br>Color (Binning): 0.15 Lux<br>B/W: 0 Lux, IR Sensitive | M12, 4mm, 1/2.5", F1.6, Fixed Iris, H-FOV = 63° | •           | •         | •   |              | •            |
| AV5455DN | 5MP    | 2592 x 1944     | 14fps                            | Color (Non-Binning): 0.5 Lux<br>Color (Binning): 0.15 Lux<br>B/W: 0 Lux, IR Sensitive | M12, 4mm, 1/2.5", F1.6, Fixed Iris, H-FOV = 80° | •           | •         |     |              | •            |

## Configurations

(Example: AV2456DN-F-NL)



## Lens Options

| Focal Length   | 2.8mm              | 4mm       | 6mm                | 8mm                | 12mm               | 16mm               |
|----------------|--------------------|-----------|--------------------|--------------------|--------------------|--------------------|
| F Stop         | F1.8               | F1.6      | F1.6               | F1.6               | F1.6               | F1.6               |
| Horizontal FOV | 1.3MP              | 75        | 53                 | 36                 | 28                 | 18                 |
|                | 1080p              | 114       | 81                 | 56                 | 42                 | 28                 |
|                | 1080p WDR          | 83        | 59                 | 40                 | 30                 | 20                 |
|                | 3MP                | 89        | 63                 | 43                 | 33                 | 22                 |
|                | 3MP WDR            | 89        | 63                 | 43                 | 33                 | 22                 |
|                | 5MP                | 113       | 80                 | 55                 | 40                 | 28                 |
| Option         | Ordered Separately | Standard* | Ordered Separately | Ordered Separately | Ordered Separately | Ordered Separately |
| Part Number    | MPM2.8             | MPM4.0    | MPM6.0             | MPM8.0             | MPM12.0            | MPM16.0            |

## Accessories

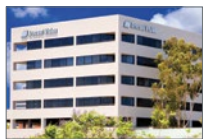
**MCD-PMT\*\***  
Pendant Mount Adapter



**MCD-WMT\*\***  
Wall Mount Adapter



\* Except for -NL Models  
\*\* For surface models only



## Global Sales and Support

Arecont Vision is the leading manufacturer of high-performance megapixel IP cameras and associated software.

### Americas

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Arecont Vision, LLC. Headquarters  
425 E. Colorado St., 7th Floor  
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