Sarix® IMP Indoor and Environmental Mini Domes
UP TO 5 MEGAPIXEL, H.264, IR, DAY/NIGHT IP DOMES

Product Features

- Up to 5 megapixel (MPx) resolution
- Up to 30 images per second (ips) at 3 MPx
- Autofocus motorized remote zoom lens
- Integrated adaptive IR illumination (environmental IR models)
- Operating temperature up to 55°C (131°F)
- Up to 64 GB edge storage with Micro SD card
- Motion detection and camera sabotage detection
- Power over Ethernet (PoE+) Class 4, 24 VAC (environmental models)
- All models vandal resistant to IK10
- PoE, 24 VAC, 12 VDC (indoor models)
- Compatible with Pelco and third-party video systems
- ONVIF Profile S and Profile G conformant
- Full 3-year warranty and support

Sarix Professional Range

Powerful, versatile, and affordable, the Sarix® Professional (P) range cameras pack the most popular features and functionality of Sarix technology into a wide range of indoor and outdoor options, including bullet cameras and mini domes. There are also indoor-only options such as a vandal resistant wedge and micro dome. Mix and match the performance options and form factor you need for almost any lighting condition, environment, and application.

Camera

Within the Sarix Professional range, the Sarix IMP Series mini dome cameras feature a remote zoom lens for wide angle or long range surveillance needs. Autofocus capability ensures the camera can be automatically refocused when needed. Additionally, the Sarix IMP Series features advanced color science and a mechanical IR cut filter for increased sensitivity in low-light installations.

Video

Sarix Professional range cameras support up to two simultaneous video streams and a third service stream. The two streams can be compressed with efficient H.264 High or Main profiles or MJPEG formats. The streams can be configured to a variety of frame rates and variable bit rates to optimize image quality with bandwidth and storage efficiency.

Edge Storage

Sarix Professional range cameras feature onboard edge storage with a micro SD card. Video clips of varying lengths can be stored to the card upon alarm, or video can be written continuously to the SD card in the case of network outage. Video can be retrieved from the card through the FTP protocol or by using an ONVIF Profile G enabled client.

Sarix Professional range cameras feature a simple motion detection algorithm that allows the camera to record or send an alarm when there is motion detected in a selected zone or within the entire scene. A camera sabotage alarm is triggered if the lens is obstructed or when the camera is repositioned.

Open and Integrated

Sarix Professional range cameras seamlessly connect to Pelco video management systems such as VideoXpert®, Endura® version 2.0 (or later), and Digital Sentry® version 7.3 (or later). Sarix Professional range cameras integrate with major third-party systems through the open Pelco API or the ONVIF Profile S and Profile G standards.

Standard Web Interface

Pelco cameras use a standard Web browser interface for easy remote setup and administration. Controls are optimized for convenient one-step camera configuration for features including color, exposure, flicker control, and streaming.
**TECHNICAL SPECIFICATIONS**

**BACK BOX FEATURES**

VALUES IN PARENTHESES ARE INCHES; ALL OTHERS ARE CENTIMETERS.

**Indoor Surface Mount**
- Plastic body and trim ring; polycarbonate bubble
- White, RAL 9003
- IK10 (20J) Impact Resistance
- PoE, 24 VAC, 12 VDC

**Environmental Surface Mount**
- Aluminum body and trim ring; polycarbonate bubble
- Telegray, RAL 9022
- IP66 Ingress Protection
- Type 4X
- IK10 (20J) Impact Resistance
- 24 VAC and PoE+ Class 4 only
TECHNICAL SPECIFICATIONS

CAMERA

<table>
<thead>
<tr>
<th>MPx</th>
<th>MPx</th>
<th>Sensor</th>
<th>Maximum Resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 MPx</td>
<td>1/1.8-inch</td>
<td>2592 x 1944 (5.0 MPx)</td>
<td></td>
</tr>
<tr>
<td>3 MPx</td>
<td>1/2.8-inch</td>
<td>2048 x 1536 (3.1 MPx)</td>
<td></td>
</tr>
<tr>
<td>2 MPx</td>
<td>1/2.8-inch</td>
<td>1920 x 1080 (2.1 MPx)</td>
<td></td>
</tr>
<tr>
<td>1 MPx</td>
<td>1/3-inch</td>
<td>1280 x 960 (1.3 MPx)</td>
<td></td>
</tr>
</tbody>
</table>

Imager Type: CMOS
Imager Readout: Progressive scan
Electronic Shutter Range: 1/5 ~ 1/30,000 sec (1 and 5 MPx),
1/5 ~ 1/25,000 sec (2 MPx),
1/5 ~ 1/45,000 sec (3 MPx)
Wide Dynamic Range: 75 db
White Balance Range: 2,000° to 10,000°K
3D Noise Reduction: Yes (ON/OFF selectable)

Minimum Illumination

<table>
<thead>
<tr>
<th>MPx</th>
<th>Sensitivity</th>
<th>Color</th>
<th>Mono</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 MPx</td>
<td>f/1.2</td>
<td>0.30 lux</td>
<td>0.03 lux</td>
</tr>
<tr>
<td>3 MPx</td>
<td>f/1.2</td>
<td>0.25 lux</td>
<td>0.03 lux</td>
</tr>
<tr>
<td>2 MPx</td>
<td>f/1.2</td>
<td>0.25 lux</td>
<td>0.03 lux</td>
</tr>
<tr>
<td>1 MPx</td>
<td>f/1.4</td>
<td>0.05 lux</td>
<td>0.03 lux</td>
</tr>
</tbody>
</table>

Mechanical IR Cut Filter: Yes (AUTO/MANUAL selectable), with different set points on lux
IR Illumination: Adaptive IR up to 25 m; auto ON in night mode, or off
Signal to Noise Ratio: ≥50 dB

LENS

Lens Type: Built-in; varifocal
Focal Length: f/1.4, 3 ~ 10.5 mm
Focus: Autofocus, motorized
Zoom: Remote
Auto Iris Type: DC drive lens

Field of View*

<table>
<thead>
<tr>
<th>Lens</th>
<th>Angle of View</th>
<th>1 MPx</th>
<th>2 MPx</th>
<th>3 MPx</th>
<th>5 MPx</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 to 10.5 mm</td>
<td>Diagonal</td>
<td>110°~ 33°</td>
<td>116°~ 35°</td>
<td>115°~ 34°</td>
<td>110°~ 46°</td>
</tr>
<tr>
<td></td>
<td>Horizontal</td>
<td>85°~ 27°</td>
<td>100°~ 31°</td>
<td>88°~ 30°</td>
<td>88°~ 37°</td>
</tr>
<tr>
<td></td>
<td>Vertical</td>
<td>62°~ 19°</td>
<td>54°~ 17°</td>
<td>52°~ 16°</td>
<td>64°~ 27°</td>
</tr>
</tbody>
</table>

*Field of view may vary with changes in resolution settings.
TECHNICAL SPECIFICATIONS

**VIDEO**

**Video Streams**
Up to 2 simultaneous streams, plus service stream; the secondary stream is variable based on the setup of the primary stream

**Video Overlay**
Camera name, time, date, and customizable text with multiple supported languages

<table>
<thead>
<tr>
<th>Available Resolutions</th>
<th>Width</th>
<th>Height</th>
<th>Aspect Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.0 2592</td>
<td>1944</td>
<td>4:3</td>
<td></td>
</tr>
<tr>
<td>3.1 2048</td>
<td>1536</td>
<td>4:3</td>
<td></td>
</tr>
<tr>
<td>2.1 1920</td>
<td>1080</td>
<td>16:9</td>
<td></td>
</tr>
<tr>
<td>1.2 1280</td>
<td>960</td>
<td>4:3</td>
<td></td>
</tr>
<tr>
<td>0.9 1280</td>
<td>720</td>
<td>16:9</td>
<td></td>
</tr>
<tr>
<td>0.5 800</td>
<td>600</td>
<td>4:3</td>
<td></td>
</tr>
<tr>
<td>0.3 640</td>
<td>480</td>
<td>4:3</td>
<td></td>
</tr>
<tr>
<td>0.1 320</td>
<td>240</td>
<td>4:3</td>
<td></td>
</tr>
<tr>
<td>0.1 320</td>
<td>180</td>
<td>16:9</td>
<td></td>
</tr>
</tbody>
</table>

**Video Encoding**
H.264 High or Main profiles; and MJPEG

**Bit Rate Control**
Constant bit rate (CBR), constrained variable bit rate (CVBR) with configurable maximum value

**Corridor Mode**
Electronic image flip and mirror: 180°, 90° and 270° (H.264 only)

**Service Stream**
640 x 480 or 640 x 352; 2 ips, JPEG

**Window Blanking**
8 configurable windows

**Frame Rates**

<table>
<thead>
<tr>
<th>MPx</th>
<th>Images per Second (ips)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 MPx</td>
<td>15, 12.5, 10, 7.5, 5, 3, 2, 1</td>
</tr>
<tr>
<td>3 MPx</td>
<td>30, 25, 20, 16.67, 15, 12.5, 10, 7.5, 5, 3, 2, 1</td>
</tr>
<tr>
<td>2 MPx</td>
<td>30, 25, 20, 16.67, 15, 12.5, 10, 7.5, 5, 3, 2, 1</td>
</tr>
<tr>
<td>1 MPx</td>
<td>30, 25, 20, 16.67, 15, 12.5, 10, 7.5, 5, 3, 2, 1</td>
</tr>
</tbody>
</table>

**Note:** Available frame rates are selectable for each independent stream depending on the coding, resolution, and stream configuration.

**Audio**

**Streaming**
Dual-channel

**Input**
Line in and out

**Encoding**
G.711 A-law/G.711 U-law
## TECHNICAL SPECIFICATIONS

### ELECTRICAL

- **Network Port**: RJ-45 connector for 100Base-TX
- **Power Input**
  - PoE+ Class 4, 24 VAC and PoE+ (Environmental), PoE Class 2, 24 VAC nominal, 18 to 32 VAC range, 12 VDC (Indoor)
- **Power Consumption**
  - Indoor: <6 W
  - Outdoor: <1 W (with heater ring)
- **Local Storage**: Up to 64 GB on Micro SDHC or SDXC card
- **Alarm**
  - Input: 1
  - Output: 1; PhotoMOS™ relay (30 V, 1 A)
  - Triggers: Unsupervised mode that detects switch closures (N.O. and N.C.)

### ENVIRONMENTAL

- **Operating Temperature**
  - Outdoor: –40° to 55°C (–40° to 131°F)*
  - Indoor: –10° to 55°C (14° to 131°F)
- **Storage Temperature**: –40° to 60°C (–40° to 140°F)
- **Operating Humidity**: 5% to 90%, RH noncondensing

*Thermostatically controlled heating provides ramped heating control between the initial heater on at 15°C (59°F) and full heating mode at –40°C (–40°F).

### GENERAL

- **Construction**: Aluminum body and trim ring (environmental); plastic body and trim ring (indoor); polycarbonate bubble (indoor and environmental)
- **Finish**
  - Indoor: White, RAL 9003
  - Outdoor: Telegray 4, RAL 9022
- **Pan/Tilt Adjustment**
  - Pan: 370°
  - Tilt: 90°
  - Rotate: 355°
- **Unit Weight**: 0.61 kg (1.34 lb)
- **Shipping Weight**: 0.81 kg (1.79 lb)

### NETWORK

- **Supported Protocols**: TCP/IP, UDP/IP (unicast, multicast IGMP), ICMP, IPv4, IPv6, SNMP v2c/v3, HTTP, HTTPS, SSL, SSH, SMTP, FTP, RTSP, UHTTP, DNS, NTP, RTP, RTCP, LDAP (client), QoS, GB28181
- **Users**
  - Unicast: 1 administrator, up to 4 viewers
  - Multicast: Unlimited users
- **Security Access**: Multiple user access levels with password protection

### INTEGRATION

- **Video Management**: VideoXpert;
  - Endura 2.0 (or later);
  - Digital Sentry 7.3 (or later);
  - Third-party VMS through Pelco API, ONVIF Profile S, and ONVIF Profile G
- **Mobile Application**: Pelco Mobile
- **Analytics**: Simple motion detection and camera sabotage detection
- **Local Storage**: Capture 1-, 5-, or 10-second video clips on camera sabotage, motion detection, or alarm input; record video continuously in the case of network outage with option to overwrite; access video through FTP protocol and ONVIF Profile G
- **Camera Discovery and Firmware**: Discover cameras upgrade firmware upgrade using the Pelco Device Utility 2 version 2.2 or later; or Pelco Utilities
- **Web Browser Support**
  - Microsoft® Internet Explorer® 9.0, Apple® Safari® 7.0.6, Mozilla® Firefox® 31.0, Google® Chrome™ 37.0.2062.124 m and later
- **Multilingual User Interface**: English, French, German, Italian, Portuguese, Arabic, Russian, Spanish, Turkish, Korean, Simplified Chinese
TECHNICAL SPECIFICATIONS

SYSTEM MODEL NUMBERS*

<table>
<thead>
<tr>
<th>Back Box</th>
<th>Resolution</th>
<th>Lens</th>
<th>Model Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface</td>
<td>1 MPx</td>
<td>3 to 10.5 mm</td>
<td>IMP121-1ES</td>
<td>Sarix Pro Environmental Dome</td>
</tr>
<tr>
<td>Surface</td>
<td>1 MPx</td>
<td>3 to 10.5 mm</td>
<td>IMP121-1IS</td>
<td>Sarix Pro Indoor Dome</td>
</tr>
<tr>
<td>Surface</td>
<td>1 MPx</td>
<td>3 to 10.5 mm</td>
<td>IMP121-1RS</td>
<td>Sarix Pro Environment IR Dome</td>
</tr>
<tr>
<td>Surface</td>
<td>2 MPx</td>
<td>3 to 10.5 mm</td>
<td>IMP221-1ES</td>
<td>Sarix Pro Environmental Dome</td>
</tr>
<tr>
<td>Surface</td>
<td>2 MPx</td>
<td>3 to 10.5 mm</td>
<td>IMP221-1IS</td>
<td>Sarix Pro Indoor Dome</td>
</tr>
<tr>
<td>Surface</td>
<td>2 MPx</td>
<td>3 to 10.5mm</td>
<td>IMP221-1RS</td>
<td>Sarix Pro Environment IR Dome</td>
</tr>
<tr>
<td>Surface</td>
<td>3 MPx</td>
<td>3 to 10.5 mm</td>
<td>IMP321-1ES</td>
<td>Sarix Pro Environmental Dome</td>
</tr>
<tr>
<td>Surface</td>
<td>3 MPx</td>
<td>3 to 10.5 mm</td>
<td>IMP321-1IS</td>
<td>Sarix Pro Indoor Dome</td>
</tr>
<tr>
<td>Surface</td>
<td>3 MPx</td>
<td>3 to 10.5 mm</td>
<td>IMP321-1RS</td>
<td>Sarix Pro Environment IR Dome</td>
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<tr>
<td>Surface</td>
<td>5 MPx</td>
<td>3 to 10.5 mm</td>
<td>IMP521-1ES</td>
<td>Sarix Pro Environmental Dome</td>
</tr>
<tr>
<td>Surface</td>
<td>5 MPx</td>
<td>3 to 10.5 mm</td>
<td>IMP521-1IS</td>
<td>Sarix Pro Indoor Dome</td>
</tr>
<tr>
<td>Surface</td>
<td>5 MPx</td>
<td>3 to 10.5 mm</td>
<td>IMP521-1RS</td>
<td>Sarix Pro Environment IR Dome</td>
</tr>
</tbody>
</table>

*System options contain a back box/mount, camera, and clear dome.

CERTIFICATIONS*

- CE - EN 55022 (Class A), EN 50130-4, EN 60950-1
- FCC (Class A) - 47 CFR Part 15
- UL and cUL Listed - UL 60950-1, CAN/CSA-C22.2 No. 60950-1-07
- UL/IEC 60950-2-22
- ICES-003 (Class A)
- RCM
- KC
- ONVIF Profile S and Profile G conformant

*At the time of this publication, certifications are pending. Consult the factory or www.pelco.com for the current status of certifications.

RECOMMENDED MOUNTS

- IMPICM-1I In-ceiling wall mount, for use with the indoor models
- IMPICM-1ER In-ceiling wall mount, for use with the environmental models
- IMPPM-1I Pendant adapter, for indoor models
- IMPPM-1ER Pendant adapter, for environmental models
- IMPPMB-1I Wall mount bracket for indoor models (requires IMPEBAP adapter)

OPTIONAL ACCESSORIES

- IMPEBAP 4S electrical box adapter
- IMPLD2-01 Smoked lower dome (indoor)
- IMPLD2-0ER Smoked lower dome (environmental)

HOW TO ORDER

Example: IBP524-1ES

<table>
<thead>
<tr>
<th>IBP</th>
<th>5</th>
<th>2</th>
<th>4</th>
<th>1</th>
<th>E</th>
<th>S</th>
</tr>
</thead>
</table>

- IBP = Sarix
- 5 = 1st Generation
- 2 = 2nd Generation
- 4 = 3mm to 10.5mm
- 1 = Clear Dome
- E = Environment
- S = Surface Mount (Domes only)
- R = Environmental with IR
- I = Indoor

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