

Sarix® IME Series Mini Domes with SureVision

UP TO 3 MPX, H.264, IP CAMERAS WITH WDR AND LOW-LIGHT PERFORMANCE

Product Features

- Next Generation SureVision Technology, Including:
 - True Wide Dynamic Range (WDR)
 - Advanced Low-Light Performance
 - Anti-Bloom Technology
- 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
- Adaptive Motion Detection and Camera Sabotage Analytics
- Local Storage (Micro SD)
- Compatible with Pelco and Third-Party Video Systems

Sarix Enhanced Range with SureVision

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 ~ 9 mm or 9 ~ 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).

Video

The **IME Series** supports multiple simultaneous video streams with up to two different configurations. 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.

SureVision™ 2.0
A Pelco® by Schneider Electric™ technology



- ONVIF Profile S Conformant
- 3-Year Warranty and Support

The streams can be configured to a variety of frame rates, bit rates, and group of pictures (GOP) structures for additional bandwidth administration.

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 open ONVIF Profile S standard.

Built-In Analytics

Sarix Enhanced range cameras feature adaptive motion detection, allowing the camera to record or send an alarm when there is motion in selected zones or in an entire scene. A camera sabotage alarm is triggered if the lens is obstructed, or when the camera is repositioned.

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).



by Schneider Electric



International Standards
Organization Registered Firm;
ISO 9001 Quality System



C3942 / NEW 7-3-13

TECHNICAL SPECIFICATIONS

COMPONENT FEATURES



VALUES IN PARENTHESES ARE INCHES; ALL OTHERS ARE CENTIMETERS.

		<p>Indoor, In-Ceiling</p> <ul style="list-style-type: none"> • 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 • Plenum Rated Back Box • Alodine Aluminum Construction • White Back Box is Standard; Black is Available
		<p>Indoor, Surface Mount</p> <ul style="list-style-type: none"> • Attaches to Single-Gang Electrical Box • Microphone • Polycarbonate/ABS Construction • White Back Box is Standard; Black is Available
		<p>Indoor, Pendant</p> <ul style="list-style-type: none"> • Microphone • 3/4 in. NPT or 25 mm Conduit/Pipe Attachment • Polycarbonate/ABS Construction • White Back Box is Standard; Black is Available
		<p>Environmental/Vandal-Resistant, In-Ceiling</p> <ul style="list-style-type: none"> • 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
		<p>Environmental/Vandal-Resistant, Surface Mount</p> <ul style="list-style-type: none"> • Attaches to Standard 4 in. Square Outlet Box and Standard 2-Gang Electrical Box • 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
		<p>Environmental/Vandal-Resistant, Pendant</p> <ul style="list-style-type: none"> • 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

TECHNICAL SPECIFICATIONS

CAMERA

Imaging Device	1/3-inch
Imager Type	CMOS
Imager Readout	Progressive scan
Highest Resolution	
3 MPx	2048 x 1536
2 MPx	1920 x 1080
1 MPx	1280 x 1024
0.5 MPx	800 x 608
Signal-to-Noise Ratio	>60 dB
Electronic Shutter Range	1 ~ 1/77,000 sec
True Wide Dynamic Range	Up to 100 dB*
White Balance Range	2,000° to 10,000°K
Sensitivity 3 ~ 9 mm	f/1.2; 2,850°K; SNR >20 dB
Color (33 ms)	0.2 lux
Color (500 ms)	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

*Sensor level is not inclusive of SureVision image processing.

LENS

Lens Type	Built-in; varifocal
Focal Length	f/1.2, 3 ~ 9 mm, or f/1.6, 9 ~ 22 mm
Focus	Autofocus, motorized
Zoom	Remote
Auto Iris Type	DC drive P-iris lens
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
Input/Output	Line level/external microphone input; 600-ohm differential, 1 Vp-p max. signal level; built-in microphone
Compression	G.711 PCM 8 bit, 8 kHz mono at 64 kbit/s

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
Available Resolutions	Two configurable streams as follows:

Camera Model	Resolution						
	MPx	Width	Height	Aspect Ratio			
3 MPx	2 MPx	1 MPx	0.5 MPx	3.0	2048	1536	4:3
				1.9	1600	1200	4:3
				1.2	1280	960	4:3
				0.5	800	608	4:3
				0.3	640	480	4:3
				0.08	320	240	4:3
3 MPx and 2 MPx	1 MPx	0.5 MPx	1080p	1920	1080	16:9	
			720p	1280	720	16:9	
			0.5	800	448	16:9	
			0.2	640	352	16:9	
			0.06	320	176	16:9	

Note: Lower resolution cameras have a subset of the resolutions shown in the table, as supported by the camera.

Frame Rate	Up to 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), 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

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, LDAP (client), SSH, SSL, SMTP, FTP, ARP, ICMP, and 802.1x (EAP)
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Note: IPv6 supports mixed IPv4 and IPv6 installations, but not IPv6-only deployments.

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

ELECTRICAL

Network Port	RJ-45 connector for 100dBase-TX Auto MDI/MDI-X
Accessory Port	Micro B USB connector for Pelco accessories
Cable Type	Cat5 or better for 100dBase-TX
Input Power	PoE (IEEE 802.3af, Class 3)
Power Consumption†	8.5 W nominal
Current Consumption	350 mA maximum
Local Storage	Micro SD
Alarm	
Unsupervised	Detects open or closed alarm state
Supervised	Detects open and short alarm state with external 1-kohm resistor
Input	3.5 VDC maximum, 3.5 mA maximum
Relay Output	±32 VDC maximum, 150 mA maximum

†Does not include optional accessories connected to accessory port.

MECHANICAL

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

ENVIRONMENTAL

Operating Temperature	
Indoor/Vandal-Resistant	-10° to 50°C (14° to 122°F)
Environmental	-40° to 50°C (-40° to 122°F)
Cold Start	
Indoor/Vandal-Resistant	-10°C (14°F)
Environmental	-20°C (-4°F)
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)

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)
Product Box Dimensions (approximate)	22.2 x 32.9 x 17.6 cm (8.75" D x 12.94" W x 6.94" H)	

TECHNICAL SPECIFICATIONS

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

MINIMUM SYSTEM REQUIREMENTS

Processor	Intel® Core™ i3 processor, 2.4 GHz
Operating System	Microsoft® Windows® 7 (32- and 64-bit), or Window Vista®; or Mac® OS X 10.4 (or later)
Memory	4 GB RAM
Network Interface	100 megabits (or greater)
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 7, XP, or Vista; or QuickTime 7.6.4 for Mac OS X 10.4 (or later)

*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.

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

CERTIFICATIONS/RATINGS/PATENTS

- CE, Class A
- FCC, Class A
- UL/cUL Listed
- KCC‡
- CCC‡
- C-Tick‡
- S-Mark‡
- 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
- Cisco® Medianet Media Services Proxy 2.0 compatible
- ONVIF Profile S Conformant
- MTBF ≥ 200,000 POH (Reporting standard is RELEX Modeling)

‡At the time of this publication, these certifications are pending. Consult the factory, our Web site (www.pelco.com), or the most recent B.O.S.S.® update for the current status of certifications.

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
PA101	Pole adapter for use with WMVE-SR wall mount

OPTIONAL ACCESSORIES

IPCT01	Pelco IP camera tester [§]
ALM-1	External alarm accessory
POE20U560G	Single port PoE injector
IMELD1-0I	Lower dome, smoked, in-ceiling, white
IMELD1-0BI	Lower dome, smoked, in-ceiling, black
IMELD1-0S	Lower dome, smoked, surface mount/pendant, white
IMELD1-0BS	Lower dome, smoked, surface mount/pendant, black
IMELD1-0V	Lower dome, smoked, environmental/vandal-resistant, bubble only
IMELD1-1V	Lower dome, clear, environmental/vandal-resistant, bubble only

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

TECHNICAL SPECIFICATIONS

MODELS

Type	Lens	Mount	Color	Resolution	Model			
Indoor	3 ~ 9 mm Focal Range	In-Ceiling	White	0.5 MPx	IMES19-1I			
				1 MPx (720p)	IME119-1I			
				2 MPx (1080p)	IME219-1I			
				3 MPx (1080p)	IME319-1I			
		Surface Mount	White	3 MPx (1080p)		IME319-B1I		
					Black	0.5 MPx	IMES19-1S	
						1 MPx (720p)	IME119-1S	
						2 MPx (1080p)	IME219-1S	
			3 MPx (1080p)	IME319-1S				
			Pendant	White	3 MPx (1080p)		IME319-B1S	
						Black	0.5 MPx	IMES19-1P
							1 MPx (720p)	IME119-1P
2 MPx (1080p)	IME219-1P							
3 MPx (1080p)	IME319-1P							
Environmental	3 ~ 9 mm Focal Range	In-Ceiling	Light Gray	0.5 MPx	IMES19-1EI			
				1 MPx (720p)	IME119-1EI			
				2 MPx (1080p)	IME219-1EI			
				3 MPx (1080p)	IME319-1EI			
		Surface Mount	Light Gray	3 MPx (1080p)		IME319-1EI		
					Pendant	0.5 MPx	IMES19-1ES	
						1 MPx (720p)	IME119-1ES	
						2 MPx (1080p)	IME219-1ES	
		3 MPx (1080p)	IME319-1ES					
		Pendant	Light Gray	3 MPx (1080p)		IME319-1ES		
					0.5 MPx	IMES19-1EP		
					1 MPx (720p)	IME119-1EP		
2 MPx (1080p)	IME219-1EP							
3 MPx (1080p)	IME319-1EP							
Vandal-Resistant	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	Light Gray	3 MPx (1080p)		IME319-1VI		
					Pendant	0.5 MPx	IMES19-1VS	
						1 MPx (720p)	IME119-1VS	
						2 MPx (1080p)	IME219-1VS	
		3 MPx (1080p)	IME319-1VS					
		Pendant	Light Gray	3 MPx (1080p)		IME319-1VS		
					0.5 MPx	IMES19-1VP		
					1 MPx (720p)	IME119-1VP		
2 MPx (1080p)	IME219-1VP							
3 MPx (1080p)	IME319-1VP							
Indoor	9 ~ 22 mm Focal Range	In-Ceiling	White	3 MPx (1080p)	IME3122-1I			
			Black		IME3122-B1I			
		Surface Mount	White		IME3122-1S			
			Black		IME3122-B1S			
		Pendant	White		IME3122-1P			
			Black		IME3122-B1P			
Environmental	9 ~ 22 mm Focal Range	In-Ceiling	Light Gray		IME3122-1EI			
		Surface Mount			IME3122-1ES			
		Pendant			IME3122-1EP			
Vandal-Resistant	9 ~ 22 mm Focal Range	In-Ceiling	Light Gray		IME3122-1VI			
		Surface Mount			IME3122-1VS			
		Pendant			IME3122-1VP			