**ConteraIP® MicroDome® Duo LX Megapixel Camera**

4, 10, or 16 Megapixel (MP) H.265/H.264 All-in-One Remote Setup Omni-Directional User-Configurable Multi-Sensor True Day/Night Indoor/Outdoor Dome IP Cameras with SNAPstream+™ (Smart Noise Adaptation and Processing), WDR (Wide Dynamic Range), and NightView™ Models

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**The ConteraIP MicroDome Duo LX features twin multi-megapixel cameras in a compact housing, and is ideal for a variety of professional indoor/outdoor surveillance requirements. Applications include coverage of a hallway or walkway, monitoring POS terminals or ATMs, or for viewing of a single wide area or two distinct regions.**

ConteraIP MicroDome Duo LX is available with a choice of 4-, 10-, or 16-megapixel (MP) resolutions. These cameras provide an all-in-one solution for capturing wide area video surveillance while maximizing the field-of-view and reducing the total number of cameras required saving installers time and end users money.

The ConteraIP MicroDome Duo LX is ideal for applications with challenging lighting conditions regardless the time of day, supported by dual day/night mechanical IR cut filters. For clear color images in low-light, NightView offers strong low-light sensitivity for capturing details in extremely poor-lit scenes. Power can be supplied via a single PoE (IEEE 802.3af) compliant network cable or via an 12–48V DC/24V AC power supply.

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**Series Features**

- 4MP, 10MP, and 16MP Models
- Remote Focus
- Easily Adjustable 3-Axis Gimbal
- Multiple Lens Options in a Single Camera Housing
- SNAPstream+ Advanced Compression Algorithm Reduces Bandwidth without Impacting Image Quality
- NightView for Strong Low Light Performance
- True Day/Night Functionality with Mechanical IR Cut Filter
- On-Screen Display (OSD)
- WDR at Full Resolution: See Clearly in Shaded and Bright Light Conditions Simultaneously
- Privacy Mask, Motion Detection, Bit Rate Control, Multi-Streaming, and Multicasting
- 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 Total PoE Solution PoE and Auxiliary Power: 12V-48V DC/24V AC
- MicroSDXC Card Slot for Onboard Storage
- Ultra Discrete, Low-Profile Housing
- Outdoor Rated IP66 and IK-10 Impact-Resistant Housing

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**AV Costar™ was the first to bring H.264 to the mainstream market and recently developed SNAPstream™ (Smart Noise Adaptation and Processing) technology for reducing bandwidth without impacting image quality. Today we are proud to offer our next generation H.265 with SNAPstream+ smart codec capable of delivering high quality video while saving over 50% of the data rate to reduce or prevent strain on the network.**

The installer-friendly ConteraIP MicroDome Duo LX enclosure shortens the installation process. ConteraIP MicroDome Duo LX is designed for demanding environments. Certified to rigorous dust and water tests, the camera carries an IP66 rating. The rugged dome housing is IK-10 rated to withstand the equivalent of 55 kg (120 lbs) of force for vandal-prone applications.

AV Costar™ was the first to bring H.264 to the mainstream market and recently developed SNAPstream™ (Smart Noise Adaptation and Processing) technology for reducing bandwidth without impacting image quality. Today we are proud to offer our next generation H.265 with SNAPstream+ smart codec capable of delivering high quality video while saving over 50% of the data rate to reduce or prevent strain on the network.

The ConteraIP MicroDome Duo LX is ONVIF (Open Network Video Interface Forum) Profile S, G, and T compliant, providing interoperability between network video products regardless of manufacturer.

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**ConteraIP®**

**AV Costar™**

+1.818.937.0700 | www.avcostar.com | avsales@arecontvision.com
## Camera Imaging Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>AV4856DN</th>
<th>AV10856DN</th>
<th>AV16856DN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Image Sensor (CMOS)</td>
<td>4MP (1080p x 2) CMOS Progressive Sensor</td>
<td>10MP (5MP x 2) CMOS Progressive Sensor</td>
<td>16MP (8MP x 2) CMOS Progressive Sensor</td>
</tr>
<tr>
<td>Optical Format</td>
<td>1/2.8&quot;</td>
<td>1/2.8&quot;</td>
<td>1/2.8&quot;</td>
</tr>
<tr>
<td>Pixel Pitch</td>
<td>2.9μm</td>
<td>2.0μm</td>
<td>1.45μm</td>
</tr>
<tr>
<td>Minimum Illumination</td>
<td>Color (Day Mode) 0.04 Lux</td>
<td>B/W (Night Mode) 0.004 Lux</td>
<td>B/W (Night Mode) 0.010 Lux</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>0.015 Lux</td>
</tr>
<tr>
<td>Full FOV Resolution</td>
<td>Total 3840 H x 1080 V</td>
<td>Total 5184 H x 1944 V</td>
<td>Total 7680 H x 2160 V</td>
</tr>
<tr>
<td>Dynamic Range</td>
<td>Up to 100dB*</td>
<td>Up to 100dB*</td>
<td>Up to 100dB*</td>
</tr>
<tr>
<td>Frame Rates **</td>
<td>At Max Resolution 30fps (4MP)</td>
<td>Up to 30fps (4MP) + 30fps (4MP)</td>
<td>Up to 30fps (4MP) + 30fps (4MP)</td>
</tr>
<tr>
<td></td>
<td>Multi-Stream</td>
<td>Multi-Stream</td>
<td>Multi-Stream</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lens (x2)</td>
<td>2.8mm Lens Option (-28 Models) 2.8mm, F2.0, H-FOV = 106.7°</td>
<td>2.8mm, F2.0, H-FOV = 98°</td>
<td>2.8mm, F1.6, H-FOV = 106.7°</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
- **Scaling (Per Sensor)**: 4MP 1920x1080, 1280x960, 1280x720, 960x540, 800x600, 640x480, 640x360; 10MP 2592x1944, 2560x1440, 2304x1296, 2048x1536, 1920x1080, 1600x1200, 1296x972, 1280x960, 1280x720, 800x600, 640x480; 16MP 3840x2160, 2592x1944, 2560x1440, 2048x1536, 1920x1080, 1600x1200, 1296x972, 1280x960, 1280x720, 800x600, 640x480, 640x360
- **Wide Dynamic Range**: Adjustment between WDR and LDR modes
- **Efficiency**: SNAPstream+ (Smart Noise Adaptation and Processing)
- **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
- **Network Protocols**: SNMP, HTTP, HTTPS, IPv6, IPv4, SSL, TCP/IP, UPnP, RTSP, RTP, SMPT, NTR, DHCP, FTP, 802.11x, QoS, DDNS, Zero Configure
- **Network Interface**: 10/100/1000Mbps Ethernet, RJ45
- **Max Camera Bandwidth**: 20Mbps (10Mbps per sensor)
- **Multi-Streaming**: 2 x H.265/H.264 stream, 1 x M-JPEG stream (per sensor)
- **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

### Environmental
- **Operating Temperature**: -40°C (-40°F) to +50°C (122°F)
- **Humidity**: 0% to 90% (non-condensing)
- **Storage Temperature**: -40°C (-40°F) to +60°C (140°F)

### Electrical
- **Alarm Input/Output**: 1 input (wet contact)/1 output (wet contact)
- **Power Over Ethernet**: PoE IEEE 802.3af, Class 3
- **Auxiliary Power**: 12-48V DC, 24V AC
- **Power Consumption**: 10.5W max

### Audio Electrical
- **Streaming**: Two-way
- **Compression**: G.711 PCM 8 kHz
- **Input/Output**: Line in***/Line output

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*Maximum with digital WDR
**Maximum with H.264 compression
***Requires Amplification

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**Notes**: *Maximum with digital WDR
**Maximum with H.264 compression
***Requires Amplification
### Mechanical

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casing</td>
<td>Die-cast aluminum chassis with polycarbonate dome bubble</td>
</tr>
<tr>
<td></td>
<td>IP66 weather proof standard</td>
</tr>
<tr>
<td></td>
<td>Impact resistant, IK-10 rated</td>
</tr>
<tr>
<td>Mount</td>
<td>Mount plate with electrical box adapter holes (included)</td>
</tr>
<tr>
<td>Gimbal</td>
<td>Easily adjustable, 3-axis w/360° pan, 90° tilt, and 360° z-axis</td>
</tr>
</tbody>
</table>

### Dimensions

<table>
<thead>
<tr>
<th>Dimensions (See Dimensions)</th>
<th>Unit</th>
<th>Packaged</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.83&quot; H (71.9mm) x 4.06&quot; W (103mm) x 6.42&quot; L (163mm)</td>
<td>3.74&quot; H (95mm) x 4.72&quot; W (120mm) x 7.09&quot; L (180mm)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Weight</th>
<th>Unit</th>
<th>Packaged</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.2lbs (1.0kg)</td>
<td>2.6lbs (1.2kg)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>On Board Storage</th>
<th>MicroSDXC slot up to 256GB (card not included)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Body Color</td>
<td>AV Costar White (Pantone® Cool Gray 1C)</td>
</tr>
</tbody>
</table>

### Quick Installation

- **Unit**: 1.94" (49.4mm)
- **Unit**: 0.84" (21.4mm)
- **Unit**: 6.42" (163mm)
- **Packaged**: 4.06" (103mm)
- **Unit**: 4" (101.5mm)
- **Unit**: 0.98" (25mm)
- **Unit**: 3.21" (81.5mm)
- **Packaged**: 3/4" NPT (19.05mm)
- **Packaged**: R 1.02" (26mm)
- **Packaged**: R 2.03" (51.5mm)
ConteraIP® MicroDome Duo LX Megapixel Cameras

Ordering Information

Model Numbers

<table>
<thead>
<tr>
<th>Resolution</th>
<th>Model Numbers</th>
</tr>
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<tbody>
<tr>
<td>4MP</td>
<td>AV4865DN-28</td>
</tr>
<tr>
<td></td>
<td>AV4865DN-NL</td>
</tr>
<tr>
<td>10MP</td>
<td>AV10856DN-28</td>
</tr>
<tr>
<td></td>
<td>AV10856DN-NL</td>
</tr>
<tr>
<td>16MP</td>
<td>AV16856DN-28</td>
</tr>
<tr>
<td></td>
<td>AV16856DN-NL</td>
</tr>
</tbody>
</table>

Lens Options (Sold Separately)

<table>
<thead>
<tr>
<th>Model</th>
<th>Focal Length</th>
<th>1080p</th>
<th>5MP</th>
<th>8MP</th>
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</thead>
<tbody>
<tr>
<td>MPM2.4</td>
<td>2.4mm</td>
<td>135°</td>
<td>126°</td>
<td>135°</td>
</tr>
<tr>
<td>MPM2.8*</td>
<td>2.8mm</td>
<td>106.7°</td>
<td>98°</td>
<td>106.7°</td>
</tr>
<tr>
<td>MPM4.0A*</td>
<td>4mm</td>
<td>74.7°</td>
<td>68.6°</td>
<td>74.7°</td>
</tr>
<tr>
<td>MPM6.0A*</td>
<td>6mm</td>
<td>49.8°</td>
<td>45.7°</td>
<td>49.8°</td>
</tr>
<tr>
<td>MPM8.0A*</td>
<td>8mm</td>
<td>37.3°</td>
<td>34.3°</td>
<td>37.3°</td>
</tr>
<tr>
<td>MPM12.0A³</td>
<td>12mm</td>
<td>24.9°</td>
<td>22.9°</td>
<td>24.9°</td>
</tr>
<tr>
<td>MPM16.0A³</td>
<td>16mm</td>
<td>18.7°</td>
<td>17.2°</td>
<td>18.7°</td>
</tr>
</tbody>
</table>

Create Your Model (Example: AV16856DN-28)

<table>
<thead>
<tr>
<th>Megapixel Resolution</th>
<th>Generation</th>
<th>Body Type</th>
<th>Compression</th>
<th>True Day/Night</th>
<th>Lens</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>10</td>
<td>8</td>
<td>5</td>
<td>6</td>
<td>NL</td>
</tr>
</tbody>
</table>

1. MPM2.8 (2.9mm) is the default lens for -28 models
2. Requires two spacers on focus module (included with lens)
3. Requires a spacer on focus module (included with lens)

Accessories (Sold Separately)

- 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)
- MDD-CMT-W: Pendant Mount and Cap with 1/2" NPT Standard for ConteraIP MicroDome Duo LX (AV Costar White)
- MDD-WMT-W: Wall Mount and Cap with 1/2" NPT Standard for ConteraIP MicroDome Duo LX (AV Costar White)
- MDD-FMA: Flush Mount Adapter for ConteraIP MicroDome Duo LX (White)

Macrotex 2.8mm (2.8mm) is the default lens for -28 models.

2. Requires two spacers on focus module (included with lens)
3. Requires a spacer on focus module (included with lens)