# Sarix® IMS0-E Series Environmental IP Mini Fixed Dome
## INDOOR/OUTDOOR, 0.5 MEGAPIXEL, STD DEFINITION DIGITAL CAMERA

## Product Features

- Up to 0.5 Megapixel Resolution (800 x 600)
- Up to 30 Images per Second (ips) at All Resolutions
- Compact Size with 3-Inch Bubble
- Autofocus Varifocal 2.8 ~ 10 mm Lens
- Vandal-Resistant, Indoor/Outdoor, Environmental
- H.264, MPEG-4 and MJPEG Compression
- Color and Day/Night Models
- Sensitivity Down to 0.03 lux
- Power over Ethernet (PoE), IEEE 802.3af
- Up to 2 Simultaneous Video Streams
- Electronic PTZ Through the Web Browser
- Open IP Standards

The **Sarix® IMS0-E Series** is a standard definition network indoor/outdoor fixed dome camera designed with industry-leading image quality and high performance processing power. Its sturdy metal design is tamper-resistant and is designed for worry-free use in a wide range of environmental operating conditions, such as environmental air handling spaces. The back box is plenum rated per 2008 NEC article 300.22(C)(2).

**Sarix** technology defines the next generation of video security imaging performance, delivering high resolution, advanced low-light capabilities, consistent color science, and fast processing power. The H.264 compression video files are considerably smaller, making network video storage more affordable.

### Fixed Dome Camera
The **IMS0-E Series** camera is a compact indoor/outdoor enclosure that is ready to install. Available in color and day/night models, all cameras feature an integrated autofocus varifocal 2.8 ~ 10 mm megapixel (MPx) lens. Additionally, the day/night model has a mechanical IR cut filter for increased sensitivity in low-light installations.

The **IMS0-E Series** supports two simultaneous video streams. The two streams can be compressed in MJPEG, MPEG-4, and H.264 formats across several resolution configurations. The streams can be configured in a variety of frame rates, bit rates, and group of pictures (GOP) structures for additional bandwidth administration.

### Built-In Analytics
The **Pelco Camera Sabotage** and **Adaptive Motion Detection** behaviors are standard features of the IMS0-E Series. **Camera Sabotage** detects contrast changes in the field of view. An alarm is

- Adaptive Motion Detection
- ONVIF v1.02 conformant

triggered if the lens is obstructed with spray paint, a cloth, or covered with a lens cap. **Adaptive Motion Detection** tracks objects that enter the field of view and triggers an alarm when an object enters a user-defined zone.

### Web Interface
The **IMS0-E Series** uses a standard Web browser for powerful remote setup and administration.

### Window Blanking
Window blanking is used to conceal user-defined privacy areas that cannot be viewed by an operator. The **IMS0-E Series** supports up to four blanked windows. A blanked area will appear on the screen as a solid gray window.

### Video Systemization
The **IMS0-E Series** easily connects to Pelco IP and hybrid systems such as Endura® version 2.0 (or later) and Digital Sentry® version 4.3 (or later). The camera is also compatible with Digital Sentry NVs (DS NVs), a full-featured video management software, which is available as a free download at *www.pelco.com*. DS NVs includes four free Pelco IP licenses and allows for the management of video from up to 64 cameras.

The **IMS0-E Series** features open architecture connectivity to third-party software. Pelco offers an application programming interface (API) and software developer's kit (SDK) for interfacing with Pelco's IP cameras.

## GENERAL

| | |
|---|---|
| Imaging Device | 1/3-inch (effective) |
| Imager Type | CMOS |
| Imager Readout | Progressive scan |
| Maximum Resolution | 800 x 600 |
| Signal-to-Noise Ratio | 50 dB |
| Auto Iris Lens Type | DC drive |
| Electronic Shutter Range | 1 ~ 1/100,000 sec |
| Wide Dynamic Range | 60 dB |
| White Balance Range | 2,000° to 10,000°K |
| Sensitivity | f/1.3; 2,850°K; SNR >24 dB |
|    Color (1x/33 ms) | 0.50 lux |
|    Color SENS (15x/500 ms) | 0.12 lux |
|    Mono (1x/33 ms) | 0.25 lux |
|    Mono SENS (15x/500 ms) | 0.03 lux |
| Dome Attenuation | Clear dome, zero light loss |
| Construction | |
|    Back Box | Alodine aluminum |
|    Bubble | Polycarbonate plastic |
|    Finish | Light gray powder coat |
| Weight | |
|    Unit | 0.6 kg (1.4 lb) |
|    Shipping | 1.0 kg (2.2 lb) |
| Available Languages | Chinese, English, French, German, Italian, Portuguese, Russian, Spanish, and Turkish |

## ELECTRICAL

| | |
|---|---|
| Port | RJ-45 connector for 100Base-TX Auto MDI/MDI-X |
| Cable Type | Cat5 or better for 100Base-TX |
| Power Input | PoE (IEEE 802.3af class 3) |
| Power Consumption* | 7.4 W nominal |
| Service Port | External 3-connector, 2.5 mm provides NTSC/PAL video output |
| Accessory Port | Connects Pelco accessories |

*Does not include optional accessories connected to the accessory port.

## MECHANICAL

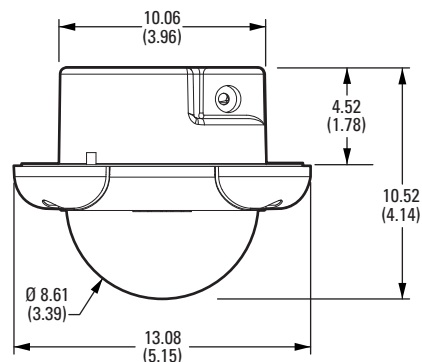| | |
|---|---|
| Pan/Tilt Adjustment | Manual |
|    Pan | 355° |
|    Tilt | 180° |
|    Rotate | 220° |

## ENVIRONMENTAL

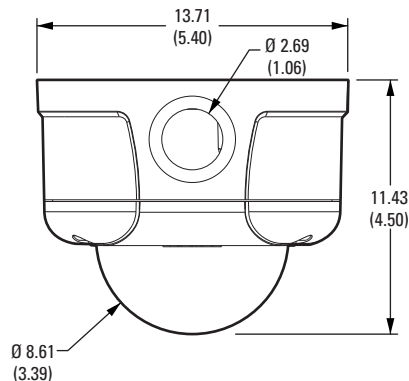| | |
|---|---|
| Operational Temperature | –20° to 50°C (–4° to 122°F) |
| Thermostat Operation | Heater is thermostatically controlled to operate below 5°C (41°F) |
| Operational Humidity | 20% to 80%, noncondensing |
| Impact Resistance | IK10++ per EN62262 (50J) |
| Shock and Vibration | Meets EN50155 Category 1, Class B; IEC60068: 2-6 and 2-27 |

NOTE: VALUES IN PARENTHESES ARE INCHES; ALL OTHERS ARE CENTIMETERS.
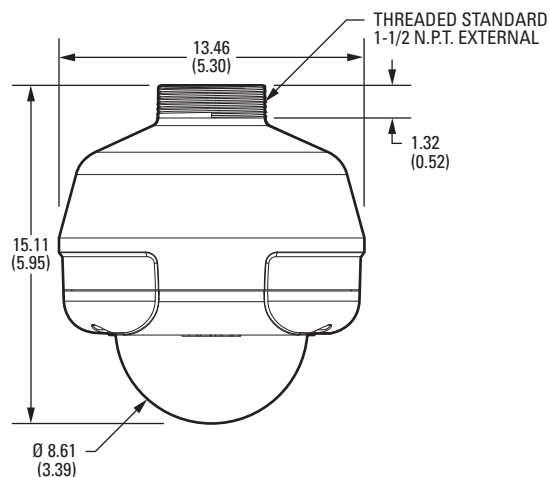
**IN-CEILING**



10.06 (3.96)
4.52 (1.78)
10.52 (4.14)
Ø 8.61 (3.39)
13.08 (5.15)

**SURFACE**
(Mounting Ring is Available as an Accessory)



13.71 (5.40)
Ø 2.69 (1.06)
11.43 (4.50)
Ø 8.61 (3.39)

**PENDANT**
(Mount is Available as an Accessory)



THREADED STANDARD 1-1/2 N.P.T. EXTERNAL
13.46 (5.30)
1.32 (0.52)
15.11 (5.95)
Ø 8.61 (3.39)

# TECHNICAL SPECIFICATIONS

## VIDEO

| | |
|---|---|
| Video Encoding | H.264 Base profile, MPEG-4, and MJPEG |
| Video Streams | Up to 2 simultaneous streams; the second stream is variable based on the setup of the primary stream |
| Frame Rate | Up to 30, 25, 24, 15, 12.5, 12, 10, 8, 7. 5, 6, 5, 4, 3, 2, 1 (dependent upon coding, resolution, and stream configuration) |

Available Resolutions

| Resolution | | | | MJPEG | | H.264 Base Profile | | MPEG-4 | |
|---|---|---|---|---|---|---|---|---|---|
| MPx | Width | Height | Aspect Ratio | Maximum IPS | Recommended Bit Rate | Maximum IPS | Recommended Bit Rate | Maximum IPS | Recommended Bit Rate |
| 0.5 | 800 | 600 | 4:3 | 30 ips | 5.8 Mbps | 25 ips | 2.0 Mbps | N/A | N/A |
| 0.3 | 640 | 480 | 4:3 | 30 ips | 3.7 Mbps | 30 ips | 1.6 Mbps | 30 ips | 1.7 Mbps |
| 0.1 | 320 | 240 | 4:3 | 30 ips | 0.9 Mbps | 30 ips | 0.4 Mbps | 30 ips | 0.4 Mbps |

| | |
|---|---|
| Additional Resolutions | 640 x 512, 640 x 352, 480 x 368, 480 x 272, 320 x 256, 320 x 176, 4CIF (704 x 489 and 704 x 576), and CIF (352 x 240 and 352 x 288) |
| Supported Protocols | TCP/IP, UDP/IP (Unicast, Multicast IGMP), UPnP, DNS, DHCP, RTP, RTSP, NTP, IPv4, SNMPv2c/v3, QoS, HTTP, HTTPS, LDAP (client), SSH, SSL, SMTP, FTP, and 802.1x (EAP) |
| Users | |
| Unicast | Up to 20 simultaneous users depending on resolution settings (2 guaranteed streams) |
| Multicast | Unlimited users H.264 |
| Security Access | Password protected |
| Software Interface | Web browser view and setup |
| Pelco System Integration | Endura 2.0 (or later) or Digital Sentry 4.3 (or later) |
| Open API | Pelco API or ONVIF v1.02 |
| Minimum System Requirements | |
| Processor | Intel® Pentium® 4 microprocessor, 1.6 GHz |
| Operating System | Microsoft® Windows® XP, Windows Vista®, or Mac® OS X 10.4 (or later) |
| Memory | 512 MB RAM |
| Network Interface Card | 100 megabits, minimum |
| Monitor | Minimum of 1024 x 768 resolution, 16- or 32-bit pixel color resolution |
| Web Browser* | Internet Explorer® 7.0 (or later) or Mozilla® Firefox® 3.5 (or later); Internet Explorer® 8.0 (or later) is recommended for configuring analytics |
| Media Player† | Pelco Media Player or QuickTime® 7.6.5 for Windows XP, Windows Vista, or QuickTime 7.6.4 for Mac OS X 10.4 |

*Internet Explorer is not supported by Mac OS X 10.4.

†This product is not compatible with QuickTime version 7.6.4 for Windows XP or Windows Vista. If you have this version installed on your PC, you will need to upgrade to QuickTime version 7.6.5.

## LENS

| Field of View in Degrees | | Aspect Ratio | | |
|---|---|---|---|---|
| | | 16:9 | 4:3 | 5:4 |
| 2.8 mm | Horizontal | 91 | 76 | 73 |
| | Vertical | 50 | 56 | 58 |
| 10.0 mm | Horizontal | 25 | 21 | 20 |
| | Vertical | 14 | 16 | 16 |

## MODELS

IMS0C10-1E      Sarix environmental indoor/outdoor mini fixed dome network camera, 0.5 MPx, color, 2.8 ~ 10 mm varifocal lens, clear dome

IMS0DN10-1E      Sarix environmental indoor/outdoor mini fixed dome network camera, 0.5 MPx, day/night, 2.8 ~ 10 mm varifocal megapixel lens, clear dome

## CERTIFICATIONS/RATINGS/PATENTS

- CE, Class A
- FCC, Class A
- UL/cUL Listed
- C-Tick
- KCC*
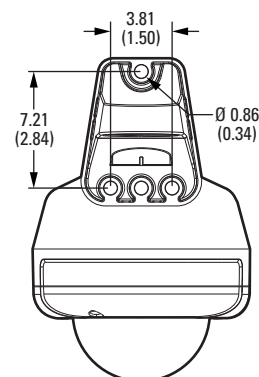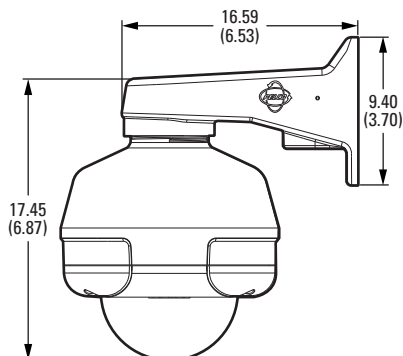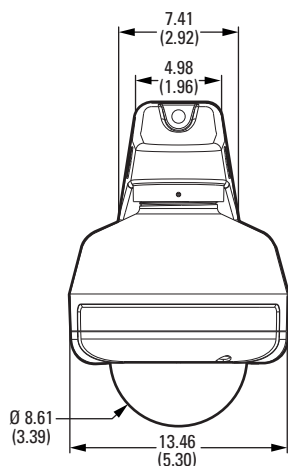- Meets NEMA Type 4 and IP66 standards
- Patents are pending
- ONVIF 1.02

*As of the date of this publication, these certifications are pending. Please consult the factory, our Web site at *www.pelco.com*, or the most recent B.O.S.S.® update for the current status of certifications.

## OPTIONAL ACCESSORIES

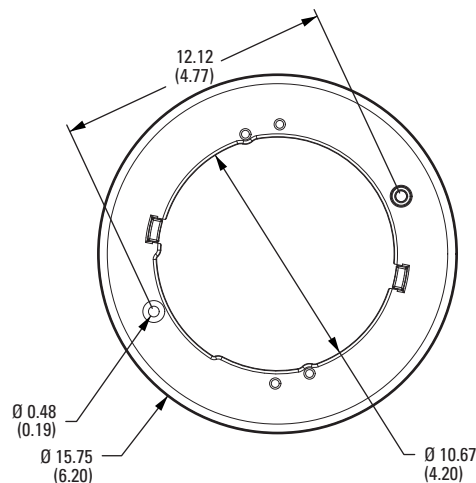| | |
|---|---|
| LDIMVE-0 | Smoked bubble |
| IM-VESM | Surface mount ring |
| IM-VEPM | Pendant mount, light gray |
| WMVE-SR | Wall mount, light gray |
| IM-VECM | Corner mount, light gray |
| IM-VE4S | 4S electrical box (deep) adapter plate |
| ALM-1 | External alarm accessory |
| AUD-1 | External audio accessory |
| POE20U560G | Single port PoE injector |
| PA101 | Pole adapter for use with WMVE-SR wall mount |

NOTE: VALUES IN PARENTHESES ARE INCHES; ALL OTHERS ARE CENTIMETERS.

**4S ELECTRICAL BOX (DEEP) ADAPTER PLATE**
(Available as an Accessory)



**WALL MOUNT**
(Available as an Accessory)