

Sarix® IXS0LW Series IP Cameras with SureVision

STD DEF, H.264 BOX CAMERAS WITH WDR AND LOW-LIGHT PERFORMANCE

Product Features

- Up to SVGA Resolution (800 x 600)
- Up to 30 Images per Second (ips) at All Resolutions
- Auto Back Focus
- H.264, MJPEG, and MPEG-4 Compression Capability
- Day/Night Models with Mechanical IR Cut Filter
- Wide Dynamic Range with Anti-Bloom Technology
- Power over Ethernet (IEEE 802.3af) or 24 VAC
- Up to 2 Simultaneous Video Streams
- Web Viewing
- Local Storage (Micro SD) for Alarm Capture
- Open IP Standards
- Adaptive Motion Detection

The **Sarix® IXS0LW Series** network camera is a standard definition network camera designed with SureVision technology that seamlessly delivers advanced low-light performance, wide dynamic range (WDR), and anti-bloom technology for industry-leading image quality and performance. The network camera includes a mechanical IR cut filter for increased sensitivity in low-light installations. Anti-bloom technology adjusts the image to create the best picture when a bright light source is introduced in a dark scene, such as the glaring head lights of nighttime traffic.

Designed to install quickly, the camera comes equipped with the advanced features needed for demanding security applications.

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.

Camera

The **IXS0LW Series** can support 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 to a variety of frame rates, bit rates, and GOP (group of pictures) structures for additional bandwidth administration.

The **IXS0LW Series** is simple to install, and the automatic back focus control feature makes sharp scene focus setup easy. A convenient video setup jack eliminates the need to use a laptop for viewing video when installing the camera.



(LENS NOT SUPPLIED WITH CAMERA)

- ONVIF v1.02 Conformant
- Audio Accessory Available

The **IXS0LW Series** features built-in Power over Ethernet (PoE) IEEE 802.3af, which supplies power to the camera over the network, eliminating the need for a separate power supply. If PoE is not available, 24 VAC can be used to power the camera.

Built-In Analytics

The **Pelco Camera Sabotage** and **Adaptive Motion Detection** behaviors are standard features of the IXS0LW Series. **Camera Sabotage** detects contrast changes in the field of view. An alarm is 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 **IXS0LW 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 **IXS0LW Series** supports up to four blanked windows. A blanked area will appear on the screen as a solid gray window.

Video Systemization

The **IXS0LW Series** easily connects to Pelco IP and hybrid systems such as Endura® version 1.5 (or later), MPEG-4; Endura version 2.0 (or later), H.264; Digital Sentry® version 7.3 (or later); Digital Sentry NVs; and DX8100 version 2.0 (or later). The camera also 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.



by **Schneider Electric**

International Standards
Organization Registered Firm;
ISO 9001 Quality System



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TECHNICAL SPECIFICATIONS

GENERAL

Imaging Device	
16:9 Aspect Ratio	1/3-inch
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 ~ 1/77,000 sec
Wide Dynamic Range	120 dB*
White Balance Range	2,000° to 10,000°K
Sensitivity	f/1.2; 2,850°K; SNR >20 dB
Color (33 ms)	0.10 lux
Color SENS (500 ms)	0.005 lux
Mono (33 ms)	0.05 lux
Mono SENS (500 ms)	0.0013 lux
Weight	
Unit (without lens)	0.5 kg (1.11 lb)
Shipping	0.9 kg (2.00 lb)

ELECTRICAL

Port	RJ-45 connector for 100Base-TX Auto MDI/MDI-X
Cable Type	Cat5 or better for 100Base-TX
Power Input	22 to 34 VAC; 24 VAC nominal or PoE (IEEE 802.3af class 3)
Power Consumption†	5.0 W nominal
Current Consumption	
PoE	<200 mA maximum
24 VAC	<450 mA maximum
Local Storage	Micro SD
Alarm Input	10 VDC maximum, 5 mA maximum
Alarm Output	0 to 15 VDC maximum, 75 mA maximum
Service Port	External 3-connector, 2.5 mm provides NTSC/PAL video output

*Sensor level; not inclusive of SureVision image processing.

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

MECHANICAL

Lens Mount	CS mount, adjustable
Camera Mount	0.64 cm (0.25-inch) UNC-20 screw, top and bottom of camera housing

ENVIRONMENTAL

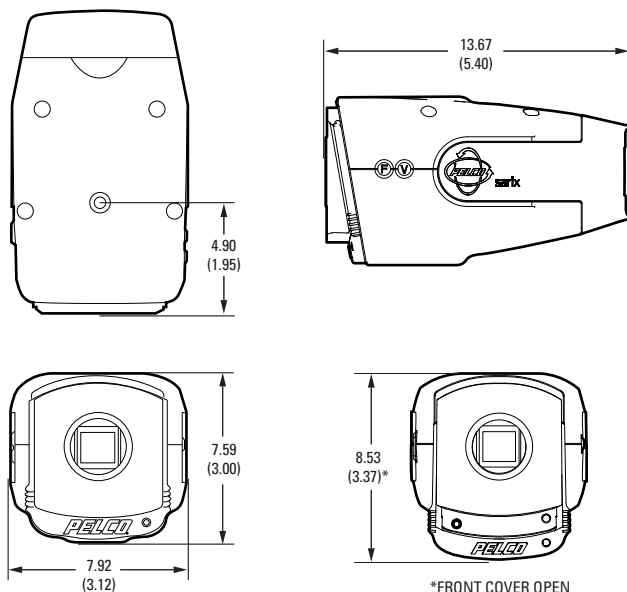
Operating Temperature	-10° to 50°C (14° to 122°F)
Storage Temperature	-10° to 70°C (14° to 158°F)
Operating Humidity	20% to 80%, noncondensing



FRONT VIEW, CAMERA ONLY
(OPENED TO EXPOSE SERVICE PORT)



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



*FRONT COVER OPEN



REAR VIEW

TECHNICAL SPECIFICATIONS

VIDEO

Video Encoding	H.264 Base profile, MPEG-4, 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, 2.5, 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 480 and 704 x 576), and CIF (352 x 240 and 352 x 288)
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Supported Protocols	TCP/IP, UDP/IP (Unicast, Multicast IGMP), UPnP, DNS, DHCP, RTP, RTSP, NTP, IPv4, SNMP v2c/v3, QoS, HTTP, HTTPS, LDAP (client), SSH, SSL, SMTP, FTP, and 802.1x (EAP)
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Users	
Unicast	Up to 20 simultaneous users depending on resolution settings (2 guaranteed streams)
Multicast	Unlimited users H.264 or MPEG-4

Security Access	Password protected
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Software Interface	Web browser view and setup
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Pelco System Integration	Endura 1.5 (or later), MPEG-4 or Endura 2.0 (or later), H.264 Digital Sentry 7.3 (or later) DX8100 Series 2.0 (or later)
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Open API	Pelco API or ONVIF v1.02
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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 (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 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.

TECHNICAL SPECIFICATIONS

MODEL

IXSOLW Sarix SVGA 0.5 MPx, low-light, WDR,
day/night, network camera with SureVision

CERTIFICATIONS

- CE, Class B
- FCC, Class B
- UL/cUL Listed
- KCC*
- C-Tick
- ONVIF 1.02

*As of the date of this publication, this certification is 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.

ACCESSORIES

IX-SC Service/monitor cable, 1.22 m (4 ft);
compatible with standard BNC connectors

AUD-1 External audio adapter

ALM-1 External alarm adapter

RECOMMENDED MOUNTS

C10-UM Universal camera mount

RECOMMENDED ENCLOSURES

EH1512 Indoor/outdoor enclosure

EH3512 Outdoor enclosure

DF8 8-inch fixed mount dome

RECOMMENDED LENSES

13VD2.5-6 Varifocal lens, 2.5 ~ 6.0 mm, f/1.4 ~ 2.1

13VD2.8-12 Varifocal lens, 2.8 ~ 12.0 mm, f/1.4 ~ 2.9

13VD5-50 Varifocal lens, 5.0 ~ 50.0 mm, f/1.4 ~ 2.9

Field of View in Degrees		Aspect Ratio		
		16:9	4:3	5:4
2.5 mm	Horizontal	108	108	102
	Vertical	59	81	81
2.8 mm	Horizontal	100	100	94
	Vertical	54	74	74
3.0 mm	Horizontal	91	91	86
	Vertical	49	67	67
5.0 mm	Horizontal	54	54	51
	Vertical	31	40	40
6.0 mm	Horizontal	47	47	44
	Vertical	27	35	35
8.0 mm	Horizontal	35	35	33
	Vertical	20	26	26
12.0 mm	Horizontal	23	23	22
	Vertical	13	18	18
50.0 mm	Horizontal	6	6	5
	Vertical	3	4	4