

Sarix® IBD High-Security Corner-Mount Cameras

UP TO 3 MEGAPIXEL, IK10+ 50 JOULE, IP66, H.264

Product Features

- 1 or 3 megapixel (MPx) resolution
- Up to 30 images per second (ips) at 3 MPx
- Operating temperature up to 55°C (131°F)
- Up to 128 GB edge storage with micro SD card
- Motion detection and camera sabotage detection
- Power over Ethernet (PoE) Class 3, 24 VAC, ± 10%, 12 VDC
- Pelco Smart Compression Technology
- Vandal resistant to IK10+ 50 joule, IP66 ingress protection
- Compatible with Pelco and third-party video systems
- ONVIF Profile S, Profile G, and Profile Q conformant
- Full 3-Year warranty and support

Corner-Mount, Vandal-Resistant Design

The **Sarix IBD Series** High-Security Corner-Mount Camera is designed for use in protected, high-risk areas. It features an anti-ligature, no-grip design without anchor points, and fits flush to corners protecting against attempts to detach or disable the camera. Despite sitting flush to a single corner, the camera's 45° angled position allows it to capture video for an entire 10 by 10 m (32.8 x 32.8 ft.) room, including directly below the camera. The camera provides high, 3 megapixel resolution imaging sensor and IR illumination, allowing you to capture high quality video in high-risk areas under any lighting condition.

Camera

The **Sarix IBD Series** indoor and outdoor corner mount cameras feature a fixed lens for wide angle or long range surveillance needs. Additionally, the **Sarix IBD Series** features advanced color science, a mechanical IR cut filter, and advanced integrated adaptive (940 nm no glow) IR illumination for increased sensitivity in low-light installations.

Video

Sarix IBD Series 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.



- Digital audio
- 940 nm IR (no glow)

Edge Storage

Sarix IBD Series 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 or by using an ONVIF Profile G enabled client.

Sarix IBD Series 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.

Open and Integrated

Sarix IBD Series cameras seamlessly connect to Pelco video management systems such as VideoXpert™, Endura® version 2.0 (or later), and Digital Sentry® version 7.3 (or later). **Sarix IBD Series** cameras integrate with major third-party systems through the ONVIF Profile S, Profile G, and Profile Q 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, and streaming.



by Schneider Electric



International Standards
Organization Registered Firm;
ISO 9001 Quality System



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TECHNICAL SPECIFICATIONS

CAMERA

Imaging Device

MPx	Sensor	Maximum Resolution
3 MPx	1/2.8-inch	2048 x 1536 (3.0 MPx)
1 MPx	1/2.8-inch	1280 x 960 (1.2 MPx)

Imager Type

CMOS

Dynamic Range

75 dB

Imager Readout

Progressive scan

White Balance Range

2,000° to 10,000°K

Electronic Shutter Range

1/5 ~ 1/10,000 sec (1 MPx)

3D Digital Noise Reduction

Yes (ON/OFF selectable)

1/5 ~ 1/10,000 sec (3 MPx)

Signal to Noise Ratio

±50 dB

Minimum Illumination

MPx	Sensitivity	Color		Mono - with IR Illumination	
		33 ms	200 ms	33 ms	200 ms
3 MPx	f/2.1	0.2 lux	0.02 lux	0.00 lux	0.00 lux
1 MPx	f/2.1	0.2 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 10 m; auto ON in night mode, or OFF, 940 nm IR (no glow)

LENS

Lens type

Built-in; fixed focal length

Focal Length

1.8 mm

Field of View*

Lens	Angle of View	1 MPx	3 MPx
1.8 mm	Horizontal	115°	120°
	Vertical	86°	90°

*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
Text Overlay Camera name, time, date, and customizable text with multiple languages supported

Available Resolutions

MPx	Width	Height	Aspect Ratio
3.1	2048	1536	4:3
1.2	1280	960	4:3

Frame Rates

MPx	Images per Second (ips)
3 MPx	30, 25, 20, 16.67, 15, 12.5, 10, 7.5, 5, 3.2, 1
1 MPx	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.264 High, Main, and Baseline profiles; and MJPEG
Bit Rate Control Constant bit rate (CBR), constrained variable bit rate (CVBR) with configurable maximum value
Corridor Mode Electronic image flip and mirror: 180°, 90° and 270° (H.264 only)
Service Stream 640 x 480 or 640 x 352; 2 ips, JPEG
Window Blanking 8 configurable windows

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 intelligent decisions regarding 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 motion occurring, such as a store room that has limited entry and exit, up to 70% bandwidth savings can be achieved.

AUDIO

Streaming Bi-directional
Input Line In/Line Out terminal block
Encoding G.711 U-law
Microphone Built-in digital microphone

TECHNICAL SPECIFICATIONS

GENERAL

Construction	Die cast aluminum, corner-mount design
Ingress Protection	IP66
	Type 4X
Vandal Resistance	IK10+ (50 Joule)
Finish	RAL 9003
Unit Weight	1.15 kg (2.54 lb)
Shipping Weight	1.75 kg (3.86 lb)

ELECTRICAL

Network Port	RJ-45 connector for 10/100Base-TX
Power Input	PoE (IEEE 802.3af, Class 3); 24 VAC± 10%, 12 VDC± 10%

Power Consumption

		Heater ON	Heater OFF
With IR ON	12 VDC	12.8 W	11.9 W
	24 VAC	9.5 W	8.7 W
	PoE	9.2 W	8.3 W
With IR OFF	12 VDC	9 W	8.1 W
	24 VAC	6.9 W	6.1 W
	PoE	6.8 W	5.9 W

Local Storage	Up to 128 GB on Micro SDHC or Micro SDXC card
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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	−10° to 55°C (14° to 131°F)
Storage Temperature	−40° to 60°C (−40° to 140°F)
Operating Humidity	0% to 90%, RH condensing
Storage Humidity	0% to 90%, RH noncondensing

APPLICATIONS

- Correctional facilities
- Waiting rooms
- Hospital recovery rooms
- Psychiatric care rooms
- Vandal-prone areas
- Indoor CCTV

NETWORK

Supported Protocols	TCP/IP, UDP/IP (Unicast, Multicast IGMP), ICMP, IPv4, IPv6, SNMP v2c/v3, HTTP, HTTPS, SSL, SSH, SMTP, FTP, RTSP, UPnP, DNS, NTP, RTP, RTCP, LDAP (client), QoS, GB28181
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	VideoXpert; Endura version 2.0 (or later); Digital Sentry 7.3 (or later); Third-party VMS through ONVIF Profile S, Profile G, and Profile Q
Mobile Application	Pelco Mobile
Analytics	Simple motion detection and camera sabotage detection
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 and Firmware	Discover cameras and upgrade firmware using VideoXpert Toolbox, the Pelco Device Utility 2 version 2.2 or later
Web Browser Support	Microsoft® Internet Explorer® 9.0, Apple® Safari® 7.0.6, Mozilla® Firefox® 31.0, Google® Chrome™ 37.0.2062.124 m and later
Multilingual User Interface	English, French, German, Italian, Portuguese, Arabic, Russian, Spanish, Turkish, Korean, Simplified Chinese

CERTIFICATIONS*

- CE
- FCC
- ICES-003
- UL and cUL Listed
- RCM
- KC
- IP66 and IK10 ratings
- ONVIF Profile S, Profile G, and Profile Q conformant, IEC 62676-2-3

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

TECHNICAL SPECIFICATIONS

MODELS

Resolution	Model Number	Description
1 MPx	IBD129-1	Rugged Corner Mount Camera, IR, 12 VDC/24 VAC, PoE
3 MPx	IBD329-1	Rugged Corner Mount Camera, IR, 12 VDC/24 VAC, PoE



VALUES IN PARENTHESES ARE INCHES; ALL OTHERS ARE CENTIMETERS

IBD SERIES CORNER MOUNT HIGH-SECURITY CAMERA

