Sarix® IBP Series Environmental Bullet Cameras

STD DEF/MEGAPIXEL, H.264, D/N IP BULLETS WITH INTEGRATED LENS AND IR

Product Features

- Up to 5 Megapixel (MPx) Resolution
- Up to 30 Images per Second (ips) at 1080p
- Autofocus Motorized Remote Zoom Lens
- Integrated Adaptive IR Illumination
- Accessible Edge Storage with Micro SD Card
- Motion Detection and Camera Sabotage Detection
- Operating Temperature from –40° to 50°C (–40° to 122°F)
- Power over Ethernet (PoE) and 24 VAC Power Input
- Compatible with Pelco and Third-Party Video Systems
- ONVIF Profile S Conformant
- 3-Year Warranty and Support

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 environmental options including IP box cameras, bullet cameras, and domes. 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 **Sarix IBP Series** bullet cameras feature 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, a mechanical IR cut filter, and advanced integrated adaptive IR illumination for increased sensitivity in low-light installations.

Video

Sarix Professional range cameras support up to two simultaneous video streams and a third service stream. The two streams can be compressed with efficient H.264 high or main profiles or MJPEG formats. The streams can be configured to a variety of frame rates and bit rates to optimize image quality with bandwidth and storage efficiency.

Edge Storage

Sarix Professional range bullet cameras feature onboard edge storage with a micro SD 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.

Sarix Professional range cameras feature simple motion detection algorithms allowing 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.

Open and Integrated

Sarix Professional 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 Professional** range cameras integrate with major third-party video management systems through the open Pelco API and other third-party software and systems through the open ONVIF Profile S standard.

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, and streaming.

PELCO by Schneider Electric

ONVIF S

International Standards Organization Registered Firm ISO 9001 Quality System ISO 9001 CERTIFIED

C3943 / REVISED 3-04-14

TECHNICAL SPECIFICATIONS

CAMERA

Imaging Device

MPx	Sensor	Max Resolution
5 MPx	1/3.2-inch	2592 x 1944 (5.0 MPx)
3 MPx	1/3.2-inch	2048 x 1536 (3.1 MPx)
2 MPx	1/3.2-inch	1920 x 1080 (2.1 MPx)
1 MPx	1/4-inch	1280 x 720 (0.9 MPx)
SD	1/4-inch	800 x 600 (0.5 MPx)

Imager Type: CMOS
Imager Readout: Progressive scan
Electronic Shutter Range: 1/5 ~ 1/10,000 sec
Dynamic Range: 65 dB
White Balance Range: 2,500° to 8,000°K
Digital Noise Reduction: Yes (ON/OFF selectable)

Minimum Illumination

MPx	Sensitivity	Color		Mono - with IR Illumination	
		33 ms	200 ms	33 ms	200 ms
5 MPx	f/1.2	0.30 lux	0.02 lux	0.00 lux	0.00 lux
3 MPx	f/1.2	0.30 lux	0.02 lux	0.00 lux	0.00 lux
2 MPx	f/1.2	0.30 lux	0.02 lux	0.00 lux	0.00 lux
1 MPx	f/1.4	0.30 lux	0.02 lux	0.00 lux	0.00 lux
SD	f/1.4	0.30 lux	0.02 lux	0.00 lux	0.00 lux

Mechanical IR Cut Filter: Yes (AUTO/MANUAL selectable), with different set points on lux
IR Illumination: Adaptive IR up to 25 m; auto ON in night mode, or OFF

LENS

Lens type: Built-in; varifocal
Focal Length: f/1.2, 3 ~ 9 mm
Focus: Autofocus, motorized
Zoom: Remote
Auto Iris Type: DC drive P-iris lens

Maximum Field of View*

MPx	Focal Length	Mode (Aspect Ratio)	Angle of View		
			Diagonal	Horizontal	Vertical
5	Wide	4:3	112°	88°	64°
	Tele	4:3	37°	30°	22°
3	Wide	4:3	111°	87°	64°
	Tele	4:3	37°	30°	22°
2	Wide	4:3	85°	67°	49°
	Tele	4:3	29°	23°	17°
	Wide	16:9	94°	81°	44°
	Tele	16:9	32°	28°	16°
1	Wide	4:3	74°	58°	41°
	Tele	4:3	23°	19°	14°
	Wide	16:9	84°	71°	37°
	Tele	16:9	26°	22°	13°
SD	Wide	4:3	74°	58°	41°
	Tele	4:3	23°	19°	14°

*Field of view may vary with changes in resolution settings

TECHNICAL SPECIFICATIONS

VIDEO

Video Streams: Up to 2 simultaneous streams, plus service stream; the secondary stream is variable based on the setup of the primary stream

Video Overlay: Camera name, time, date

Available Resolutions:

MPx	Width	Height	Aspect Ratio
5.0	2592	1944	4:3
3.1	2048	1536	4:3
2.1	1920	1080	16:9
1.9	1600	1200	4:3
1.2	1280	960	4:3
0.9	1280	720	16:9
0.6	1024	576	16:9
0.5	800	600	4:3
0.3	640	480	4:3
0.1	320	240	4:3
0.1	320	180	16:9

Frame Rates:

MPx	Images Per Second (ips)
5 MPx	12 (full), 10, 5, 1
3 MPx	20 (full), 16.67, 15, 12.5, 10, 5, 1
2 MPx	30 (full), 25, 20, 16.67, 15, 12.5, 10, 5, 1
1 MPx	30 (full), 25, 20, 16.67, 15, 12.5, 10, 5, 1
SD	30 (full), 25, 20, 16.67, 15, 12.5, 10, 5, 1

Note: Available frame rates are selectable for each independent stream depending on the coding, resolution, and stream configuration.

Video Encoding: H.264 high or main profiles; and MJPEG

Bit Rate Control: Constant bit rate (CBR), constrained variable bit rate (CVBR) with target range

Service Stream: 320 x 240 (0.1 MPx) or 320 x 180; 2 ips, MJPEG

Window Blanking: 4 configurable windows

AUDIO

Streaming: Dual-channel

Input: Line in/terminal block

Encoding: G.711 A-law/G.711 U-law

TECHNICAL SPECIFICATIONS

GENERAL

Construction	Die cast aluminum, cylindrical
Ingress Protection	IP66 per IEC 60529
Vandal Resistance	IK10 (20J impact) per IEC 62262
Finish	Light gray, RAL 9022; satin texture
Unit Weight	1.76 kg (3.89 lb)
Shipping Weight	2.35 kg (5.18 lb)

ELECTRICAL

Network Port	RJ-45 connector for 100Base-TX
Power Input	PoE (IEEE 802.3af, Class 3); 24 VAC nominal, 18 to 32 VAC range
Power Consumption	< 11.50 W
Local Storage	Up to 32 GB on Micro SDHC or SDXC card
Alarm	
Input	1
Output	1; PhotoMOS™ relay (30 V, 1 A)
Triggers	Unsupervised mode that detects switch closures (N.O. and N.C.)

ENVIRONMENTAL

Operating Temperature*	–40° to 50°C (–40° to 122°F)
Storage Temperature	–40° to 60°C (–40° to 140°F)
Operating Humidity	15% to 85%, RH condensing
Storage Humidity	20% to 80%, RH noncondensing
Shock and Vibration	IEC 60068:2-27; IEC 60068:2-6

*Thermostatically controlled heating provides ramped heating control between the initial heater on at 15°C (59°F) and full heating mode at –40°C (–40°F).

NETWORK

Supported Protocols	TCP/IP, UDP/IP (Unicast, Multicast IGMP), ICMP, IPv4, SNMP v2c/v3, HTTP, HTTPS, SSL, SSH, SMTP, FTP, RTSP, UPnP, DNS, NTP, RTP, RTCP, LDAP (client), QoS
Users	
Unicast	1 administrator, up to 4 viewers
Multicast	Unlimited users H.264
Security Access	Multiple user access levels with password protection

INTEGRATION

Video Management	Digital Sentry 7.3 (or later); Endura 2.0 (or later); Third-party VMS through Pelco API 1.0 and ONVIF Profile S
Mobile Application	Integrated to Pelco Mobile App
Video Motion Detection	Simple motion detection and camera sabotage
Local Storage	Capture 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
Camera Discovery and Firmware	Cameras discovered and firmware upgraded through Pelco Device Utility 2 version 2.2; cameras discovered and firmware upgrade through Endura Utilities
Web Browser Support	Microsoft® Internet Explorer® 8.0 and later

CERTIFICATIONS*

- CE - EN 55022 (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
- ICES-003
- KCC

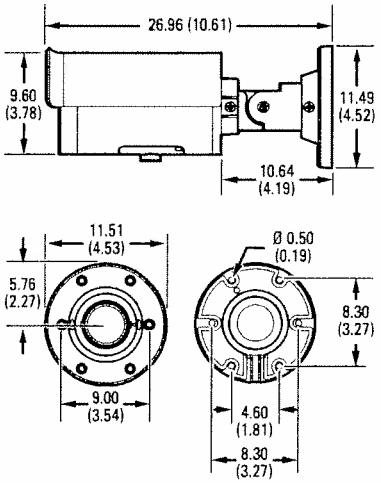
* At the time of this publication, certifications are pending. Please consult the factory, our Web site (*www.pelco.com*), or the most recent B.O.S.S.® update for the current status of certifications.

TECHNICAL SPECIFICATIONS

MODELS

IBPS110-ER	Sarix SD environmental IR, fixed bullet camera with auto focus and 2.8 to 10 mm remote zoom lens
IBP1110-ER	Sarix 1 MPx environmental IR, fixed bullet camera with auto focus and 2.8 to 10 mm remote zoom lens
IBP219-ER	Sarix 2 MPx environmental IR, fixed bullet camera with auto focus and 3 to 9 mm remote zoom lens
IBP319-ER	Sarix 3 MPx environmental IR, fixed bullet camera with auto focus and 3 to 9 mm remote zoom lens
IBP519-ER	Sarix 5 MPx environmental IR, fixed bullet camera with auto focus and 3 to 9 mm remote zoom lens

VALUES IN PARENTHESES ARE INCHES; ALL OTHERS ARE CENTIMETERS



TECHNICAL SPECIFICATIONS

OPTIONAL ACCESSORIES

IBPBBAP-EI	Environmental in-ceiling back box and adaptor plate
IBPBBAP-ES	Environmental surface mount back box and adaptor plate
IPCT01	Pelco IP camera tester*

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

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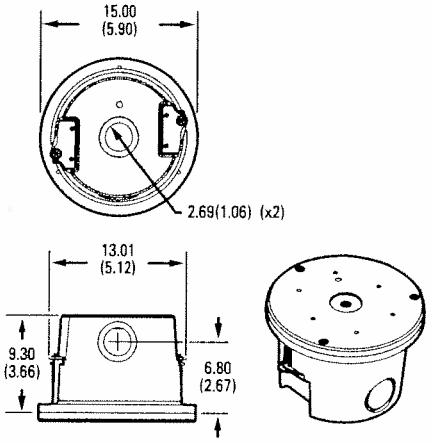
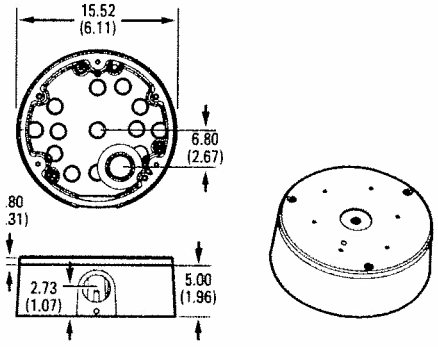
IBPBBAP-EI ENVIRONMENTAL IN-CEILING MOUNT BACK BOX AND ADAPTOR PLATE



IPBBAP-ES ENVIRONMENTAL SURFACE MOUNT BACK BOX AND ADAPTOR PLATE



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