

# MicroDome® Megapixel IP Cameras

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

## 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®.



Flush Mount

Surface Mount

### Highlighted Features:

- Ultra Low Profile Design / Small Size
- Very Easy Installation / Factory Focused
- All-in-One H.264 Total Power Over Ethernet (PoE) Solution with Integrated 4mm Lens
- 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
- Multiple Lens Options Available (Sold Separately)
- Integrated Microphone (-F Models)
- Casino Mode™ Maintains Continuous 30fps Frame Rate Required by Gaming Industry Regulations (AV2455 Models)
- Binning Mode for Strong Low Light Performance in 3MP and 5MP Models
- True Day/Night Functionality with Mechanical IR Cut Filter (DN Models)
- Tamper-Resistant Housing
- Outdoor Rated IP66 and IK-10 Impact-Resistant Housing (-S Models)
- Dual Encoder H.264/MJPEG
- Privacy Mask, Motion Detection, Flexible Cropping, Bit Rate Control, Multi-Streaming and Forensic Zooming
- Fast Frame Rates
- PSIA Conformant



Image from a 5MP MicroDome® camera

**Ultra Low Profile Design**

**All-in-One PoE and Integrated Lens**

**True Day/Night with Mechanical IR Cut Filter**

**Integrated Microphone (-F Models)**

**Impact / Weather Resistant IK-10 and IP66 Rated (-S Models)**

**Pixel Binning Mode on 3 and 5MP Models**

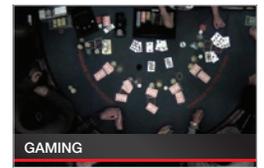
**Wide Dynamic Range Available on AV2456 and AV3456 Models**

**Casino Mode™ Maintains at Least 30fps on AV2455 Models**

**Dual Encoder H.264/MJPEG**

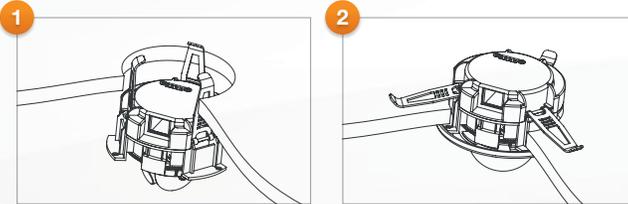
## Ultra Low Profile

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.



## 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)

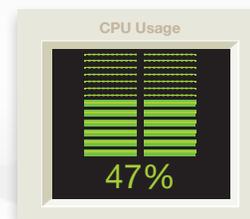
Users can achieve clear images in extreme lighting conditions with MicroDome® WDR cameras in resolutions of 1080p and 3MP. Wide Dynamic Range up to 100dB at full resolution balances light and dark areas in the same scene, such as in the lobby of an office building with large windows, or the loading dock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



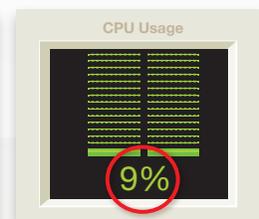
Megapixel image without WDR



Megapixel image with WDR



2MP with live video in MJPEG



2MP with live video in H.264

## 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.

## MicroDome® Megapixel IP Cameras

## 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

## Other Features

**x8 Multi-Streaming**  
8 Non-Identical Streams



**Motion Detection**  
1024-Zone Motion Detection



**Bit Rate Control**  
Bandwidth Limiting



**Privacy Masking**  
Privacy Masking for Multiple Regions



**Flexible Cropping**  
Windowing Down to 1x1 Pixels for JPEG and 2x2 Pixels for H.264



**Reduced System Cost**  
Overall Reduced Total Cost of Ownership



## 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 = 79° | •           | •         |     | •            |              |
| 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 = 66° | •           | •         |     |              | •            |
| AV3456DN | 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° | •           | •         | •   |              | •            |
| AV5455DN | 5MP    | 2592 x 1944     | 14fps                            | 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 = 83° | •           | •         |     |              | •            |

## Configurations



## 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              | 71       | 53                 | 35                 | 26                 | 17                 |
|                | 1080p              | 106      | 79                 | 52                 | 39                 | 26                 |
|                | 1080p WDR          | 83       | 59                 | 42                 | 31                 | 19                 |
|                | 3MP                | 90       | 66                 | 46                 | 34                 | 23                 |
|                | 3MP WDR            | 88       | 63                 | 45                 | 33                 | 20                 |
| 5MP            | 114                | 83       | 58                 | 43                 | 29                 | 22                 |
| Option         | Ordered Separately | Standard | Ordered Separately | Ordered Separately | Ordered Separately | Ordered Separately |

## Accessories



\*For surface models only



## Global Sales and Support

Arecont Vision is the leading manufacturer of high-performance megapixel IP cameras and associated software. All Arecont Vision cameras are made in the USA.

### North America

**Los Angeles, USA**  
Arecont Vision, LLC. Headquarters  
425 E. Colorado St., 7th Floor  
Glendale, CA 91205, USA

Phone: +1.818.937.0700  
Toll Free: 877.CAMERA.8  
Fax: +1.818.937.0464

### Sales

Phone: +1.818.937.0700 x 3  
Email: avsales@arecontvision.com

### Support

Phone: +1.818.937.0700 x 1  
Email: support@arecontvision.com

### South America

**Latin America**  
Email: latam.sales@arecontvision.com

### EMEA

**Frankfurt, Germany**  
Arecont Vision Europe GmbH  
Lyoner Straße 38, 5th Floor  
60528 Frankfurt, Germany

Phone: +49.69.6953.4600  
Email: europe.sales@arecontvision.com

### Moscow, Russia

CJSC Arecont Vision  
121351, Russian Federation, Moscow, 58/1, Molodogvardeiskaya str.

Phone: +7.495.649.0577  
Fax: +7.495.221.5227  
Email: info@arecontvision.ru

### Middle East

Email: mena.sales@arecontvision.com

### Africa

Email: africa.sales@arecontvision.com

### APAC

#### Shanghai, China

Resident Representative Office of Arecont Vision, LLC  
in Shanghai  
Taolin Road No. 18, Building A  
World Plaza, Room #1603  
Pudong New District, Shanghai, 200135  
P.R.China

Phone: +86.21.6176.2596  
Alt. Phone: +86.21.6176.2597  
Fax: +86.21.6085.2520  
Email: apac.sales@arecontvision.com