

# Sarix® IME Indoor and Environmental IR Domes

## UP TO 3 MP, WDR AND LOW-LIGHT PERFORMANCE, H.264, H.265, IK10+

### Product Features

- SureVision Technology (Advanced Low-Light & WDR Performance Simultaneously, Anti-Bloom Technology, 3D Noise Filtering, and Enhanced Tone Mapping)
- Up to 3 Megapixel (MP) Resolution
- Up to 120 Frames per Second (fps) at 1080p on select models
- Up to 130 dB Wide Dynamic Range
- Adaptive IR Illumination (850 nm) up to 40 Meters
- Robust Electronic Image Stabilization
- Built-in Pelco Enhanced Analytics Suite & Capable of Advanced Deep Learning Analytics Available Separately
- H.265, H.264, and MJPEG Encoding with Pelco Smart Compression
- Power Redundancy From PoE/PoE+ to 12 VDC / 24 VAC
- IP66, IP67, IP68, IP69K, Type 4X (Environmental Models Only)
- IK10+ (50 Joules) Rated Vandal Resistant

### Sarix Enhanced Range with SureVision

Sarix® Enhanced (E) range cameras feature SureVision technology, delivering resolutions of 2 MP and 3 MP options, consistent color science, fast processing power, and simultaneous advanced low-light performance with wide dynamic range (WDR) and anti-bloom technologies. New advancements include 3D noise filtering, smooth response to illumination changes, and improved tone mapping to retain color accuracy and overall image contrast.

With Electronic Image Stabilization enabled by built-in Gyro technology, Sarix Enhanced cameras always provide sharp, stable images even in the presence of vibration and wind movement.

Power redundancy between PoE/PoE+ and 12 VDC/24 VAC ensures 24-hour, 365-day continuous operation even under unstable power supply situations.

### The IME Series Dome Camera

The IME Series include indoor and environmental domes. All models feature a sturdy design that is IK10+ (50 Joules) rated, vandal resistant. The environmental models feature worry-free use in harsh environments with IP66, IP67, IP68, IP69K and Type 4X ratings, and a wide range of operating temperatures.

**Sarix Enhanced** range cameras contain an integrated P-Iris, autofocus, and motorized zoom lens for quick installation and easy maintenance. Included are unique, advanced autofocus options: temperature change, day/night transition, and auto/manual focus. These benefits ensure clear, focused images regardless of the scene or environment. All autofocus options are available through the web UI.



- Support for Local Storage with Micro SD Slot for SDHC/SDXC Card
- Compatible with Pelco and Third-Party Video Systems
- ONVIF Profile S, Profile G, and Profile T Conformant
- Full 3-Year Warranty and Support

Integrated and Adaptive IR Illumination 850 nm up to 40 m is available on all models to ensure visibility in totally dark environments.

A System Watchdog feature automatically restarts the camera if a malfunction is detected.

### Video

The IME Series supports three independently-configurable video streams. The three streams can be compressed with efficient H.265, H.264 High or Main profiles, or MJPEG formats. The streams can be configured to a variety of frame rates, variable bit rates, and group of pictures (GOP) structures to optimize image quality with bandwidth and storage efficiency. In addition, streams can be encoded as constrained variable bit rate (CVBR) or constant bit rate (CBR). Pelco Smart Compression is available on both H.264 and H.265, optimizing between bandwidth and image quality and can reduce storage by up to 70% depending on the scene.

### Open and Integrated

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

# TECHNICAL SPECIFICATIONS

## POWER REDUNDANCY

**Sarix Enhanced** range cameras are designed with Power over Ethernet (PoE or PoE+), 24 VAC and 12 VDC to reduce costs and simplify planning, wiring, and installation. PoE functionality works with PoE-enabled network switches or power injectors, eliminating the need for separate power supplies and cabling, and increasing camera fail safety through an uninterruptable power supply (UPS).

The cameras also support power supply failover between PoE/PoE+ and 12 VDC/24 VAC. If the camera is running with both PoE power and 12 VDC/24 VAC power supplied, and then PoE power is lost, the camera will switch to 12 VDC/24 VAC without any interruption or video loss. Once PoE power is restored, the camera will reboot and then run using PoE power.

## PELCO ENHANCED ANALYTICS SUITE

**Sarix Enhanced** range cameras includes two Basic and seven Enhanced user-configurable behaviors to enhance the flexibility and performance of the camera. The camera is capable of running up to two Enhanced behaviors in addition to the two Basic behaviors at the same time.

For each behavior, you can set up different scenarios for the behavior, which will automatically detect and trigger alarms when specific activity is detected.

Analytics are configured and enabled using a standard Web browser, and behavior alarms are compatible with VideoXpert or a third-party system that supports Pelco's API.

Available Basic analytic behaviors include:

- **Camera Sabotage:** Detects contrast changes in the field of view. An alarm is triggered if the lens is obstructed by spray paint, a cloth, or a lens cap. Any unauthorized repositioning of the camera also triggers an alarm.
- **Region-Based Simple Motion Detection:** Based on sensitivity, the camera determines if sufficient motion is detected within a configurable region.

Available Enhanced analytic behaviors include:

- **Abandoned Object:** Detects objects placed within a defined zone and triggers an alarm if the object remains in the zone unattended. An airport terminal is a typical installation for this behavior. This behavior can also detect objects left behind at an ATM, signaling possible card skimming.
- **Intrusion Detection:** Detects and tracks objects that enter a scene and then triggers an alarm when the objects enter a user-defined zone. This behavior is primarily used in outdoor environments with light traffic to reduce the number of false alarms caused by environmental changes.
- **Wrong Direction:** Generates an alarm in a high traffic area when a person or object moves in a specified direction. Typical installations for this behavior include an airport gate or tunnel where cameras can detect objects moving in the opposite direction of the normal flow of traffic or an individual entering through an exit door.
- **Loitering Detection:** Identifies when people or vehicles remain in a defined zone too long. This behavior is effective in real-time notification of suspicious behavior around ATMs, stairwells, and school grounds.
- **Object Counting:** Counts the number of objects that cross a defined line. This behavior can be used to count the number of people at a store entrance/exit or inside a store where the traffic is light. This behavior is based on tracking and does not count people in a crowded setting.
- **Object Removal:** Triggers an alarm if an object is removed from a user-defined zone. This behavior is ideal for customers who want to detect the removal of high value objects, such as a painting from a wall or a statue from a pedestal.
- **Stopped Vehicle:** Detects vehicles stopped near a sensitive area longer than the user-defined time allows. This behavior is ideal for airport curbside drop-offs, parking enforcement, suspicious parking, traffic lane breakdowns, and vehicles waiting at gates.

## PELCO'S SMART COMPRESSION TECHNOLOGY

Pelco's Smart Compression Technology lowers bandwidth and storage requirements by up to 70%. Our technology allows the user to make intelligent decisions regarding storage savings and image quality.

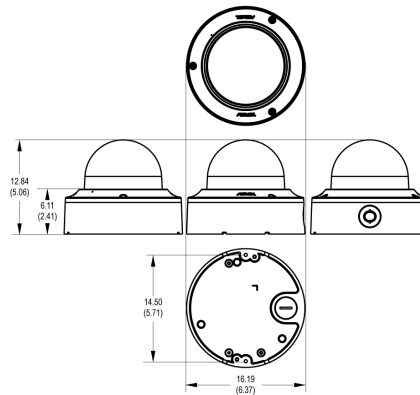
Pelco's Smart Compression Technology dynamically analyzes motion occurring within live video in real-time, to intelligently compress the information you don't need, while retaining details with clear quality in the areas that are important in the scene. By enabling Dynamic GOP, an added feature of Smart Compression, the number of I-frames are automatically reduced in scenes with low motion. Based on the complexity of scenes and motion occurring, such as a store room that has limited entry and exit, up to 70% bandwidth savings can be achieved.

# TECHNICAL SPECIFICATIONS

## COMPONENT FEATURES

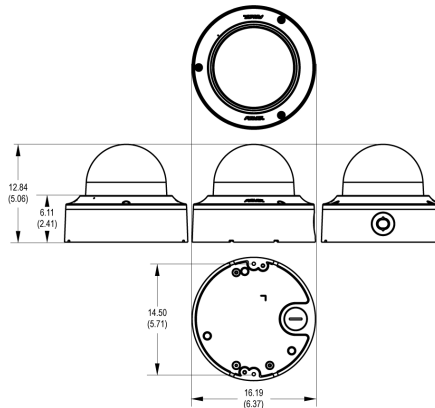


VALUES IN PARENTHESES ARE INCHES; ALL OTHERS ARE CENTIMETERS.



### Indoor/Vandal-Resistant, Surface Mount

- Attaches to Electrical Box Adapter
- Meets IP54
- Meets IK10+ (50J)
- Aluminum Construction with Polycarbonate Bubble
- RAL 9003
- Built-in Microphone
- IEEE802.3af PoE Class 3, 24 VAC or 12 VDC



### Environmental/Vandal-Resistant, Surface Mount

- Attaches to Electrical Box with Adapter
- Meets IP66, IP67, IP68, IP69K
- Meets Type 4X
- Meets IK10+ (50J)
- Aluminum Construction with Polycarbonate Bubble
- RAL 9003
- Heater
- IEEE802.3at PoE+ Class 4, 24 VAC or 12 VDC
- NEMA TS2 (Temp.) para 2.2.7.3 - 2.2.7.7

## CAMERA

|                          |                                                                          |
|--------------------------|--------------------------------------------------------------------------|
| Imaging Device           | 1/2.8-inch                                                               |
| Imager Type              | CMOS                                                                     |
| Imager Readout           | Progressive scan                                                         |
| Highest Resolution       |                                                                          |
| 3 MP                     | 2048 x 1536                                                              |
| 2 MP                     | 1920 x 1080                                                              |
| Signal-to-Noise Ratio    | >60 dB                                                                   |
| Electronic Shutter Range | 1/10000 sec (or faster) to 1sec                                          |
| Wide Dynamic Range       | Up to 130 dB                                                             |
| White Balance            | Range: 2,500° to 10,000°K; Selectable Auto/Manual                        |
| Day/Night Capabilities   | Mechanical IR cut filter (ON/OFF/AUTO), with different set points on lux |
| Adaptive IR Illumination | 850nm wavelength, maximum distance of 40 meters (131 feet)               |
| 3D Noise Reduction       | Yes (ON / OFF selectable)                                                |

Minimum Illumination

| Resolution | Lens     | Sensitivity | Color      |            | Mono       |            | Mono (IR on) |
|------------|----------|-------------|------------|------------|------------|------------|--------------|
|            |          |             | 33 ms      | 500 ms     | 33 ms      | 500 ms     |              |
| 2 MP       | 2.8-8 mm | f/1.3       | 0.0125 lux | 0.0012 lux | 0.0025 lux | 0.0003 lux | 0.0 lux      |
|            | 2.8-8 mm | f/1.3       | 0.05 lux   | 0.005 lux  | 0.010 lux  | 0.001 lux  | 0.0 lux      |
| 3 MP       | 8-20 mm  | f/1.5       | 0.080 lux  | 0.008 lux  | 0.015 lux  | 0.0018 lux | 0.0 lux      |

# TECHNICAL SPECIFICATIONS

## LENS

|                           |                                     |
|---------------------------|-------------------------------------|
| Lens Type                 | Built-in; varifocal                 |
| Focal Length              | f/1.3, 2.8 ~ 8 mm, f/1.5, 8 ~ 20 mm |
| Focus                     | Autofocus, motorized                |
| Zoom                      | Remote motorized                    |
| Auto Iris Type            | P-Iris                              |
| Field of View in Degrees* |                                     |

\*Note: Field of view may vary with changes in resolution settings.

| Lens       | Angle of View | 2 MP           | 3 MP           |
|------------|---------------|----------------|----------------|
| 2.8 - 8 mm | Diagonal      | 136.4° ~ 47.4° | 137.9° ~ 47.8° |
|            | Horizontal    | 115.7° ~ 41.3° | 106° ~ 38.2°   |
|            | Vertical      | 62.4° ~ 23.2°  | 77° ~ 28.7°    |
| 8 - 20 mm  | Diagonal      | N/A            | 46.5° ~ 18.8°  |
|            | Horizontal    |                | 36.5° ~ 15°    |
|            | Vertical      |                | 27° ~ 11.3°    |

## AUDIO

|                     |                                                           |
|---------------------|-----------------------------------------------------------|
| Streaming           | Bidirectional: full or half duplex                        |
| Built-In Microphone | 60 SPL @ TBD feet >40dB SNR (indoor models only)          |
| Input               | Line level, 3K ohm differential with/1Vp-p maximum signal |
| Output              | Line level, 600 ohm differential with/1Vp-p               |
| Encoding            | G.711-ALaw/G.711-ULaw                                     |

## GENERAL

|                     |                                    |
|---------------------|------------------------------------|
| Pan/Tilt Adjustment | Manual                             |
| Pan                 | 0° ~ 370°                          |
| Tilt                | -10° ~ -90°                        |
| Rotation            | ±100°                              |
| Construction        | Aluminum with polycarbonate bubble |
| Finish              | White, RAL 9003                    |
| Weight              |                                    |
| Unit                | 3.1 pounds                         |
| Shipping            | 4 pounds                           |
| EPA                 | 36.9 in^2                          |

## ENVIRONMENTAL

|                          |                                                                                           |
|--------------------------|-------------------------------------------------------------------------------------------|
| Operating Temperature    |                                                                                           |
| Indoor/Vandal-Resistant  | -10° to 55°C (14° to 131°F)†                                                              |
| Environmental            | -40° to 60°C (-40° to 140°F)†                                                             |
| 4-Hour Duration Maximum  |                                                                                           |
| Operating Temperature    | 65°C (149°F) (environmental models)                                                       |
| Start-up Temperature     |                                                                                           |
| Indoor                   | -10°C (14°F)                                                                              |
| Environmental            | With heater, -40°C (-40°F)                                                                |
| Storage Temperature      |                                                                                           |
| Indoor and Environmental | -40° to 60°C (-40° to 140°F)                                                              |
| Operating Humidity       |                                                                                           |
| Indoor/Vandal-Resistant  | 10 to 90%, RH condensing                                                                  |
| Environmental            | 10 to 100%, RH condensing                                                                 |
| Storage Humidity         | 20 to 80%, RH noncondensing                                                               |
| Impact Resistance        | IK10+ (50 J)                                                                              |
| Ingress Protection       | IP54 (indoor models),<br>IP66, IP67, IP68, IP69K, Type 4X (environmental models)          |
| Shock and Vibration      |                                                                                           |
| Resistance               | Tested in accordance to EN50155 (EN61373, Category 1, Class B); IEC/EN 60068:2-6 and 2-27 |

## ELECTRICAL

|                    |                                                                                                                                                                          |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Network Port       | RJ-45 connector for 1000Base-TX                                                                                                                                          |
| Input Power        | PoE (IEEE 802.3af, Class 3), 24 VAC (18 ~ 32 VAC), 12 VDC ±10% (Indoor models)<br>PoE+ (IEEE 802.3at, Class 4), 24 VAC (18 ~ 32 VAC), 12 VDC ±10% (Environmental models) |
| Power Consumption  |                                                                                                                                                                          |
| Indoor Dome        | 7.6 W typical, 12.95 W maximum                                                                                                                                           |
| Environmental Dome |                                                                                                                                                                          |
| 12 VDC             | 8.1 W typical, 20.5 W maximum                                                                                                                                            |
| 24 VAC             | 7.4 W typical, 18.1 W maximum                                                                                                                                            |
| PoE+               | 7.6 W typical, 16.8 W maximum                                                                                                                                            |
| Local Storage      | UHS-1 compliant micro SD, SDHC, SDXC compatible;<br>Up to 2 TB addressable (256 GB testable)                                                                             |
| Alarm              |                                                                                                                                                                          |
| Input              | Detects open or closed alarm state<br>Quantity 1, Normally Open, Normally Closed, Supervised,<br>3.5 VDC maximum, 35 mA maximum                                          |
| Output             | Quantity 1, ±32 VDC maximum, 150 mA maximum                                                                                                                              |

# TECHNICAL SPECIFICATIONS

## NETWORK

|                     |                                                                                                                                                                                         |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Supported Protocols | TCP/IP, UDP/IP (Unicast, Multicast IGMP), UPnP, DNS, DHCP, RTP, RTSP, NTP, IPv4, IPv6, SNMP v2c/v3, QoS, HTTP, HTTPS, SSH, SSL, SMTP, FTP, 802.1x (EAP), and NTCIP 1205, IGMP, TLS/TTLS |
| Users               |                                                                                                                                                                                         |
| Unicast             | Two guaranteed (up to 20 depending on the resolution settings)                                                                                                                          |
| Multicast           | Unlimited                                                                                                                                                                               |
| Security Access     | Password protected, HTTP, IEEE 802.1X, digest authentication, IP filtering                                                                                                              |
| Software Interface  | Web browser view and setup                                                                                                                                                              |

## MINIMUM SYSTEM REQUIREMENTS

|                   |                                                                                                                                  |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Processor         | Intel® Core™ i3 processor, 2.4 GHz                                                                                               |
| Operating System  | Microsoft® Windows® 7 (32- and 64-bit), or DirectX®11, Windows XP Service Pack 3 with DirectX 9.0c; or Mac® OS X 10.4 (or later) |
| Memory            | 4 GB RAM                                                                                                                         |
| Network Interface | 1 gigabit (or greater)                                                                                                           |
| Monitor           | Minimum of 1024 x 768 resolution, 16- or 32-bit pixel color resolution                                                           |
| Web Browser       | Internet Explorer® 10 (or later), Google Chrome™ (51 or later), Microsoft Edge, or Mozilla® Firefox® 3.5 (or later)              |

## INTEGRATION

|                             |                                                                                                     |
|-----------------------------|-----------------------------------------------------------------------------------------------------|
| Pelco System Integration    | VideoXpert;<br>Endura 2.0 (or later);<br>Digital Sentry 7.3 (or later)                              |
| Open API                    | Pelco API or ONVIF Profile S, Profile G, Profile T                                                  |
| Mobile Application          | Pelco Mobile Application                                                                            |
| Camera Discovery            | VX Toolbox                                                                                          |
| Firmware Upgrade            | Web UI or VxToolbox                                                                                 |
| Multilingual User Interface | English, French, Italian, German, Spanish, Korean, Portuguese, Russian, Simplified Chinese, Turkish |

## VIDEO

|                                |                                                                                                                                   |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Video Streams                  | Up to three simultaneous streams, the second stream and third stream are variable based on the setup of the primary stream        |
| Available Resolutions          | 3 MP 2048 x 1536 to 640 x 360;<br>2 MP 1920 x 1080 to 512 x 384                                                                   |
| Maximum Frame Rate             | Up to 120 frames per second, 30 fps with WDR                                                                                      |
| Video Encoding                 | H.265, H.264 Main/High, MJPEG                                                                                                     |
| Bit Rate Control               | Constrained variable bit rate (CVBR) and constant bit rate (CBR)                                                                  |
| Orientation Modes              | Electronic image rotation 90, 180, and 270 degrees (Corridor Mode)                                                                |
| Video Snapshot                 | JPEG capture at the same resolution as the highest stream configured                                                              |
| Window Blanking                | 16 configurable Windows                                                                                                           |
| Electronic Image Stabilization | Yes (ON / OFF selectable)                                                                                                         |
| Video Overlay                  | Camera name, time, date, and customizable text with multiple supported languages. Embedding of custom images and logos supported. |
| Flicker Correction             | Selectable Auto On/Off, 50 Hz or 60 Hz modes                                                                                      |

# TECHNICAL SPECIFICATIONS

## CERTIFICATIONS/RATINGS

- CE (Class A)
- FCC (Class A)
- ICES-003 (Class A)
- UL/cUL Listed
- UL/IEC/EN 60950-1, 60950-22
- KC
- RCM
- EAC
- BIS
- Environmental models:
  - Type 4X
  - EN 50155 (EN 61373 Category 1, Class B)
  - IEC/EN 60068-2-6 Product Vibration
  - IEC/EN 60068-2-27 Product Shock
  - IEC/EN 62262 Impact (IK 10+)
  - IEC/EN 60529 (IP66, IP67, IP68, IP69K)
- Indoor models:
  - IEC/EN 60529 (IP54)
- Meets NEMA TS2 para 2.2.7 - 2.2.9 (Environmental models)
- FDOT (Environmental models)
- ONVIF Profile S, Profile G, and Profile T Conformant

## RECOMMENDED MOUNTS

|                                |                                                                                          |
|--------------------------------|------------------------------------------------------------------------------------------|
| PA101 with WMVE-SW & IME3PM-E  | Pole Mount for use with WMVE-SW & IME3PM-E,                                              |
| IME3ICM-E                      | In-ceiling mount, RAL 9003                                                               |
| IME3PM-E                       | Pendant mount, RAL 9003                                                                  |
| IMM-CM with WMVE-SW & IME3PM-E | Corner mount for use with WMVE-SW & IME3PM-E                                             |
| IME3EBAP-E                     | Electrical box adapter                                                                   |
| WMVE-SW                        | Wall mount, 1.5 in. NPT, RAL 9003                                                        |
| IWM-SW                         | Wall mount with cable feedthrough, RAL9003                                               |
| IWM24-SW                       | Wall mount with cable feedthrough, includes integral 24 VAC, 100 VA transformer, RAL9003 |
| PP350/PP351                    | Parapet wall/roof mount, RAL9002                                                         |
| PP450/PP451                    | Parapet wall/roof mount, RAL9002                                                         |

## OPTIONAL ACCESSORIES

|           |                                   |
|-----------|-----------------------------------|
| IMELD3-0E | Smoked lower dome (environmental) |
| IMELD3-1E | Clear lower dome (environmental)  |
| IMELD3-0  | Smoked lower dome (indoor)        |
| IMELD3-1  | Clear lower dome (indoor)         |

## POWER SUPPLIES

|             |                                             |
|-------------|---------------------------------------------|
| MCS Series  | Indoor, 24 VAC power supply                 |
| WCS Series  | Outdoor, 24 VAC power supply                |
| POE130-ATUS | Single-port PoE+ midspan with US power cord |
| POE130-ATEU | Single-port PoE+ midspan with EU power cord |
| POE8ATN-US  | 8-port PoE+ midspan with US power cord      |
| POE8ATN-EU  | 8-port PoE+ midspan with EU power cord      |
| POE16ATN-US | 16-port PoE+ midspan with US power cord     |
| POE16ATN-EU | 16-port PoE+ midspan with EU power cord     |

# TECHNICAL SPECIFICATIONS

## MODELS\*

| Back Box | Resolution | Model Number | Lens       | Description                          |
|----------|------------|--------------|------------|--------------------------------------|
| Surface  | 2 MP       | IME238-1ERS  | 2.8 ~ 8 mm | Sarix Enhanced IR Environmental Dome |
|          | 2 MP       | IME238-1IRS  | 2.8 ~ 8 mm | Sarix Enhanced Indoor IR Dome        |
|          | 3 MP       | IME332-1ERS  | 8 ~ 20 mm  | Sarix Enhanced Environmental IR Dome |
|          | 3 MP       | IME332-1IRS  | 8 ~ 20 mm  | Sarix Enhanced Indoor IR Dome        |
|          | 3 MP       | IME338-1ERS  | 2.8 ~ 8 mm | Sarix Enhanced Environmental IR Dome |
|          | 3 MP       | IME338-1IRS  | 2.8 ~ 8 mm | Sarix Enhanced Indoor IR Dome        |

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

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