Sarix® IXP Series Box Cameras

UP TO 5MP, H.264, H.265, IP BOX CAMERAS WITH TRUE WDR

Product Features

- . H.265, H.264 Main, High, MJPEG video encoding
- Up to 5 megapixel (MP) resolution at 30 frames per second
- Up to 60 images per second (ips) at 4 MP for 5MP cameras
- Micro SDHC & SDXC 2TB addressable, 128 GB testable
- Pelco Pro Analytics Suite including Adaptive Motion, Object Counting, Motion Detection, Camera Sabotage
- Operating temperature from -10° to 55°C (14° to 131°F)
- 24 VAC, 12 VDC, IEEE802.3af Power over Ethernet (PoE)
- Pelco Smart Compression Technology
- Choice of standard CS megapixel lenses
- Compatible with Pelco and third-party video management systems

Sarix Professional Range

Powerful, versatile, and affordable, the **Sarix® Professional (P)** range cameras pack the most popular features and functionality of Sarix technology into a wide range of indoor and outdoor options, including bullet cameras and domes. There is also a vandal resistant wedge camera and a box camera. Mix and match the performance options and form factor you need for almost any lighting condition, environment, and application.

Camera

Within the **Sarix Professional** Range, the **IXP Series Box Cameras** are compatible with a choice of standard CS mount megapixel lenses for wide angle or long range surveillance needs. The box cameras feature an auto back focus mechanism to accommodate this range of lenses and to ensure that the camera automatically stays in perfect focus. The Sarix IXP Series features advanced color science and true WDR for increased visibility in difficult lighting situations.

Video

Sarix Professional provides options for three simultaneous 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 and variable bit rates to optimize image quality with bandwidth and storage efficiency. Pelco Smart Compression is available on both H.264 and H.265, minimizing storage and bandwidth utilization.



- ONVIF Profile S, Profile G, and Profile T conformant
- Full 3-year warranty and support

Edge Storage

Sarix Professional range cameras feature onboard edge storage with a micro SDHC/SDXC card. Video clips of varying lengths can be stored to the card upon alarm, or video can be written continuously to the SD card in the case of network outage. Video can be retrieved from the card through the FTP protocol or by using an ONVIF Profile G compliant client.

Open and Integrated

Sarix Professional 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 Professional range cameras integrate with major third-party systems through the open Pelco API or the ONVIF Profile S, Profile G, and Profile T standards.

Standard Web Interface

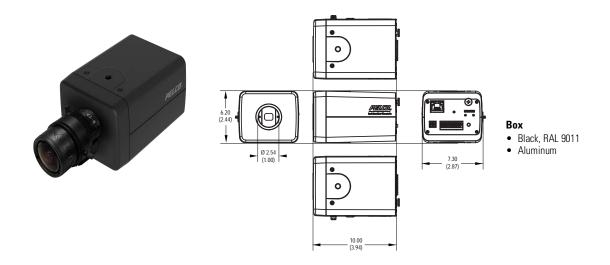
Pelco cameras use a standard Web browser interface for easy remote setup and administration. Controls are optimized for convenient one-step camera configuration for features including color, exposure, flicker control, backlight compensation, and streaming.



COMPONENT FEATURES



WALUES IN PARENTHESES ARE INCHES; ALL OTHERS ARE CENTIMETERS.



CAMERA

Imaging Device 1/2.8-inch Imager Type CMOS

Imager Readout Progressive scan

Highest Resolution 5 MP

2592 x 1944 3 MP 2048 x 1536 2 MP 1920 x 1080 1 MP 1280 x 960

3D Noise Reduction Yes (ON/OFF selectable)

>50 dB Signal-to-Noise Ratio Auto Back Focus Yes

Electronic Shutter Range 1/32,000 sec ~ 1 sec True Wide Dynamic Range Up to 120 dB, per IEC62676

Range: 2,000° to 10,000°K; Selectable ATW White Balance

(Auto Tracing White Balance), Auto, &

Manual

Day/Night Capabilities Mechanical IR Cut Filter (ON/OFF/AUTO),

with different set points on lux

Minimum Illumination

MP	Sensitivity	Color		Mono	
		33 ms	200 ms	33 ms	200 ms
5 MP	f/1.3	0.26 lux	0.065 lux	0.15 lux	0.0375 lux
3 MP	f/1.3	0.065 lux	0.01625 lux	0.03 lux	0.0075 lux
2 MP	f/1.3	0.0169 lux	0.00416 lux	0.01 lux	0.0025 lux
1 MP	f/1.3	0.0169 lux	0.00416 lux	0.01 lux	0.0025 lux

^{*}Note: The minimum illumination values will change depending on the lens used.

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, ARP, DDNS, ICMP, IGMP, RTCP, SFTP, SIP, TLS/

TTLS, WS-discovery

Users

Unicast Up to 5 simultaneous users depending on resolution settings (3 guaranteed streams)

Multicast Unlimited, H.264/H.265

Security Access Password Protected, HTTPS, IEEE 802.1X,

Digest Authentication, IP Filtering

Software Interface Web browser view and setup

LENSING

Lens Mount CS thread
Auto Iris Type DC-iris, P-Iris

Field of View Refer to recommended Lenses

AUDIO

Streaming Bidirectional full duplex

Input Line Level, 3K ohm differential w/ 1Vp-p max

signal

Output Line Level, 600 ohm differential w/ 1Vp-p

Encoding G711-Alaw / G711-Ulaw

GENERAL

Construction

Material Aluminum Finish RAL 9011, black

Weight

Unit 0.42 kg (0.926 lb) Shipping 0.58 kg (1.28 lb)

ENVIRONMENTAL

Operating Temperature -10° to 55°C (14° to 131°F)
Storage Temperature -40° to 70°C (-40° to 158°F)
Operating Humidity 5 to 90%, RH noncondensing
Storage Humidity 20 to 80%, RH noncondensing

ELECTRICAL

Network Port RJ-45 Connector, 10/100Base-Tx

RS-485 Yes

Input Power IEEE802.3af PoE, 18 ~ 32 VAC, 12 +/-10% VDC
Local Storage Micro SDHC & SDXC 2TB addressable, 128G

or more testable

Model	Power	Power Consumption (Watts or VA)		
wodei	Input	Typical	Maximum	
IXP13 IXP23	12 VDC	3.5 W	7.7 W	
	24 VAC	3.7 VA	8.3 VA	
	PoE	3.9 W	10.4 W	
IXP33	12 VDC	4 W	8.5 W	
	24 VAC	4 VA	9.4 VA	
	PoE	5 W	12.1 W	
	12 VDC	5.2 W	9.8 W	
IXP53	24 VAC	6.2 VA	10.8 VA	
	PoE	6.6 W	12.5 W	

Alarm

 Input
 1, PhotoMOS™ relay (30 V, 1 A)

 Output
 1, PhotoMOS™ relay (30 V, 1 A)

Triggers Unsupervised mode that detects switch

closures (Normally Open and Normally

Closed)

PELCO PRO ANALYTICS SUITE

Sarix Professional range cameras feature the Pro suite of video analytics including Motion Detection, Camera Sabotage, Audio Detection, Object Counting, Adaptive Motion, Object Removal, and Directional Motion.

Simple Motion Detection algorithms allow the camera to record or send an alarm when there is motion detected in a selected zone or with the entire scene.

A Camera Sabotage alarm is triggered if the lens is obstructed or when the camera is repositioned.

Audio Detection allows user to define an audio intensity threshold to trigger

Object Counting counts the number of moving objects passing through the defined virtual lines.

Adaptive Motion detects moving objects crossing defined lines and entering a defined target area.

Object Removal: This behavior detects moving objects that leave the target

Directional Motion detects objects moving in disallowed directions.

PELCO'S H.264 SMART COMPRESSION TECHNOLOGY

Pelco's H.264 Smart Compression Technology lowers bandwidth and storage requirements by up to 70%. Our technology allows the user to make informed optimization between 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 extent of motion occurring, up to 70% bandwidth savings can be achieved.

INTEGRATION

Video Management VideoXpert; VXToolbox; Endura version 2.0 (or later);

Digital Sentry 7.3 (or later);

Open API Third-party VMS through Pelco API, ONVIF

Profile S, Profile G, and Profile T

Mobile Application Pelco Mobile

Local Storage Capture 1-, 5- or 10-second video clips on

camera sabotage, motion detection, or alarm input; record video continuously in the case of network outage with option to overwrite; access video through FTP protocol and ONVIF

Profile G

Camera Discovery VX Toolbox

Firmware Upgrade Web UI or VX Toolbox

Microsoft® Internet Explorer® 8.0, Mozilla® Web Browser Support

Firefox® 3.5, Google® Chrome™ 61.0

Multilingual User Interface English, French, German, Italian, Portuguese,

Arabic, Russian, Spanish, Turkish, Korean,

Simplified Chinese

VIDEO

Video Streams Up to 3 simultaneous streams, the second and third stream are variable based on the setup of the primary stream

Video Overlay Camera name, time, date, and customizable text with multiple supported languages. Embedding of custom images and logos supported.

Available Resolutions

MP	Width	Height	Aspect Ratio
5.0	2592	1944	4:3
3.7	2560	1440	16:9
3.2	2048	1536	4:3
3	2304	1296	16:9
2.1	1920	1080	16:9
1.9	1600	1200	4:3
1.2	1280	960	4:3
0.9	1280	720	16:9
0.5	800	600	4:3
0.3	640	480	4:3
0.2	640	360	16:9
0.1	320	240	4:3
0.1	320	180	16:9

Frame Rates

MP	Images per Second (ips)
5 MP	60, 50, 30, 25, 20, 16.67, 15, 12.5, 10, 7.5, 5, 3, 2, 1
3 MP	30, 25, 20, 16.67, 15, 12.5, 10, 7.5, 5, 3, 2, 1
2 MP	30, 25, 20, 16.67, 15, 12.5, 10, 7.5, 5, 3, 2, 1
1 MP	30, 25, 20, 16.67, 15, 12.5, 10, 7.5, 5, 3, 2, 1

Note: Available frame rates are selectable for each independent stream

depending on the coding, resolution, and stream configuration.

Maximum Frame Rate Up to 60 frames per second at 4 MP on 5 MP

model

Video Encoding H.265, H.264 Main/High, MJPEG

Bit Rate Control

Constrained variable bit rate (CVBR) with

configurable maximum value and constant bit

rate (CBR)

Orientation Modes Corridor Mode, Mirror Mode, Flip Mode.

Electronic image rotation 90, 180, 270

degrees

Window Blanking 8 configurable windows
Flicker Control Selectable 50 Hz or 60 Hz Modes

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 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), Google

Chrome[™] (61.0 or later) or Mozilla[®] Firefox[®] 3.5 (or later); Internet Explorer 8.0 (or later) is recommended for configuring analytics

MODELS

Resolution	Model Number	Description
1 MP	IXP13	Sarix Professional Series Box Camera
2 MP	IXP23	Sarix Professional Series Box Camera
3 MP	IXP33	Sarix Professional Series Box Camera
5 MP	IXP53	Sarix Professional Series Box Camera

CERTIFICATIONS/RATINGS

- CE EN55032 (Class A), EN 50130-4, EN 60950-1
- FCC (Class A) 47 CFR Part 15
- ICES-003 (Class A)
- UL/cUL Listed UL 60950-1, CAN/CSA C22.2 No. 60950-1-07
- KCC
- RCM
- NOM
- EAC
- BIS
- ONVIF Profile S, Profile G, and Profile T Conformant

RECOMMENDED MOUNT

C11-UM Gang box mount
CM1751 Pedestal mount
TB1751 T-rail mount

RECOMMENDED ENCLOSURES

EH14 Series* PoE and 24 VAC indoor/environmental

enclosures

EH20 Series* Indoor and environmental enclosures
EHS8000 Series* Indoor and environmental enclosures

RECOMMENDED LENSES

 M2.8-8.5P
 1-5 MP CS lens, varifocal, 2.8 ~ 8.5 mm, f/1.2

 M9-40P
 1-5 MP CS lens, varifocal, 9 ~ 40 mm, f/1.5

 M1.8-3
 1-5 MP CS lens, varifocal, 1.8 ~ 3 mm, f/1.8

 YV3.3X15SR4A
 1-3 MP CS lens, varifocal, 15 ~ 50 mm, f/1.5

 YV2.8X2.8SR4A
 1-3 MP CS lens, varifocal 2.8 ~ 8 mm, f/1.3

 YV2.7X2.2SR4A
 1-3 MP CS lens, varifocal 2.2 ~ 6 mm, f/1.3

MI2.8-8.5P iCS lens 2.8 ~ 8.5 mm
MI3.9-10P iCS lens 3.9 ~ 10 mm
MI9-50P MPx iCS lens 9 ~ 50 mm

▲ WARNING: Cancer and Reproductive Harm www.P65Warnings.ca.gov. ▲ ADVERTENCIA: Cáncer y Daño Reproductivo www.P65Warnings.ca.gov. ▲ AVERTISSEMENT: Cancer et Troubles de l'appareil reproducteur - www.P65Warnings.ca.gov.

^{*}Not all box/lens types supported.