ConteraIP® MicroDome® LX Megapixel Camera

1080p or 5 Megapixel (MP) H.265/H.264 All-in-One True Day/Night Indoor/Outdoor Ultra Low Profile Dome IP Camera with SNAPstream+™ (Smart Noise Adaptation and Processing), Enhanced WDR™ (Wide Dynamic Range), NightView™, and IR LED Models

The ConteraIP® MicroDome LX megapixel cameras feature 1080p or 5-megapixel (MP) resolutions for optimum performance with a day/night mechanical IR cut filter and interchangeable lenses. Regardless of the time of day, the ConteraIP MicroDome LX is prepared for any lighting condition. For applications with poor lighting conditions, Enhanced WDR (wide dynamic range) at 120dB provides the best visual balance to shaded and bright light conditions. For clear color images in low-light, NightView offers strong low-light sensitivity for capturing details in extremely poor-lit scenes, and is further enhanced in IR-S models by built-in IR LED illumination.

ConteraIP MicroDome LX cameras deliver professional surveillance, with ease of installation and set-up, for a variety of network surveillance requirements. The three-axis lens adjustment provides users with more camera placement options and the remote focus module allows users to adjust the camera focus after installation. An innovative spring arm design makes in-ceiling -F model installations a snap: simply slide the camera through the hole and secure the magnetized cover ring with a single screw. No additional hardware is required. The ConteraIP MicroDome LX camera series is available in an indoor, in-ceiling housing or in a surface mount IP66 rated version for indoor and outdoor applications. All models feature a vandal resistant, IK-10 rated cast-aluminum housing with a polycarbonate bubble making it capable of withstanding the equivalent of 55 kg (120 lbs) of force.

ConteraIP MicroDome LX cameras are compliant with ONVIF Profile S, G, and T, providing interoperability between network video products regardless of manufacturer.

Series Features

- 1080p (2.1MP) or 5MP Resolution
- Remote Focus Module
- Multiple Lens Options Available (Sold Separately)
- Easily Adjustable 3-Axis Gimbal
- Ultra Low Profile Design / Small Size
- SNAPstream+ Capability to Reduce Bandwidth without Impacting Image Quality
- NightView for Strong Low Light Performance
- True Day/Night Functionality with Mechanical IR Cut Filter
- Enhanced WDR up to 120dB at Full Resolution: See Clearly in Shaded and Bright Light Conditions Simultaneously
- CorridorView™ Allows 90° Image Rotation for Better Coverage in Hallways and Corridors
- Privacy Mask, Motion Detection, Bit Rate Control, Multi-Streaming, Multicasting, and Scaling
- On-Screen Display (OSD)
- Defog Technology
- Triple Encoder: H.265/H.264/MJPEG
- Network Protocols Include SNMP, HTTPS, IPv6, DHCP, 802.1x, and More
- All-in-One H.265/H.264 PoE Solution
- Integrated IR LEDs (IR-S Models)
- IK-10 Impact-Resistant Housing Outdoor Rated IP66 (IR-S Models)
- Audio In / Out (Accessory Sold Separately)
- Integrated Microphone (-F Models)
- Spring-Arm Design for Very Easy Installation (-F Models)
- Tamper-Resistant Housing

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## Camera Imaging Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>AV2756DN-F</th>
<th>AV5756DN-F</th>
<th>AV2756DNIR-S</th>
<th>AV5756DNIR-S</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Image Sensor</strong></td>
<td>1080p (2.1MP) CMOS Progressive</td>
<td>5MP CMOS Progressive</td>
<td>1080p (2.1MP) CMOS Progressive</td>
<td>5MP CMOS Progressive</td>
</tr>
<tr>
<td><strong>Optical Format</strong></td>
<td>1/2.8&quot;</td>
<td>1/2.8&quot;</td>
<td>1/2.8&quot;</td>
<td>1/2.8&quot;</td>
</tr>
<tr>
<td><strong>Minimum Illumination</strong></td>
<td>Color (Day Mode) 0.04 Lux</td>
<td>0.10 Lux</td>
<td>0.04 Lux</td>
<td>0.10 Lux</td>
</tr>
<tr>
<td></td>
<td>B/W (Night Mode) 0.004 Lux</td>
<td>0.010 Lux</td>
<td>0.004 Lux</td>
<td>0.010 Lux</td>
</tr>
<tr>
<td><strong>Full FOV Resolution</strong></td>
<td>1920 H x 1080 V</td>
<td>2592 H x 1944 V</td>
<td>1920 H x 1080 V</td>
<td>2592 H x 1944 V</td>
</tr>
<tr>
<td><strong>Scaling</strong></td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>IR Illumination</strong></td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Dynamic Range</strong></td>
<td>120dB</td>
<td>120dB</td>
<td>120dB</td>
<td>120dB</td>
</tr>
<tr>
<td><strong>Frame Rates</strong></td>
<td>Single Stream Up to 30fps (1080p)</td>
<td>Up to 30fps (5MP)</td>
<td>Up to 30fps (1080p)</td>
<td>Up to 30fps (5MP)</td>
</tr>
<tr>
<td></td>
<td>Multi-Stream</td>
<td>Up to 15fps (5MP)+ 15fps (5MP)</td>
<td>Up to 30fps (1080p) + 20fps (1080p)</td>
<td>Up to 15fps (5MP) + 10fps (5MP)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Up to 30fps (1080p) + 30fps (720p) + 30fps (VGA)</td>
<td>Up to 30fps (1080p) + 30fps (720p) + 30fps (VGA)</td>
</tr>
<tr>
<td><strong>Lens</strong></td>
<td>Fixed Iris</td>
<td>MPM2.8C</td>
<td>2.8mm, 1/2.7&quot;, F/2.0, IR corrected, M12-mount</td>
<td>2.8mm, 1/2.7&quot;, F/2.0, IR corrected, M12-mount</td>
</tr>
<tr>
<td><strong>H-FOV</strong></td>
<td>106.7°</td>
<td>98°</td>
<td>106.7°</td>
<td>98°</td>
</tr>
</tbody>
</table>

### Programmability

- **Optics**: M12 lens and remote focus module
- **Low-Light Performance**: NightView technology
- **Programmable Shutter Speed**: Auto/manual 0.1ms – 500ms
- **Motion Detection**: Real-time, 1024 detection zones
- **Privacy Masking**: Unlimited
- **Backlight Compensation**: Auto
- **White Balance Mode**: Auto/manual
- **Gain Control**: Auto
- **Flicker Control**: 5Hz–255Hz adjustable
- **Image Rotation**: CorridorView (90°, 180°, and 270° image rotation) + mirror
- **Scaling**: 1080p 1920x1080, 1280x720, 960x540, 640x480, 640x360, 320x240
- **Wide Dynamic Range**: Adjustment between WDR and LDR modes
- **Efficiency**: SNAPstream+ (Smart Noise Adaptation and Processing)
- **Defog**: Supported
- **Miscellaneous**: Programmable brightness, contrast, sharpness, saturation, hue
- **Password**: 16-digit ASCII character password
- **On-Screen Display (OSD)**: Time/date/camera name/custom text

### Data Transmission

- **Compression Type**: H.265/H.264 (MPEG-4, Part 10/Motion JPEG)
- **Bit Rate Control**: 64K–8000K
- **Smart Codec**: Smart GOP/Smart ROI
- **Transmission Protocols**: SNMP, HTTP, HTTPS, IPv6, IPv4, SSL/TCP/UDP, UDP, RTP, RTP, RTSP, SMTP, FTP, HTTP, UPnP, URP, UMP, Zero Configuration
- **Multi-Streaming**: 2 x H.265/H.264 stream, 1 x MJPEG stream
- **Users**: Live viewing/Administrator for up to 10 clients

### Event Management

- **Event Trigger**: Motion detection, tampering detection, alarm in
- **Notifications**: Send a message via e-mail/FTP/NAS, SD Card Recording, Record JPG/MP4

### Compliance

- **Industry Standard**: ONVIF Profile S, G, and T Conformant
- **Listings**: UL60950-1, E489591
- **FCC Compliance**: 47 CFR 15 Class A
- **Environmental**: RoHS, REACH, WEEE
- **Markings**: CE: EN55032 Class A, EN55035, EN61000-3-2, EN61000-3-3, IEC 62471 (IR-S Models Only)
- **Mechanical**: IK-10 (EN62262), IP66 (EN60529)

### Environmental

- **Operating Temperature**: -5°C (23°F) to +50°C (122°F) (IR-S Models)
- **Humidity**: 5% to 90% (non-condensing)
- **Storage Temperature**: -40°C (40°F) to +60°C (140°F)

### General Electrical

- **Alarm Input/Output**: 1 input (wet contact)/1 output (wet contact)
- **Power Over Ethernet**: PoE IEEE 802.3af, Class 3
- **Power Consumption**: 1080p - F Models 5.5W PoE max, IR-S Models 7.5W PoE max, 5MP - F Models 5.5W PoE max, IR-S Models 7.5W PoE max
- **Power Over Ethernet**: PoE IEEE 802.3af, Class 3
- **Total PoE solution (no external power)**

### Audio Electrical

- **Streaming**: Two-way
- **Compression**: G.711 PCM 8 kHz
- **Input/Output**: Line in/ Line output
- **Microphone**: Integrated (-F Models)

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1. 30 frames per second (FPS) maximum with H.264 and H.265 compression at 60 hertz (Hz), up to 25fps maximum at 50Hz
2. Max FPS with Enhanced WDR turned on will be up to 50% of listed FPS
3. Requires Amplification
4. 2.8mm standard lens (not included with -NL models)
IR Illuminator

<table>
<thead>
<tr>
<th>LEDs</th>
<th>3 pcs 850nm LEDs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Projection Distance</td>
<td>50ft (15m) IR distance (max) / 80° IR angle</td>
</tr>
</tbody>
</table>

### Mechanical

<table>
<thead>
<tr>
<th>Casing</th>
<th>Tamper-resistant housing, IK-10 impact-resistant</th>
</tr>
</thead>
<tbody>
<tr>
<td>-F Model</td>
<td>In-ceiling mount with die-cast aluminum cover and 2” polycarbonate dome bubble</td>
</tr>
<tr>
<td>IR-S Model</td>
<td>Surface mount with die-cast aluminum housing and 2” polycarbonate dome bubble</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Lens</th>
<th>2.8mm board mount (M12), fixed iris, F/2.0 (except -NL models)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gimbal</td>
<td>Easy 3-axis camera adjustment w/ 359° pan and 90° tilt and 360° z-axis</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Dimensions (See Dimensions)</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ø 4” (100mm) x 3.1” H (78.5mm)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Weight</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.95lbs (0.43kg)</td>
<td></td>
</tr>
</tbody>
</table>

| Weight Packaged | 1.3lbs (0.6kg) |

| On Board Storage | MicroSDXC slot up to 256GB (card not included) |

| Body Color | AV Costar White (Pantone® Cool Gray 1C) |

### Quick Installation (Flush mount models)

1. Push the three spring actuated retention arms in the upward position.

2. The retention arms lock into place.
**Megapixel Camera Ordering Information**

**Model Numbers**

<table>
<thead>
<tr>
<th>1080p</th>
<th>5MP</th>
</tr>
</thead>
<tbody>
<tr>
<td>AV2756DN-F</td>
<td>AV5756DN-F</td>
</tr>
<tr>
<td>AV2756DNIR-S</td>
<td>AV5756DNIR-S</td>
</tr>
<tr>
<td>AV2756DN-F-NL</td>
<td>AV5756DNIR-S-NL</td>
</tr>
</tbody>
</table>

**Accessories**

- **AV-1AK**: ConteraIP Optional Audio Kit
- **AV-CRMA-W**: Corner Mount Adapter (AV Costar White)
- **AV-JBA-W**: Standard Junction Box (AV Costar White)
- **AV-PMA-W**: Pole Mount Adapter (AV Costar White)
- **MCD-CMT-W**: Pendant Mount and Cap with 1/2” NPT Standard for ConteraIP MicroDome LX Series (AV Costar White)
- **MCD-CMT**: In-room Corner Mount Adapter for ConteraIP MicroDome LX Series (AV Costar Gray)
- **MCD-EBA**: Round Electrical Box Adapter Plate for ConteraIP MicroDome LX Series (AV Costar Gray)
- **MCD-JBAS-W**: Mount Plate for ConteraIP MicroDome LX Series for use with the AV-JBA-W (AV Costar White)
- **MCD-WMT-W**: Wall Mount and Cap with 1/2” NPT Standard for ConteraIP MicroDome LX Series (AV Costar White)
- **MCD-4S**: Electrical Box Surface Mount Cover Fits 3rd Party 4-inch Square Box 2-1/8 Inch Deep (e.g. Lowe’s® Item # 4788) for ConteraIP MicroDome LX Series (AV Costar Gray)

**Lens Options**

<table>
<thead>
<tr>
<th>Model</th>
<th>Focal Length</th>
<th>Horizontal Field of View</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPM2.4</td>
<td>2.4mm</td>
<td>135°, 126°</td>
</tr>
<tr>
<td>MPM2.8C</td>
<td>2.8mm</td>
<td>106.7°, 98°</td>
</tr>
<tr>
<td>MPM4.0A</td>
<td>4mm</td>
<td>74.7°, 68.6°</td>
</tr>
<tr>
<td>MPM6.0A</td>
<td>6mm</td>
<td>49.8°, 45.7°</td>
</tr>
<tr>
<td>MPM8.0A</td>
<td>8mm</td>
<td>37.3°, 34.3°</td>
</tr>
<tr>
<td>MPM12.0A</td>
<td>12mm</td>
<td>24.9°, 22.9°</td>
</tr>
<tr>
<td>MPM16.0A</td>
<td>16mm</td>
<td>18.7°, 17.2°</td>
</tr>
</tbody>
</table>

**Configurations**

- Flush Mount (-F)
- Surface Mount with IR LEDs (-IR-S)

**Create Your Model**

(Example: AV5756DNIR-S)

<table>
<thead>
<tr>
<th>Megapixel Resolution</th>
<th>Body Generation</th>
<th>Body Type</th>
<th>Compression</th>
<th>True Day/Night</th>
<th>Infrared</th>
<th>Mount Type</th>
<th>Lens</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>5</td>
<td>7</td>
<td>5</td>
<td>6</td>
<td>Non-IR</td>
<td>F</td>
<td>2.8mm Lens</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>IR</td>
<td>S</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>NL</td>
</tr>
</tbody>
</table>

1. Standard lens for ConteraIP MicroDome LX except on -NL models
2. Requires two spacers on focus module (included with lens)
3. Requires a spacer on focus module (included with lens)
4. All accessories except the AV-1AK are IR-S models only
5. Use with MCD-JBAS
6. No IR function
7. “75” represents ConteraIP MicroDome LX product line
8. Surface mount models only