Sarix® IME Series Mini Domes with SureVision 2.0 UP TO 3 MPX, H.264, IP CAMERAS WITH WDR AND LOW-LIGHT PERFORMANCE

Product Features

- SureVision 2.0 Technology, Including:
 - True Wide Dynamic Range (WDR)
 - Advanced Low-Light Performance
 - Anti-Bloom Technology
 - 3D Noise Filtering
 - Enhanced Tone Mapping
- Up to 3 Megapixel (MPx) Resolution
- Up to 30 Images per Second (ips) at 3 MPx
- Autofocus Varifocal 3 ~ 9 mm and 9 ~ 22 mm MPx Lenses
- Power over Ethernet (PoE), IEEE 802.3af
- Built-in Pelco Analytics Suite
- Local Storage (Micro SD)

Sarix Enhanced Range with SureVision 2.0

Sarix® Enhanced (E) range cameras feature SureVision technology, delivering 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 $3 \sim 9$ mm or $9 \sim 22$ mm MPx autofocus lens. All models include a camera in a compact in-ceiling, surface mount, or pendant enclosure that is ready to install. The vandal-resistant and environmental models feature a sturdy metal design that is both vandal- and tamper-resistant. The environmental model features worry-free use in a wide range of environmental operating conditions. All in-ceiling models have a back box that is plenum rated per 2008 NEC article 300.22(C)(2).

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.







- Compatible with Pelco and Third-Party Video Systems
- ONVIF Profile S and Profile G Conformant
- 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 (30 ips) 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), constrained bit rate (CBR), or variable bit rate (VBR).

Open and Integrated

Sarix Enhanced range cameras seamlessly connect to Pelco video management systems such as 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

Pelco Analytics enhance the flexibility and performance of **Sarix Enhanced** range cameras. Eight Pelco behaviors are preloaded and included as standard features. Pelco behaviors can be configured and enabled using a standard Web browser, and they are compatible with 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) 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).

PELCO ANALYTICS

Sarix Enhanced range cameras includes eight user-configurable behaviors. The camera is capable of running up to two behaviors at the same time; although, the number of behaviors is limited to the available processing power of the camera and the type of analytic being used.

Note: Available processing power is determined by the settings for compression standards, resolution, image rate, bit rate, and analytic configuration.

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.

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

Pelco 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 Pelco behaviors include:

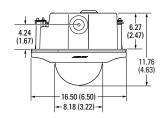
- Abandoned Object: Detects objects placed within a defined zone and triggers an alarm if the object remains in the zone longer than the user-defined time allows. An airport terminal is a typical installation for this behavior. This behavior can also detect objects left behind at an ATM, signaling possible card skimming.
- Adaptive Motion 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.
- Directional Motion: 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 longer than the user-defined time allows. 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 enter a defined zone. 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.

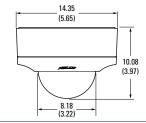




Indoor, In-Ceiling

- Single Back Box for Suspended or Hard Ceiling Applications
- Requires 8.26 cm (3.25 in.) Space Above Ceiling
- Minimum Ceiling Thickness 0.64 cm (0.25 in.); Maximum Ceiling Thickness 4.45 cm (1.75 in.)
- 3/4 in. NPT or 25 mm Conduit Attachments on Side and Top of Back Box
- Microphone
- Plenum Rated Back Box
- Alodine Aluminum Construction
- White Back Box is Standard: Black is Available

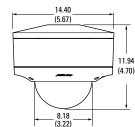




Indoor, Surface Mount

- · Attaches to Single-Gang Electrical Box
- Microphone
- Polycarbonate/ABS Construction
- White Back Box is Standard; Black is Available





Indoor, Pendant

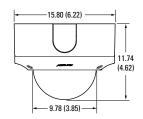
- Microphone
- 3/4 in. NPT or 25 mm Conduit/Pipe Attachment
- Polycarbonate/ABS Construction
- White Back Box is Standard; Black is Available



Environmental/Vandal-Resistant, In-Ceiling

- Single Back Box for Suspended or Hard Ceiling Applications
- Requires 8.26 cm (3.25 in.) Space Above Ceiling
- Minimum Ceiling Thickness 0.97 cm (0.38 in.); Maximum Ceiling Thickness 3.81 cm (1.50 in.)
- 3/4 in. NPT or 25 mm Conduit Attachments on Side and Top of Back Box
- Microphone on Vandal-Resistant Models
- Vandal-Resistant Model Meets IP56
- Environmental Model Meets IP66 and NEMA Type 4X
- Meets IK10++ (50J)
- · Plenum Rated Back Box
- Alodine Aluminum Construction
- · Light Gray Finish





Environmental/Vandal-Resistant, Surface Mount

- Attaches to Standard 4 in. Square Outlet Box and Standard 2-Gang
- 3/4 in. NPT or 25 mm Conduit Attachments on Side and Top of Back Box
- Microphone on Vandal-Resistant Models
- Vandal-Resistant Model Meets IP56 Environmental Model Meets IP66 and NEMA Type 4X
- Meets IK10++ (50J)
- Alodine Aluminum Construction
- · Light Gray Finish





Environmental/Vandal-Resistant, Pendant

- 1-1/2 in. NPT Thread for Use with Pelco Wall Mounts
- Microphone on Vandal-Resistant Models
- Vandal-Resistant Model Meets IP56
- Environmental Model Meets IP66 and NEMA Type 4X
- Meets IK10++ (50J)
- Alodine Aluminum Construction
- · Light Gray Finish

CAMERA

Imaging Device 1/3-inch Imager Type **CMOS** Imager Readout Progressive scan

Highest Resolution

2048 x 1536 3 MPx 2 MPx 1920 x 1080 1 MPx 1280 x 960 0.5 MPx 800 x 608 Signal-to-Noise Ratio >60 dB

Electronic Shutter Range 0.5 ~ 1/48.000 sec Up to 100 dB* True Wide Dynamic Range 2,000° to 10,000°K White Balance Range Sensitivity 3 ~ 9 mm f/1.2; 2,850°K; SNR >20 dB

Color (33 ms) Color (500 ms) 0.1 lux 0.005 lux Mono (33 ms) 0.05 lux Mono (500 ms) 0.0013 lux

Sensitivity 9 ~ 22 mm f/1.6; 2,850°K; SNR >20 dB

Color (33 ms) 0.4 lux Color (500 ms) 0.009 lux Mono (33 ms) 0.09 lux Mono (500 ms) 0.002 lux

Day/Night Capabilities Yes

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

different set points on lux

LENS

Lens Type Built-in; varifocal

Focal Length f/1.2, 3 ~ 9 mm, or f/1.6, 9 ~ 22 mm

Autofocus, motorized Focus

Remote Zoom

DC drive P-iris lens Auto Iris Type

Field of View in Degrees

Lens	Focal Length	Mode	Diagonal	Horizontal	Vertical
3 ~ 9 mm	Wide	4:3	105	84	63
	Tele	4:3	38	30	23
	Wide	16:9	97	84	47
	Tele	16:9	35	30	17
9 ~ 22 mm	Wide	4:3	38	30	23
	Tele	4:3	15	12	8.9
	Wide	16:9	35	30	17
	Tele	16:9	14	12	6.6

AUDIO

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

600-ohm differential, 1 Vp-p max. signal level; built-in microphone (indoor and

vandal-resistant models)

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

MECHANICAL

Dome Attenuation

f/0.0 light loss Clear Smoked f/1.0 light loss Pan/Tilt Adjustment Manual 355° 180° Tilt Rotation 360°

PHYSICAL

Weight	Unit	Shipping
Indoor, In-Ceiling	1.2 kg (2.6 lb)	1.6 kg (3.6 lb)
Indoor, Surface Mount	1.0 kg (2.0 lb)	1.4 kg (3.0 lb)
Indoor, Pendant	1.0 kg (2.1 lb)	1.4 kg (3.1 lb)
Environmental, In-Ceiling	1.4 kg (3.1 lb)	1.9 kg (4.1 lb)
Environmental, Surface Mount	1.5 kg (3.3 lb)	2.0 kg (4.3 lb)
Environmental, Pendant	1.3 kg (2.9 lb)	1.8 kg (3.9 lb)
Vandal-Resistant, In-Ceiling	1.4 kg (3.1 lb)	1.9 kg (4.1 lb)
Vandal-Resistant, Surface Mount	1.5 kg (3.3 lb)	2.0 kg (4.3 lb)
Vandal-Resistant, Pendant	1.3 kg (2.9 lb)	1.8 kg (3.9 lb)
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Product Box Dimensions (approximate) 22.2 x 32.9 x 17.6 cm

(8.75" D x 12.94" W x 6.94" H)

ENVIRONMENTAL

Operating Temperature

Indoor/Vandal-Resistant -10° to 50°C (14° to 122°F)† -40° to 50°C (-40° to 122°F)† Environmental

[†]Thermostatically controlled active heating and cooling elements are used to achieve operating temperature range. A blower (fan) is used to achieve operating temperatures to 50°C (122°F). Active heating elements are used to achieve operating temperatures below -10°C (14°F).

Cold Start

Indoor/Vandal-Resistant -10°C (14°F) -20°C (-4°F) Environmental

Storage Temperature -10° to 60°C (14° to 140°F)

Operating Humidity Indoor/Vandal-Resistant 20 to 80%, RH noncondensing Environmental 10 to 95%, RH condensing Storage Humidity 20 to 80%, RH noncondensing

Impact Resistance K10++ (50J) per IEC 62262 (environmental/

vandal-resistant models)

Shock and Vibration EN50155 Category 1, Class B; IEC 60068:2-6

and 2-27 (environmental/vandal-resistant

models)

ELECTRICAL

Network Port RJ-45 connector for 100Base-TX

Auto MDI/MDI-X

Accessory Port Micro B USB connector for Pelco accessories

Cable Type Cat5 or better for 100Base-TX PoE (IEEE 802.3af, Class 3) Input Power

8.5 W nominal Power Consumption[‡] **Current Consumption** 350 mA maximum

Local Storage Micro SD, SDHC (see manual for details)

Alarm

Unsupervised Detects open or closed alarm state Detects open and short alarm state with Supervised

external 1-kohm resistor

3.5 VDC maximum, 3.5 mA maximum Input ±32 VDC maximum, 150 mA maximum Relay Output

[‡]Does not include optional accessories connected to accessory port.

NETWORK

TCP/IP, UDP/IP (Unicast, Multicast IGMP), Supported Protocols

UPnP, DNS, DHCP, RTP, RTSP, NTP, IPv4, IPv6, SNMP v2c/v3, QoS, HTTP, HTTPS, LDAP (client), 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

^{*}Sensor level is not inclusive of SureVision image processing.

VIDEO

Video Streams Multiple simultaneous streams with up to

2 different configurations plus service stream; the secondary stream is variable based on the setup of the primary stream

Two configurable streams as follows: Available Resolutions

Camera Model		MPx	Max Mbps CVBR	Width	Height	Aspect Ratio		
3 MPx			3.0	9.2	2048	1536	4:3	
2 MPx			1.9	5.7	1600	1200	4:3	
		1 MPx		1.2	3.8	1280	960	4:3
			0.5	0.5	2	800	608	4:3
			MPx	0.3	1.5	640	480	4:3
				0.08	0.5	320	240	4:3
3 MPx and 2 MPx		1080p	6	1920	1080	16:9		
	1 MPx		720p	2.9	1280	720	16:9	
			0.5	0.5	1.7	800	448	16:9
			MPx	0.2	1.2	640	352	16:9
				0.06	0.4	320	176	16:9

Note: Default mbps values are based on High profile (30 ips; default IP GOP

length).

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

the coding, resolution, and stream

configuration)

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

Bit Rate Control Constrained variable bit rate (CVBR),

constant bit rate (CBR), and variable bit rate

(VBR) with target range

Service Stream JPEG stream; the aspect ratio will be

consistent with the independent streams

MINIMUM SYSTEM REQUIREMENTS

Intel® Core™ i3 processor, 2.4 GHz Processor

Microsoft® Windows® 7 (32- and 64-bit), or Window Vista®; or Mac® OS X 10.4 (or later) Operating System

4 GB RAM Memory

Network Interface 100 megabits (or greater) Minimum of 1024 x 768 resolution, Monitor

16- or 32-bit pixel color resolution

Internet Explorer® 7.0 (or later) or Mozilla® Web Browser*

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 7, XP, or Vista; or QuickTime 7.6.4

for Mac OS X 10.4 (or later)

ANALYTICS

Required Systems for Pelco Analytics

Pelco Interface WS5200 Advanced System Management

Software on an Endura 2.0 (or later) system

Open API The Pelco API can transmit behavior alarm

data to third-party applications, available at

pdn.pelco.com

INTEGRATION

Pelco System Integration Endura 2.0 (or later)

Digital Sentry 7.3 (or later)

DX4700/DX4800

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

SOFTWARE FEATURES

Multilingual menus in user interface: English, French, Italian, German, Spanish, Portuguese, Russian, Chinese, Turkish

16 window blanks, configurable in size

Password protection

Snapshot with JPEG capture at 2016 x 1523 resolution

Text overlays for camera name, time, date

CERTIFICATIONS/RATINGS

• CE, Class A

FCC, Class A

ICES-003, Class A

UL/cUL Listed

KCC

C-Tick

CB

Meets NEMA Type 4X, IP66 rating (Environmental),

and IP56 (Vandal-Resistant)

Compliant with applicable immunity sections of EN 50155, EN 50121-3-2,

and EN 50121-4

ONVIF Profile S and Profile G Conformant

RECOMMENDED MOUNTS

WMVE-SR Wall mount, light gray; for use with

environmental and vandal-resistant pendant

mount options

WMVE-SW Wall mount, white; for use with indoor

pendant mount options

Pole adapter for use with WMVE-SR wall PA101

mount

IMEP-VCM Indoor corner mount

OPTIONAL ACCESSORIES

IPCT01 Pelco IP camera tester[‡] ALM-1 External alarm accessory POE20U560G Single port PoE injector

IMELLD1-0I Lower dome assembly, smoked, in-ceiling,

white

IMELLD1-0BI Lower dome assembly, smoked, in-ceiling,

black

IMELD1-0S Lower dome assembly, smoked, surface

mount/pendant, white

Lower dome assembly, smoked, surface IMELD1-0BS

mount/pendant, black

Lower dome (bubble only), smoked, IMELD1-0V

environmental/vandal-resistant

IMELD1-1V Lower dome (bubble only), clear,

environmental/vandal-resistant

^{*}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.

[‡] Contact Pelco Product Support for more information about the use of the Pelco IP camera tester with cameras.

MODELS*

Туре	Lens	Mount	Color	Resolution	Model
Indoor				0.5 MPx	IMES19-1I
			White	1 MPx (720p)	IME119-1I
		In-Ceiling	vviiite	2 MPx (1080p)	IME219-1I
				3 MPx (1080p)	IME319-1I
			Black	3 MPx (1080p)	IME319-B1I
	3 ~ 9 mm Focal Range	Surface Mount	White	0.5 MPx	IMES19-1S
				1 MPx (720p)	IME119-1S
				2 MPx (1080p)	IME219-1S
				3 MPx (1080p)	IME319-1S
			Black	3 MPx (1080p)	IME319-B1S
		Pendant	White	0.5 MPx	IMES19-1P
				1 MPx (720p)	IME119-1P
				2 MPx (1080p)	IME219-1P
				3 MPx (1080p)	IME319-1P
			Black	3 MPx (1080p)	IME319-B1P
		In-Ceiling		0.5 MPx	IMES19-1EI
				1 MPx (720p)	IME119-1EI
				2 MPx (1080p)	IME219-1EI
				3 MPx (1080p)	IME319-1EI
		Surface Mount		0.5 MPx	IMES19-1ES
Environmental	2 0 mm Food Bongo		Light Cross	1 MPx (720p)	IME119-1ES
Environmental	3 ~ 9 mm Focal Range		Light Gray	2 MPx (1080p)	IME219-1ES
				3 MPx (1080p)	IME319-1ES
				0.5 MPx	IMES19-1EP
		Pendant		1 MPx (720p)	IME119-1EP
				2 MPx (1080p)	IME219-1EP
				3 MPx (1080p)	IME319-1EP
	3 ~ 9 mm Focal Range	In-Ceiling	Light Gray	0.5 MPx	IMES19-1VI [†]
				1 MPx (720p)	IME119-1VI [†]
				2 MPx (1080p)	IME219-1VI [†]
				3 MPx (1080p)	IME319-1VI [†]
		Surface Mount		0.5 MPx	IMES19-1VS [†]
Vandal-Resistant				1 MPx (720p)	IME119-1VS [†]
				2 MPx (1080p)	IME219-1VS [†]
				3 MPx (1080p)	IME319-1VS [†]
				0.5 MPx	IMES19-1VP [†]
		Pendant		1 MPx (720p)	IME119-1VP [†]
				2 MPx (1080p)	IME219-1VP [†]
				3 MPx (1080p)	IME319-1VP [†]
Indoor	9 ~ 22 mm Focal Range	In-Ceiling	White		IME3122-1I
		in-ceiling	Black		IME3122-B1I
		Surface Mount	White		IME3122-1S
		Surface Mouill	Black		IME3122-B1S
		Pendant	White	3 MPx (1080p)	IME3122-1P
			Black		IME3122-B1P
	9 ~ 22 mm Focal Range	In-Ceiling			IME3122-1EI
Environmental		Surface Mount			IME3122-1ES
		Pendant	Light Gray		IME3122-1EP
	9 ~ 22 mm Focal Range	In-Ceiling	Ligiil diay		IME3122-1VI [†]
Vandal-Resistant		Surface Mount			IME3122-1VS [†]
		Pendant			IME3122-1VP [†]

^{*}All environmental models are vandal resistant.

[†]This vandal-resistant model is for indoor use only.