Arecont Vision introduces MicroDome® megapixel IP cameras. These small, ultra-low profile cameras offer the great features of Arecont Vision megapixel technology like superior image quality, excellent compression and fast frame rates. MicroDome® is available in both recessed 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. Every model comes equipped with a mechanical day/night switcher, and pixel binning on 3- and 5-megapixel models deliver excellent low light capabilities. Add optional true Wide Dynamic Range (WDR) and difficult lighting conditions are overcome with MicroDome®.

- **1.3–5MP Models**
- **Ultra Low Profile Design**
- **Very Easy Installation**
- **Multiple Lens Options Available**
- **Integrated Microphone**
- **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**
- **New User-Friendly Web Interface**
- **Reduced Overall System Cost**

### Model Specific Features

<table>
<thead>
<tr>
<th>Model</th>
<th>Resolution</th>
<th>Frame Rate</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>AV1455DN</td>
<td>1.3MP</td>
<td>42fps</td>
<td>-</td>
</tr>
<tr>
<td>AV2455DN</td>
<td>1080p</td>
<td>31fps</td>
<td>-</td>
</tr>
<tr>
<td>AV2456DN</td>
<td>1080p</td>
<td>30fps</td>
<td>WDR</td>
</tr>
<tr>
<td>AV3455DN</td>
<td>3MP</td>
<td>21fps</td>
<td>-</td>
</tr>
<tr>
<td>AV3456DN</td>
<td>3MP</td>
<td>21fps</td>
<td>WDR, Binning</td>
</tr>
<tr>
<td>AV5455DN</td>
<td>5MP</td>
<td>14fps</td>
<td>-</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>-F</th>
<th>Flush Mount</th>
<th>-S</th>
<th>Surface Mount</th>
<th>-NL</th>
<th>No Lens</th>
</tr>
</thead>
</table>

(Example: AV2456DN-F-NL)
## Camera Imaging Specifications

### Model Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>AV1455DN</th>
<th>AV2455DN</th>
<th>AV2456DN</th>
<th>AV3455DN</th>
<th>AV3456DN</th>
<th>AV5455DN</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Image Sensor (CMOS)</strong></td>
<td>1.3MP</td>
<td>1080p</td>
<td>1080p</td>
<td>3MP</td>
<td>3MP</td>
<td>5MP</td>
</tr>
<tr>
<td><strong>Optical Format</strong></td>
<td>1/2.7&quot;</td>
<td>1/2.7&quot;</td>
<td>1/3.2&quot;</td>
<td>1/2.5&quot;</td>
<td>1/3.2&quot;</td>
<td>1/2.5&quot;</td>
</tr>
<tr>
<td><strong>Pixel Pitch</strong></td>
<td>3μm</td>
<td>3μm</td>
<td>2.2μm</td>
<td>2.2μm</td>
<td>2.2μm</td>
<td>2.2μm</td>
</tr>
<tr>
<td><strong>Minimum Illumination</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>0.1 Lux</td>
<td>0.1 Lux</td>
<td>0.3 Lux</td>
<td>0.3 Lux</td>
<td>0.5 Lux</td>
<td>0.5 Lux</td>
</tr>
<tr>
<td>Color Binning</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>0.15 Lux</td>
<td>0.15 Lux</td>
<td>0.15 Lux</td>
</tr>
<tr>
<td>Day/Night</td>
<td>0 Lux, IR sensitive</td>
<td>0 Lux, IR sensitive</td>
<td>0 Lux, IR sensitive</td>
<td>0 Lux, IR sensitive</td>
<td>0 Lux, IR sensitive</td>
<td>0 Lux, IR sensitive</td>
</tr>
<tr>
<td><strong>Full FOV Resolution</strong></td>
<td>1280 H x 1024 V</td>
<td>1920 H x 1080 V</td>
<td>1920 H x 1080 V</td>
<td>2048 H x 1536 V</td>
<td>2048 H x 1536 V</td>
<td>2592 H x 1944 V</td>
</tr>
<tr>
<td><strong>Dynamic Range</strong></td>
<td>69dB</td>
<td>69dB</td>
<td>WDR up to 100dB</td>
<td>70.1dB</td>
<td>WDR up to 100dB</td>
<td>70.1dB</td>
</tr>
<tr>
<td><strong>Lens</strong></td>
<td>4mm Integrated, 1/2.5&quot;, F/1.6, H-FOV = 53°</td>
<td>4mm Integrated, 1/2.5&quot;, F/1.6, H-FOV = 81°</td>
<td>4mm Integrated, 1/2.5&quot;, F/1.6, H-FOV = 59°</td>
<td>4mm Integrated, 1/2.5&quot;, F/1.6, H-FOV = 63°</td>
<td>4mm Integrated, 1/2.5&quot;, F/1.6, H-FOV = 60°</td>
<td></td>
</tr>
<tr>
<td><strong>Frame Rates</strong></td>
<td>42fps (1280 x 1024)</td>
<td>31fps (1920 x 1080)</td>
<td>30fps (1920 x 1080)</td>
<td>29fps (1920 x 1080)</td>
<td>21fps (1920 x 1080)</td>
<td>14fps (2592 x 1944)</td>
</tr>
<tr>
<td><strong>Binning Mode</strong></td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>46fps (1024 x 768)</td>
<td>41fps (1280 x 1024)</td>
<td>-</td>
</tr>
</tbody>
</table>

### Mechanical Specifications

- **Casing**: IK-10 impact-resistant and tamper-resistant housing
- **Lens Options**: 4mm board mount (M12), fixed iris, F/1.6
- **Gimbal**: Easy 2 axis camera adjustment w/ 359° pan and 90° tilt
- **Dimensions**: Ø 4" (100mm) x 3.1" H (78.5mm)
- **Weight**: Unit 0.7lbs (0.3kg) | Packaged 1.3lbs (0.6kg)

### Programmability Specifications

- **Motion Detection and privacy mask with 1024 detection zones**
- **Shutter Speed**: 1ms – 500ms
- **Pixel Binning Mode (3MP and 5MP models)**
- **Auto adjust between WDR and LDR modes (WDR models)**
- **Casino Mode™ maintains 30fps (AV2455 model)**
- **MoonLight™ Mode**: extended exposure and proprietary noise cancellation
- **Flexible Cropping (resolution windowing down to 1x1 pixel for JPEG and 2x2 pixels for H.264)**
- **Low light noise filter control**
- **Bit rate and bandwidth limitation control**
- **Backlight compensation and multi-matrix white balance**
- **50/60Hz selectable flicker control**
- **Electronic pan, tilt, zoom (PTZ) and image flip 180°**
- **Programmable resolution, brightness, saturation, gamma, sharpness, tint**

### Compliance Specifications

- **Industry Standard**: ONVIF Profile S and PSIA Conformant
- **Listings**: UL (CB)
- **FCC Compliance**: 47 CFR 15 Class A
- **Environmental**: RoHS, REACH, WEEE
- **Markings**: (CE) EN55022 Class A, EN55024, EN61000-3-2, EN61000-3-3, EN60950-1
- **Mechanical (-S Model)**: IP66 (EN60529)

### Environmental Specifications

- **Operating Temperature**: -F Model -5°C (23°F) to +50°C (122°F) | -S Model -40°C (-40°F) to +50°C (122°F)
- **Humidity**: 0% to 90% (non-condensing)
- **Stable Image Temperature**: 0°C (32°F) to +50°C (122°F)
- **Storage Temperature**: -20°C (-4°F) to +60°C (140°F)

### Electrical Specifications

- **Input/Output**: General purpose opto-coupled
- **Power Over Ethernet**: PoE 802.3af, Class 3
- **Max Power Consumption**: 5.59 Watts