The Synectics HD IP Micro Dome is equipped with a Full HD progressive scan CMOS sensor supplied in an IP66 rated enclosure providing outstanding video resolution at up to 2 megapixels.

E-mark type approved for use in motor vehicles, including buses, the Micro Dome is ideal for mobile applications and small locations.
## Specifications

<table>
<thead>
<tr>
<th>Camera</th>
<th>SY-FDEF3.6-LLX</th>
</tr>
</thead>
<tbody>
<tr>
<td>Image Sensor</td>
<td>2MP Sony 1/2.8&quot; Progressive CMOS</td>
</tr>
<tr>
<td>Effective Pixels</td>
<td>1920 (H) x 1080 (V)</td>
</tr>
<tr>
<td>Resolution</td>
<td>Full HD 1080P / SXGA / HD 720P / XGA / SVGA / D1 / VGA / CIF / QCIF @50/60fps or 25/30fps (True WDR)</td>
</tr>
<tr>
<td>Min Illumination Color</td>
<td>0.01 lux</td>
</tr>
<tr>
<td>Min Illumination B&amp;W</td>
<td>0.0005 lux</td>
</tr>
<tr>
<td>Shutter Speed</td>
<td>1 – 1/10000 Second</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Lens</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Lens Mount</td>
<td>N/A</td>
</tr>
<tr>
<td>Lens</td>
<td>Fixed Lens 3.6mm</td>
</tr>
<tr>
<td>FOV</td>
<td>80° (H) 44° (V)</td>
</tr>
<tr>
<td>F Number</td>
<td>F1.8</td>
</tr>
<tr>
<td>P Iris</td>
<td>N/A</td>
</tr>
<tr>
<td>Focus Mode</td>
<td>N/A</td>
</tr>
<tr>
<td>Digital Zoom</td>
<td>16x</td>
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<table>
<thead>
<tr>
<th>PTZ Options</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Pan Travel</td>
<td>N/A</td>
</tr>
<tr>
<td>Tilt Travel</td>
<td>N/A</td>
</tr>
<tr>
<td>Manual Speed</td>
<td>N/A</td>
</tr>
<tr>
<td>Presets</td>
<td>N/A</td>
</tr>
<tr>
<td>Preset Accuracy</td>
<td>N/A</td>
</tr>
<tr>
<td>Preset Speed</td>
<td>N/A</td>
</tr>
<tr>
<td>Sequence</td>
<td>N/A</td>
</tr>
<tr>
<td>Auto Pan</td>
<td>N/A</td>
</tr>
<tr>
<td>Cruise</td>
<td>N/A</td>
</tr>
<tr>
<td>Proportional Pan / Tilt</td>
<td>N/A</td>
</tr>
<tr>
<td>Home Function</td>
<td>N/A</td>
</tr>
<tr>
<td>Auto Flip</td>
<td>N/A</td>
</tr>
<tr>
<td>Image Rotation</td>
<td>Flip / Mirror / Inverse / Portrait</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Streaming Options</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Compression</td>
<td>H.264</td>
</tr>
<tr>
<td>ONVIF Profile</td>
<td>S / G</td>
</tr>
</tbody>
</table>
| Stream | PAL: H.264 1080P(50 fps) + H.264/MJPEG D1 (50 fps)  
NTSC: H.264 1080P(60 fps) + H.264/MJPEG D1 (30 fps) |
| Stream 1 Max Resolution and FPS | H.264 1080P @ 50 fps |
| Stream 2 Max When Stream 1 Set Max Resolution and FPS | H.264/MJPEG D1 @ 50 fps |
| Stream 1 1080P Resolution and Max FPS | H.264 1080P @ 60 fps |
| Stream 2 Max when Stream 1 Set 1080P Resolution and Max FPS | H.264/MJPEG D1 @ 30 fps |
| Minimum / Maximum Bitrate | 64 / 8195 (kbps) |
# OPERATION

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>ICR</td>
<td>N/A</td>
</tr>
<tr>
<td>LED Numbers</td>
<td>N/A</td>
</tr>
<tr>
<td>LED Distance</td>
<td>N/A</td>
</tr>
<tr>
<td>White Balance</td>
<td>Manual / AWB / ATW / One Push</td>
</tr>
<tr>
<td>NR</td>
<td>3D</td>
</tr>
<tr>
<td>BLC</td>
<td>On / Off</td>
</tr>
<tr>
<td>WDR</td>
<td>True WDR (&gt;120dB)</td>
</tr>
<tr>
<td>DIS / EIS</td>
<td>Y</td>
</tr>
<tr>
<td>Motion Detection</td>
<td>On / Off / Schedule</td>
</tr>
<tr>
<td>Privacy Mask Type</td>
<td>8 Colors / 5 sets</td>
</tr>
<tr>
<td>Tamper Alarm</td>
<td>On / Off / Schedule</td>
</tr>
<tr>
<td>Audio Type</td>
<td>N/A</td>
</tr>
<tr>
<td>Audio In</td>
<td>N/A</td>
</tr>
<tr>
<td>Audio Out</td>
<td>N/A</td>
</tr>
<tr>
<td>Audio Sample Rate</td>
<td>N/A</td>
</tr>
<tr>
<td>Analog Out</td>
<td>N/A</td>
</tr>
<tr>
<td>Heater</td>
<td>N/A</td>
</tr>
<tr>
<td>Fan</td>
<td>N/A</td>
</tr>
<tr>
<td>Alarm Input</td>
<td>N/A</td>
</tr>
<tr>
<td>Alarm Output</td>
<td>N/A</td>
</tr>
<tr>
<td>Event Notification</td>
<td>HTTP / FTP / SMTP</td>
</tr>
<tr>
<td>SD Card Support</td>
<td>microSDHC 32GB Support</td>
</tr>
<tr>
<td>Ethernet Connector</td>
<td>RJ-45 Cable</td>
</tr>
<tr>
<td>Power Connector</td>
<td>DC Jack</td>
</tr>
<tr>
<td>O/I Connector</td>
<td>N/A</td>
</tr>
<tr>
<td>Protocol</td>
<td>IPv4/IPv6, TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, ICMP, FTP, SMTP, DHCP, PPPoE, UPnP, IGMP, SNMP, QoS, ONVIF S, ONVIF G</td>
</tr>
<tr>
<td>Security</td>
<td>HTTPS / IP Filter / IEEE 802.1X</td>
</tr>
</tbody>
</table>

# ENVIRONMENTAL

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Temperature</td>
<td>-10°C ~ 50°C (14° ~ 122° F)</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-20°C ~ 65°C (4° ~ 149° F)</td>
</tr>
<tr>
<td>Humidity</td>
<td>10% ~ 90%, No Condensation</td>
</tr>
<tr>
<td>Vandal Resistant</td>
<td>IK8</td>
</tr>
<tr>
<td>IP Rating</td>
<td>IP66</td>
</tr>
</tbody>
</table>
### GENERAL

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power</td>
<td>PoE / DC12V</td>
</tr>
<tr>
<td>Power Priority 1</td>
<td>PoE</td>
</tr>
<tr>
<td>Power Priority 2</td>
<td>DC</td>
</tr>
<tr>
<td>Power Priority 3</td>
<td>N/A</td>
</tr>
<tr>
<td>Power Failover</td>
<td>N/A</td>
</tr>
<tr>
<td>PoE Classification</td>
<td>Class 2</td>
</tr>
<tr>
<td>Power Consumption (Total Unit)</td>
<td>Max: 4.2W</td>
</tr>
<tr>
<td>Dimensions</td>
<td>Ø 110.2 x 47.7 mm (Ø 4.3” x 1.9”)</td>
</tr>
<tr>
<td>Weight</td>
<td>180 g (0.40 lb)</td>
</tr>
<tr>
<td>Certification</td>
<td>CE / FCC</td>
</tr>
<tr>
<td>Color Options</td>
<td>Grey (Part Number SYFDEF3.6-G-LLX)</td>
</tr>
<tr>
<td></td>
<td>White (Part Number SYFDEF3.6-W-LLX)</td>
</tr>
</tbody>
</table>

NOTE: *1 If multiple power inputs are to be used simultaneously on the camera (such as AC power + PoE or DC power + PoE) all power supplies must be isolated power supplies. If non-isolated power supplies are deployed, they must be used in conjunction with appropriate isolation between each individual camera and the non-isolated power supply.