Sarix[®] IBP Series Environmental Bullets UP TO 5 MP, H.265, H.264, WDR, D/N IP BULLETS WITH INTEGRATED IR

Product Features

- H.265, H.264 Main, High, MJPEG video encoding
- Up to 5 MP resolution at 30 images per second
- Up to 60 images per second (ips) at 4 MP for 5MP cameras
- Autofocus motorized remote zoom lens
- IR illumination up to 50/60/80 meters (for different lenses)
- Operating temperature up to 60°C (140°F)
- Micro SDHC and SDXC card 2 TB addressable, 128 GB testable
- Basic Analytics including Simple Motion Detection and Camera Sabotage
- 24 VAC, 12 VDC, IEEE802.3af (PoE) or IEEE802.at (PoE+)
- Pelco Smart Compression Technology
- Vandal resistant to IK10, IP66/67 ingress protection
- · Compatible with Pelco & third-party video management systems
- ONVIF Profile S, Profile G, Profile Q, and Profile T conformant
- Full 3-year warranty

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 and box. Mix and match the performance options and form factor you need for almost any lighting condition, environment, and application.

IBP Series Bullet Camera

Within the **Sarix Professional** range, the **Sarix IBP Series** outdoor bullet cameras provide options of three kinds of a remote zoom lens for wide angle or long range surveillance needs. Autofocus capability ensures the camera can be automatically refocused when needed. Additionally, the **Sarix IBP Series** features advanced color science, true WDR, and advanced integrated adaptive IR illumination for visibility in different lighting conditions. IK10, IP66/67, and Type 4X compliance ensure enough robustness for challenging environments.

Video

Sarix Professional provide options of three kinds of 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.



Edge Storage

Sarix Professional range cameras feature onboard edge storage with a micro SDHC and 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, Profile Q, 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.







CAMERA

Imaging Device	1/2.8-in	ch							
Imager Type	CMOS								
Imager Readout	Progress	Progressive scan							
Highest Resolution									
5 MP		2592 x 1944							
3 MP	2048 X 1	2048 X 1536							
2 MP		1920 x 1080							
1 MP	1280 x 9								
Electronic Shutter Range		1/10,000 sec ~ 1 sec							
True Wide Dynamic Rang		20 dB, per IEC6							
White Balance		Range: 2,000° to 10,000°K; Selectable ATW (Auto Tracing White Balance), Auto, and Maxwal							
3D Noise Reduction		I/OFF selectable	ما						
Signal to Noise Ratio	≥50 dB	1/011 3616616851	6)						
Minimum Illumination		MP Lens		Sensitivity	Color		Mono		Mono
	14	1P I	lens o	elisitivity	33 ms	200 ms	33 ms	200 ms	(IR On)
	11	MP 2.8 ·	- 12 mm	f/1.4	0.0169 lux	0.00416 lux	0.01 lux	0.0025 lux	0.0 lux
	21	MP 2.8 ·	- 12 mm	f/1.4	0.0169 lux	0.00416 lux	0.01 lux	0.0025 lux	0.0 lux
	21	MP 9 -	22 mm	f/1.5	0.0195 lux	0.00481 lux	0.011 lux	0.00275 lux	0.0 lux
	21	MP 5 -	50 mm	f/1.6	0.0234 lux	0.00585 lux	0.013 lux	0.0032 lux	0.0 lux
	3	MP 2.8 ·	- 12 mm	f/1.4	0.065 lux	0.01625 lux	0.03 lux	0.0075 lux	0.0 lux
	3	MP 5 -	50 mm	f/1.6	0.104 lux	0.026 lux	0.05 lux	0.0125 lux	0.0 lux
	5 I	MP 2.8 ·	- 12 mm	f/1.4	0.26 lux	0.065 lux	0.15 lux	0.0375 lux	0.0 lux
	5 I	MP 7 -	22 mm	f/1.6	0.3 lux	0.078 lux	0.15 lux	0.0375 lux	0.0 lux
Day/Night Capabilities		iical IR Cut Filte ferent set point		JTO),					
IR Illumination	850 nm	Adaptive IR up	to:						
50 m (IBP131-1ER, IBP231-1ER, IBP331-1ER, IBP331-1ER, IBP331-1ER, IBP331-1ER, IBP531-1ER),									
	60 m (IB	P232-1ER, IBPS	532-1ER),						
	80 m (IB	P235-1ER, IBP3	335-1ER);						
Auto ON in night mode, or OFF									
LENS									
Lens type	Built-in;	Built-in; varifocal							
Focal Length		f/1.4 (2.8 ~ 12 mm), f/1.5 (9 ~ 22 mm), or f/1.6 (5 ~ 50 mm and 7 ~ 22 mm)							
Focus	Autofoc	Autofocus, motorized							
Zoom	Remote								
Auto Iris Type	DC-Iris								
	Angle of	IBP131	IBP231	IBP331	IBP531	IBP232	IBP235	IBP335	IBP532
Field of View*	View	Series	Series	Series		Series	Series	Series	Series
Lens		2.8 ~12 mm	2.8 ~ 12 mm	n 2.8 ~ 12 m	ım 2.8 ~ 12 mi	m 9~22 mm	5 ~ 50 mm	5 ~ 50 mm	7 ~ 22 mm
	Diagonal	94°~ 32°	121°~ 39°	120°~ 38	° 120°~ 39°	° 40°~ 18°	68°~ 9°	68°~ 9°	51°~ 21°
-		1	1	-		-1	1	1	1

Vertical *Field of view may vary with changes in resolution settings.

Horizontal

101°~ 34°

53°~ 19°

90°~ 31°

66°~ 24°

90°~ 31°

66°~ 24°

35°~ 15°

20°~ 8°

60°~ 7°

36°~ 4°

57°~ 7°

44°~ 5°

40°~ 17°

30°~ 13°

72°~ 25°

53°~ 19°

VIDEO

Video Streams Text Overlay Up to three simultaneous streams, the second and the third stream are variable based on the setup of the primary stream 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.

Video Encoding	H.265, H.264 High and Main profiles; and MJPEG
Bit Rate Control	Constant bit rate (CBR), constrained variable bit rate (CVBR) with configurable maximum value
Orientation Modes	Corridor Mode, Mirror Mode, Flip Mode, Electronic image rotation 90°, 180°, and 270°
Window Blanking	8 configurable windows
Flicker Control	Selectable 50 Hz or 60 Hz Modes

BASIC ANALYTICS

Sarix Professional range cameras feature basic video analytics including Simple Motion Detection and Camera Sabotage.

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.

PELCO'S SMART COMPRESSION TECHNOLOGY

Pelco's 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 the extent of motion, up to 70% bandwidth savings can be achieved.

AUDIO

Streaming	Bi-directional full duplex
Input	Line level, 3 K ohm differential w/1Vp-p maximum signal
Output	Line level, 600 ohm differential w/1Vp-p
Encoding	G.711 A-law/G.711 U-law

GENERAL

Construction Finish Pan/Tilt Adjustment Pan Tilt Rotate

ELECTRICAL

Network Port Power Input IBP131-1ER, IBP231-1ER, IBP331-1ER, IBP531-1ER

IBP232-1ER, IBP235-1ER, IBP335-1ER, IBP532-1ER

Maximum Power Consumption 12 VDC

24 VAC PoE+ Local Storage

Alarm

Input Output Triggers

ENVIRONMENTAL

Operating Temperature Storage Temperature **Operating Humidity** Storage Humidity Ingress Protection Shock and Vibration Resistance Impact Resistance

Aluminum, polycarbonate window RAL 9003 Manual 0° ~ 355° $0^{\circ} \sim 90^{\circ}$ 0° ~ 355°

RJ-45 connector for 10/100Base-TX

IEEE 802.3af PoE, 18 ~ 32 VAC, 12 VDC +/-10%

IEEE802.3at PoE+, 18 ~ 32 VAC, 12 VDC +/-10%

29.3 W 36.7 W 23 W Micro SDHC or SDXC card 2 TB addressable, 128 GB testable

1; PhotoMOS[™] relay (30 V, 1 A) 1; PhotoMOS[™] relay (30 V, 1 A) Unsupervised mode that detects switch closures (Normally Open and Normally Closed)

-40° to 60°C (-40° to 140°F) -40° to 70°C (-40° to 158°F) 5% to 95%, RH condensing 20% to 80%, RH noncondensing IP66/67, Type 4X

IEC 60068:2-6 and 2-27 IK10 (20 Joules)

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, GB/ T28181, ARP, DDNS, ICMP, IGMP, RTCP, SFTP, SIP, TLS/TTLS, WS-discovery

Up to 5 simultaneous users depending on resolution settings (3 guaranteed streams) Unlimited users H.264/H.265 Password protected, HTTPS, IEEE 802.X, Digest Authentication, IP Filtering

Third-party VMS through Pelco API 1.0 and

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

network outage with option to overwrite;

camera sabotage, motion detection, or alarm

input: record video continuously in the case of

access video through FTP protocol and ONVIF

Microsoft® Internet Explorer® 8.0, Mozilla®

ONVIF Profile S, Profile G, Profile Q, and

Web browser view and setup

VideoXpert; VXToolbox;

Profile T

Profile G

VX Toolbox

Web UI or VX Toolbox

Simplified Chinese

Pelco Mobile

Endura version 2.0 (or later);

Digital Sentry 7.3 (or later);

INTEGRATION

Video Management

Software Interface

Multicast

Security Access

Open API

Users Unicast

Mobile Application Local Storage

Camera Discovery Firmware Upgrade Web Browser Support

Multilingual User Interface

Firefox[®] 3.5, Google[®] Chrome[™] 61.0 and later English, French, German, Italian, Portuguese, Arabic, Russian, Spanish, Turkish, Korean,

CERTIFICATIONS*

• CE - EN 55032 (Class A), EN 50130-4, EN 60950-1

- FCC (Class A) 47 CFR Part 15
- UL and cUL Listed UL 60950-1, CAN/CSA-C22.2 No. 60950-1-07
- UL/IEC/EN 60950-22
- ICES-003 (Class A)
- RCM
- KCC NOM
- EAC
- BIS
- Type 4X and IP66/67 rated enclosure when installed properly
- IEC 60068:2-6 and 2-27
- ONVIF Profile S, Profile G, Profile Q, and Profile T conformant

*At the time of this publication, certifications are pending. Consult the factory or www.pelco.com for the current status of certifications.

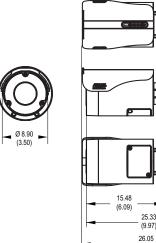
Resolution	Lens	Model Number	Description
1 MP	2.8 to 12 mm	IBP131-1ER	Sarix Pro Environmental Short-Tele Bullet
2 MP	2.8 to 12 mm	IBP231-1ER	Sarix Pro Environmental Short-Tele Bullet
2 MP	9 to 22 mm	IBP232-1ER	Sarix Pro Environmental Middle-Tele Bullet
2 MP	5 to 50 mm	IBP235-1ER	Sarix Pro Environmental Long-Tele Bullet
3 MP	2.8 to 12 mm	IBP331-1ER	Sarix Pro Environmental Short-Tele Bullet
3 MP	5 to 50 mm	IBP335-1ER	Sarix Pro Environmental Long-Tele Bullet
5 MP	2.8 to 12 mm	IBP531-1ER	Sarix Pro Environment Short-Tele Bullet
5 MP	7 to 22 mm	IBP532-1ER	Sarix Pro Environmental Middle-Tele Bullet

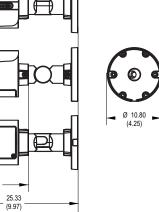
MODELS

VALUES IN PARENTHESES ARE INCHES; ALL OTHERS ARE) CENTIMETERS

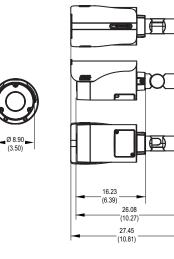
SARIX PRO ENVIRONMENTAL BULLET SHORT LENS (IBP131-1ER, IBP231-1ER, IBP232-1ER, IBP331-1ER, IBP531-1ER, IBP532-1ER)

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SARIX PRO ENVIRONMENTAL BULLET LONG LENS (IBP235-1ER, IBP335-1ER)





RAL 9003

RAL 9003

OPTIONAL ACCESSORIES

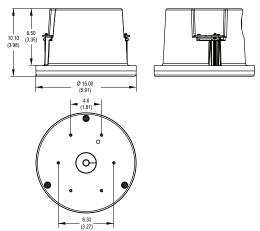
IBP3-PLMT and IBP3-PLMT with IBP3BBAP-ES IBP3BBAP-ES IBP3BBAP-EI

Pole mount Environmental surface mount back box and adapter plate In-ceiling mount



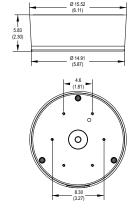
VALUES IN PARENTHESES ARE INCHES; ALL OTHERS ARE CENTIMETERS

IBP3BBAP-EI ENVIRONMENTAL IN-CEILING MOUNT BACK BOX AND ADAPTER PLATE



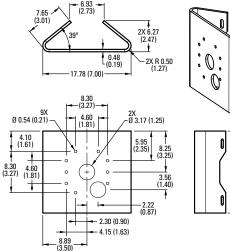
RAL 9003

IBP3BBAP-ES ENVIRONMENTAL SURFACE MOUNT BACK BOX AND ADAPTER PLATE



RAL 9003

IBP3-PLMT ENVIRONMENTAL POLE MOUNT



RAL 9003

▲ 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. and other trademarks associated with Pelco products referrer

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