Sarix® IME Indoor and Environmental Mini Domes

UP TO 3 MPX, WDR AND LOW-LIGHT PERFORMANCE, H.264, IK10, IP66

Product Features

- SureVision 3.0 Technology, Including:
 - 130dB Wide Dynamic Range (WDR)
 - Advanced Low-Light Performance, 0.05 lux
 - Anti-Bloom Technology
 - 3D Noise Filtering
 - Enhanced Tone Mapping
- Up to 3 Megapixel (MPx) Resolution
- Up to 60 Images per Second (ips)
- Autofocus Varifocal 3 ~ 9 mm Lens
- Power over Ethernet (PoE), IEEE 802.3af, 24 VAC, 12 VDC
- Built-in Analytics Suite
- · Adaptive IR Illumination up to 30 Meters

Sarix Enhanced Range with SureVision 3.0

Sarix® Enhanced (E) range cameras deliver high definition (HD) resolution, 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.

Designed to install quickly, the cameras include autofocus, motorized zoom, built-in analytics, and other advanced features needed for demanding security applications.

Camera

The **IME Series** contains an integrated varifocal MPx autofocus lens (3 ~ 9 mm). Form factors include indoor and outdoor domes. All models feature a sturdy design that is both vandal- and tamper-resistant. The environmental model features worry-free use in a wide range of environmental operating conditions.

Sarix Enhanced range cameras include four unique, advanced autofocus options: temperature change (every 10°C / 18°F), day/night transition, a daily autofocus routine, and manual autofocus. These benefits ensure clear, focused images regardless of the scene or environment. All autofocus options are available through the web UI.

Integrated and Adaptive IR Illumination is optionally available on all outdoor models.



- Compatible with Pelco and Third-Party Video Systems
- ONVIF Profile S and Profile G Conformant
- Full 3-Year Warranty and Support

Video

The **IME Series** supports two independently-configurable video streams in addition to a service video stream. The streams can be compressed in MJPEG and H.264 formats across several resolution configurations. The **IME Series** offers real-time video (60 fps) with full HD resolution (up to 3 MPx) using H.264 compression for optimized bandwidth and storage efficiency.

The streams can be configured to a variety of frame rates, bit rates, and group of pictures (GOP) structures for additional flexibility in bandwidth administration. In addition, streams can be encoded as constrained variable bit rate (CVBR) or constrained bit rate (CBR).

Open and Integrated

Sarix Enhanced 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 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 and Profile G standards.

Built-In Analytics

Analytics enhance the flexibility and performance of **Sarix Enhanced** range cameras. Eight behaviors are preloaded and included as standard features. These behaviors can be configured and enabled using a standard Web browser, and they are compatible with VideoXpert, Endura, or a third-party system that supports alarms using Pelco's API.







Convenient Power

Sarix Enhanced range cameras are designed with Power over Ethernet (PoE) 24 VAC and 12 VDC to reduce costs and simplify planning, wiring, and installation. PoE functionality works with PoEenabled 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).

ANALYTICS

Sarix Enhanced range cameras includes eight user-configurable behaviors. The camera is capable of running up to two behaviors at the same time.

For each behavior, you can create several custom profiles that contain different camera settings. With these profiles, 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 system.

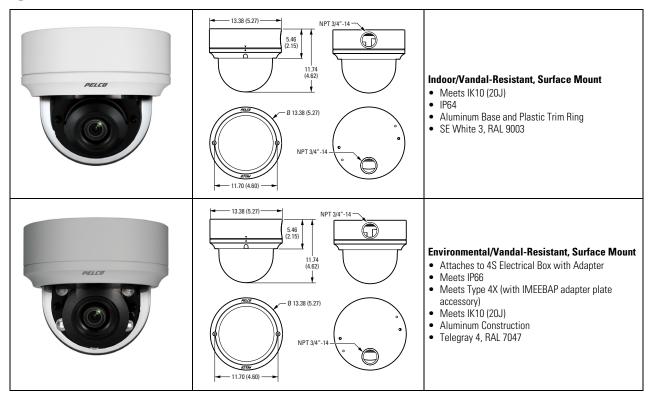
Analytics behaviors can be scheduled to work during a certain time or condition. For example, during the day, a camera can be configured with Object Counting to count the number of people that enter a lobby door. At night, the operator can change the profile to Camera Sabotage to trigger an alarm if a camera is moved or obstructed. Available 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.
- 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.
- 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.

COMPONENT FEATURES



VALUES IN PARENTHESES ARE INCHES; ALL OTHERS ARE CENTIMETERS.



CAMERA

 Imaging Device
 1/2.8-inch

 Imager Type
 CMOS

 Imager Readout
 Progressive scan

 Highest Resolution

3 MPx 2048 x 1536 2 MPx 1920 x 1080 1.3 MPx 1280 x 960 Signal-to-Noise Ratio >60 dB

Electronic Shutter Range 1/20000 sec (or faster) to 2 sec

Wide Dynamic Range 130 dB

White Balance Range 2,000° to 10,000°K

Sensitivity 3 ~ 9 mm
Color (33 ms) 0.050 lux

Color (500 ms) 0.002 lux

Color (33 ms) 0.050 lux
Color (500 ms) 0.003 lux
Mono (33 ms) 0.050 lux
Mono (500 ms) 0.005 lux
Day/Night Capabilities Yes

Mechanical IR Cut Filter Yes, (ON/OFF/AUTO selectable), with

different set points on lux

Adaptive IR Illumination 850nm wavelength, maximum distance of 30 meters (100 feet) IR illumination at 0 lux

LENS

Lens Type Built-in; varifocal Focal Length f/1.3, 3 ~ 9 mm
Focus Autofocus, motorized Zoom Remote
Auto Iris Type DC drive P-iris lens

Field of View in Degrees

Lana	Focal	Angle of View					
Lens	Length	Horizontal	Vertical				
3 ~ 9 mm	Wide	113.7°	61.1°				
	Tele	38.0°	21.4°				

AUDIO

Streaming Bidirectional: full or half duplex
Input/Output Line level/external microphone input;

Single-ended, stereo, 1 Vp-p max. signal level

Compression G.711 PCM 8 bit, 8 kHz mono at 64 kbit/s

MECHANICAL

Dome Attenuation

Clear f/0.0 light loss
Pan/Tilt Adjustment Manual
Pan 355°
Tilt 75°
Rotation 340°

PHYSICAL

Weight Shipping 1020 gm (2.25 lb), Environmental, Surface Mount 1020 gm (2.25 lb), Product Box Dimensions (approximate) 6.75 x 6.75 x 6.75 in.

ENVIRONMENTAL

Operating Temperature

Indoor/Vandal-Resistant -10° to 55°C (14° to 131°F)†
Environmental -40° to 55°C (-40° to 131°F)†

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-Áesistant Environmental 10 to 90%, RH noncondensing 0 to 90%, RH noncondensing Storage Humidity 20 to 80%, RH noncondensing

Impact Resistance IK10 (20J) per IEC 62262 (environmental

models)

ELECTRICAL

Network Port RJ-45 connector for 100Base-TX

Auto MDI/MDI-X

Cable Type Cat5 or better for 100Base-TX

Input Power PoE (IEEE 802.3af, Class 3), 24 VAC, 12 VDC

Power Consumption Up to 12 W nominal

Current Consumption 330 mA @ POE; 0.5 mA @ 24 VAC;

1A @ 12 VDC

Local Storage SD, SDHC, SDXC

Alarm

Unsupervised Detects open or closed alarm state 5 VDC maximum, 0.5 mA maximum

Relay Output ±350V VDC maximum, ±130 mA maximum

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, ARP, ICMP, and 802.1x (EAP)

Users

Unicast Up to 20 simultaneous users depending on

the resolution settings

Multicast Unlimited users H.264
Security Access Password protected
Software Interface Web browser view and setup

VIDEO

Video Streams Independently configurable primary and

secondary streams plus service stream

Available Resolutions Two configurable streams as follows:

Camera Model		MPx	Width	Height	Aspect Ratio		
3 MPx			1.9	1600	1200	4:3	
		2 MPx		1.2	1280	960	4:3
			1,3	0.5	800	608	4:3
		MPx	0.3	640	480	4:3	
				0.08	320	240	4:3
3 MPx and 2 MPx		1080p	1920	1080	16:9		
		1 MP	х	720p	1280	720	16:9
			0.5	0.5	800	448	16:9
			MPx	0.2	640	352	16:9
				0.06	320	176	16:9

Frame Rate Up to 60, 30, 25, 15, 12.5, 10, 5, 1 (depending

on the coding, resolution, and stream

configuration)

Video Encoding H.264 High, Main, or Base profiles; and

MJPEG

Bit Rate Control Constrained variable bit rate (CVBR) and

constant bit rate (CBR)

Service Stream JPEG stream; the JPEGs will be the same

resolution as the primary stream

MINIMUM SYSTEM REQUIREMENTS

Processor Intel® Core™ i3 processor, 2.4 GHz

Microsoft® Windows® 7 (32- and 64-bit), or Operating System

DirectX®11, Windows XP Service Pack 3 with

DirectX 9.0c; or Mac® OS X 10.4 (or later)

4 GB RAM Memory

Network Interface 100 megabits (or greater)

Monitor Minimum of 1024 x 768 resolution, 16- or 32-bit pixel color resolution

Web Browser Internet Explorer® 8.0 (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 for Windows 7, XP, or

Vista; or QuickTime 7.6.4 for Mac OS X 10.4

(or later)

ANALYTICS

Required Systems for Analytics

Open API The Pelco API can transmit behavior alarm

data to third-party applications, available at

pdn.pelco.comIntegration

INTEGRATION

Pelco System Integration VideoXpert;

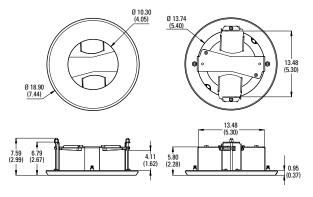
Endura 2.0 (or later); Digital Sentry 7.3 (or later) DX4700/DX4800

Pelco API or ONVIF Profile S and Profile G Open API Integrated with Pelco Mobile Application Mobile Application

SOFTWARE FEATURES

- · Multilingual menus in user interface: Arabic, English, French, Italian, German, Korean, Spanish, Portuguese, Russian, Simplified Chinese, Turkish
- 16 window blanks, configurable in size
- Password protection
- Snapshot with same resolution as highest stream configured
- Text overlays for camera name, time, date, or custom text
- Image overlays

IMEICM-11 AND IMEICM-1ER IN-CEILING MOUNT



CERTIFICATIONS/RATINGS*

- CE (Class A)
- FCC (Class A)
- ICES-003 (Class A)
- UL/cUL Listed UL/IEC 60950-22
- KC
- RCM
- Meets Type 4X, IP66 rating (Environmental), and IK10 (vandal resistant)
- 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

WMVE-SR Pendant mount, 1.5 in., NPT, outdoor,

RAL 7047

WMVE-SW Pendant mount, 1.5 in., NPT, indoor,

RAL 9003

IMEICM-1ER Outdoor in-ceiling mount, RAL 7047 IMEICM-11 Indoor in-ceiling mount, RAL 9003 IMEPMB-1I Wall mount bracket, light duty, indoor,

RAL 9003

OPTIONAL ACCESSORIES

PA101 Pole adapter for use with WMVE-SR pendant

mount

IMEPM-1ER 1.5-inch NPT outdoor pendant adapter,

RAL 7047

IMEPM-1I 1.5-inch NPT indoor pendant adapter,

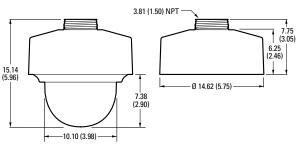
RAL 9003

IMEEBAP 4S electrical box adapter plate; required for

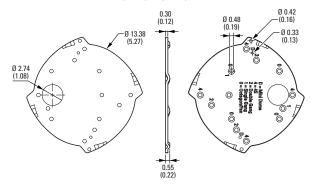
Type 4X installation

IMELD2-01 Smoked lower dome (indoor) IMELD2-0ER Smoke lower dome (environmental)

IMEPM-1I AND IMEPM-1ER PENDANT ADAPTER



IMEEBBAP 4S ELECTRICAL BOX ADAPTER



MODELS*

Back Box	Resolution	Model Number	Lens	Description
Surface	1.3 MPx	IME129-1ES	3 ~ 9 mm	Sarix Enhanced Environmental Dome
	1.3 MPx	IME129-1IS	3 ~ 9 mm	Sarix Enhanced Indoor Dome
	1.3 MPx	IME129-1RS	3 ~ 9 mm	Sarix Enhanced Environment IR Dome
	2 MPx	IME229-1ES	3 ~ 9 mm	Sarix Enhanced Environmental Dome
	2 MPx	IME229-1IS	3 ~ 9 mm	Sarix Enhanced Indoor Dome
	2 MPx	IME229-1RS	3 ~ 9 mm	Sarix Enhanced Environment IR Dome
	3 MPx	IME329-1ES	3 ~ 9 mm	Sarix Enhanced Environmental Dome
	3 MPx	IME329-1IS	3 ~ 9 mm	Sarix Enhanced Indoor Dome
	3 MPx	IME329-1RS	3 ~ 9 mm	Sarix Enhanced Environment IR Dome

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

