

Endless adaptability

Endura

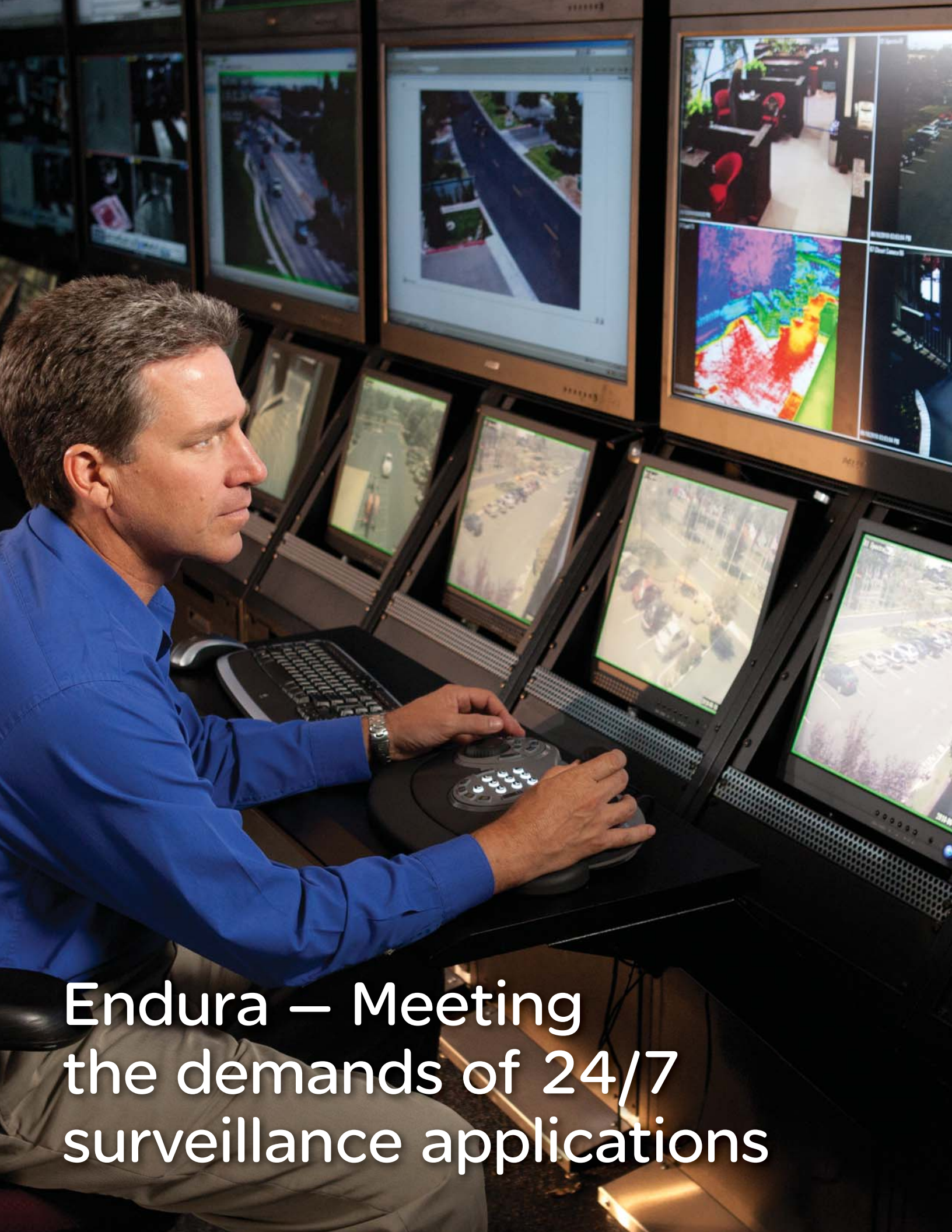
IP video management system



Discover the power of integrated security.

PELCO

by **Schneider** Electric



Endura – Meeting
the demands of 24/7
surveillance applications

When reliability matters most

Endura is the ideal video management system (VMS) for mission-critical surveillance operations requiring around-the-clock monitoring and unwavering reliability. It provides the tools security and IT professionals need to effectively safeguard people and property. Customizable permission settings and unlimited user profiles enable access for multiple stakeholders, driving greater return on security investment across your enterprise.

Reliability for 24/7 surveillance

As a distributed system, Endura™ architecture ensures that there is no single point of failure that would compromise user access to or continued recording of active devices. Endura is designed with multiple levels of redundancy to ensure maximum system uptime. From redundancies in the purpose-built hardware, to sophisticated active failover schemes in the recording sub-system, to an architecture that allows for individual components to continue operating in the event of a failure elsewhere on the system, Endura is engineered to address the complex requirements of mission-critical surveillance applications.

Dependable scalability

Scalable to accept thousands of HD and megapixel cameras, the Endura system is an intelligent, yet easy-to-use approach to video security that provides greater control, enhanced operational flexibility, centralized management, cost-effective recording, and integration capabilities. Endura has been engineered to offer the quality and responsiveness of traditional analog installations with all the benefits of an IP VMS system. What's more, Endura offers several options for existing analog matrix customers to migrate to an IP VMS system at their own pace. Customizable permission settings enable system administrators to provide access for an unlimited number of users who require different levels of visibility and administration.

Endless adaptability

Endura systems can integrate with other physical security systems and building systems to deliver situational awareness and control. Built around open standards, Endura includes a complete application programming interface (API), software development kits (SDKs), and dedicated technical support, which allow other systems manufacturers to develop interfaces for and leverage Endura capabilities. Additionally, Pelco™ by Schneider Electric™ has developed interfaces in Endura for third-party IP cameras, allowing users to choose across hundreds of camera options from Pelco and third-party partners when configuring a system. An Endura Certification Program ensures that all installations and support are done by highly trained professionals.

Endura is designed to fit a wide range of customer applications – including airports, casinos, and city surveillance – where unmatched fault tolerance and system integrity are mandatory.



Airports



Gaming



City surveillance

Endura IP VMS for mission-critical surveillance with unwavering reliability



A system to meet your specific needs

The Endura IP video management system offers unbridled scalability, uncompromised performance, and the unwavering reliability required for mission-critical surveillance applications. With the ability to scale thousands of cameras, Endura is designed to fit a wide range of applications – including airports, casinos, and city surveillance – where unmatched fault tolerance and system integrity are mandatory.

All IP

For new installations with large, mission-critical surveillance requirements looking to invest in IP, Endura is ideal. With its increasingly scalable approach that's easy to manage and monitor, Endura grows with the needs of the business while providing 24/7 performance. Accommodating thousands of cameras and with unlimited recording storage capacity, Endura is specifically designed to ensure continuous system availability.

Analog to IP

For those installations with an existing investment in analog systems, Endura makes the analog to IP migration an easy one. Endura can act as a recording system, emulate an analog matrix node, or replace the analog matrix functionality while retaining its familiar user interface and operational feel, allowing existing customers to migrate at their own pace to take advantage of the benefits of IP technology. Scalable to gracefully accept any number and mixture of standard resolution, HD, and megapixel cameras, Endura maintains its performance, operational control, and management attributes regardless of the number and size of cameras it is managing for any critical surveillance application. Nothing else compares to the power of the Endura architecture, which is engineered to minimize latency at every link within the system.

Access from anywhere

Endura now provides access to mission-critical video – wherever you may be. With the built-in transcoding engine and web server in the SM5200, Endura cameras and recorded footage can be accessed from any web browser or mobile device, regardless of the topology and bandwidth. For current Endura users with an SM5000 System Manager, upgrading to a new SM5200 is quick and easy. A simple procedure backs up user, camera, and device databases from the SM5000 to a flash drive and restores these databases to the new SM5200 – making for a seamless migration.



Pelco Mobile app adds convenience

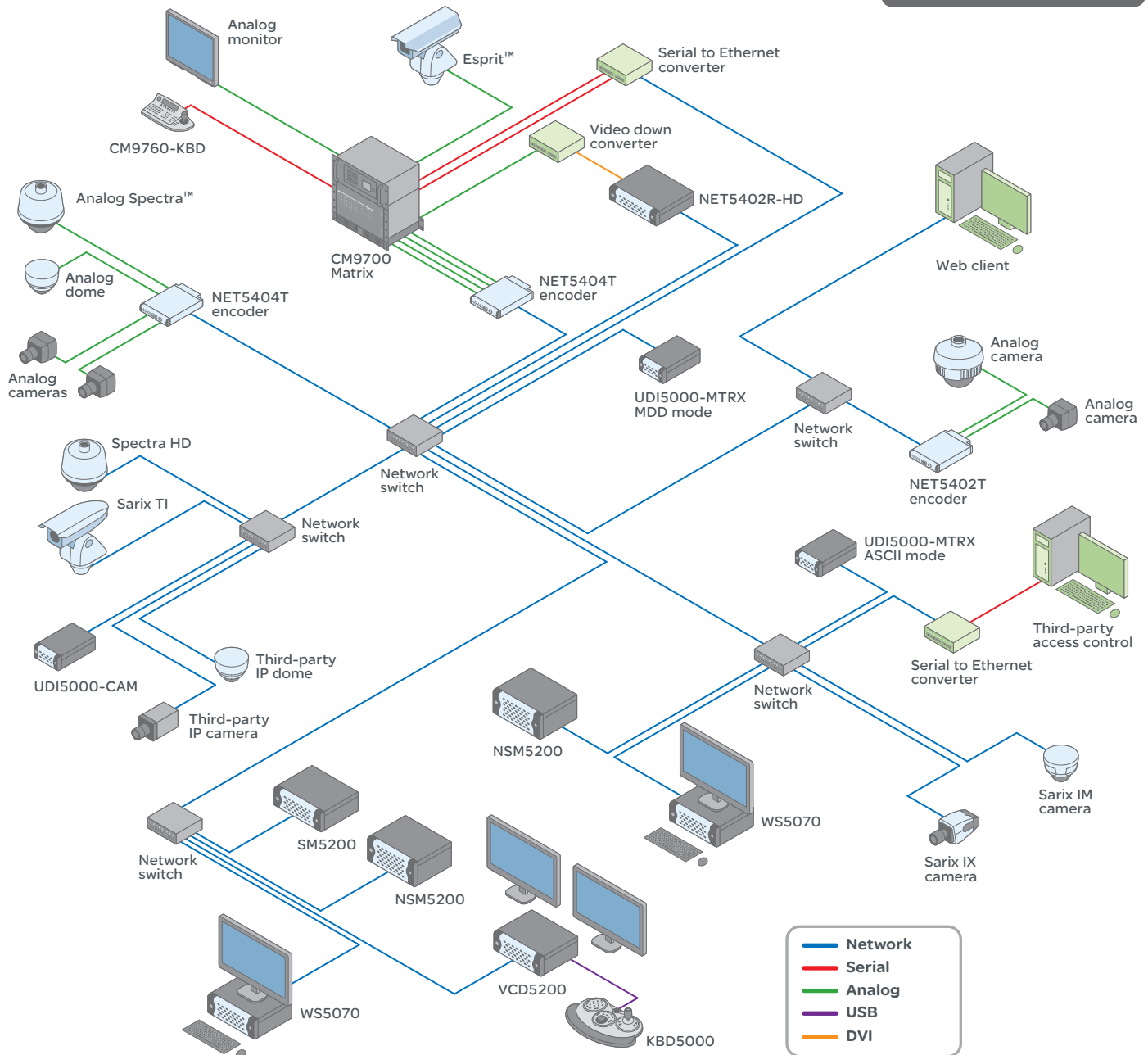
Pelco Mobile™ provides remote access to live video direct from Digital Sentry™ systems, Endura systems equipped with the SM5200, or independent Sarix™ cameras. Now you can monitor the people and property you are protecting from anywhere you may be. Featuring a sleek, easy-to-use interface, Pelco Mobile is supported on mobile devices using the Apple® iOS and Android™ platforms.

Requires Endura SM5200; Digital Sentry v.7.3.54 or later; Sarix v.1.7 or later
Apple is a registered trademark of Apple Inc.
Android is a trademark of Google Inc.

Endura IP video management system

Endura is specifically designed to ensure there is no single point of failure to meet the demands of 24/7 surveillance applications.

Example of an Endura system



Endura components

With a complete range of solutions components, including NVRs, software, encoders, decoders, workstations, and keyboards, Endura is the ideal video management system for mission-critical surveillance operations that require around-the-clock monitoring and unwavering reliability.

Endura components	
SM5200	Endura Video Management System
NSM5200	Endura Network Video Recorder
WS5070	Endura Workstation with Advanced System Management
WS5200 software	Endura System Management Software
NET5402R-HD	High-Definition, Multi-Stream Network Video Decoder
WS5200-MAP	Map-Based Extension for Endura Workstation
VCD5202	Multichannel Video Display and User Interface
KBD5000	Full Function Endura Keyboard with PTZ Control
NET5400T	Dual Stream Encoder, Video Analytics Processor



SM5200



NSM5200



KBD5000

Endura VMS by the numbers	
Maximum number of cameras (analog + IP)	Thousands
Maximum number of analog cameras	Thousands with network video encoders
Number of megapixel IP cameras	Thousands
Maximum recording bandwidth per server	250 Mbps with 64 Mbps playback
Storage	Unlimited
RAID Recording	RAID 6

Features



Endura IP VMS features

- > Ability to support thousands of analog and IP cameras
- > Ideal for attended surveillance (keyboard, virtual matrix)
- > Unlimited user profiles to serve multiple stakeholders
- > Redundancy for mission-critical reliability
- > Broad integration to other building and security systems
- > Maximum recording bandwidth per server is 250 Mbps with 64 Mbps playback
- > Unlimited storage expansion
- > Equipped with RAID 6 recording

New SM5200 features

- > Stream Endura video over low bandwidth connections
- > Web browser support for administration, viewing, and export
- > Ability to easily share video with multiple stakeholders
- > Realize greater business value via easier access to video



For more information, please visit www.pelco.com or call (800) 289-9100 (United States and Canada) or +1 (559) 292-1981 (international). For pricing information or to purchase Pelco products, please contact your manufacturer's representative or the Pelco office in your area.

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PELCO

by **Schneider** Electric

EnduraXpress

Network Video Appliance



EnduraXpress: Enterprise Performance for Everyone

You shouldn't have to be a huge enterprise to enjoy the benefits of enterprise IP video performance – robust recording, full HD support, redundancy and reliability. That's why Pelco is introducing the EnduraXpress network appliance.



EnduraXpress: Network Video Appliance



As a network appliance, EnduraXpress removes the complexity of deploying and configuring an IP video surveillance solution. EnduraXpress combines the performance, reliability and robustness of an enterprise-class, mission-critical storage management system into a compact, easy to install, easy to use unit.

Why a Network Appliance?

EnduraXpress integrates the recording server, recording software, and storage array into a highly optimized chassis that easily supports both standard resolution and megapixel camera recording workloads. It offers ease of installation and management that is critical for delivering a cost-effective solution to small-scale installations.

Built for Video Surveillance

EnduraXpress makes enterprise –class HD video easy and affordable, with simplified installation, support for megapixel cameras, and uncompromised data protection. Enterprise-class hard disk drives, RAID6 storage management, and redundant fans and power supplies provide the reliability and fault-tolerance needed for mission critical applications.

Optimized for HD

Purpose-built for video surveillance, EnduraXpress is designed to handle HD video with guaranteed performance. Its 250 Mbps recording throughput means it can easily accommodate 64 Full HD streams from Sarix™ cameras. With support for MPEG-4 and multiple H.264 profiles (high, main and baseline), EnduraXpress offers unmatched flexibility for optimizing bandwidth and image quality.

Open & Integrated

While optimized to work with the Pelco Sarix™ family of cameras, Pelco also recognizes that customers want choices. With support for cameras from Axis, Arecont, IQinVision, Panasonic and Sony, as well as options to leverage non-Pelco storage systems, EnduraXpress offers the benefits of open standards on purpose-built hardware components.

No Certification Required

EnduraXpress is designed to minimize costs on multiple fronts. With up to 24TB of internal storage, the need for external storage is reduced. Simplified design means no certification is required to install or operate the system. Integrators need no special storage expertise to size a system. End-users need no special video expertise to operate EnduraXpress. The end result is a dramatically cost-effective solution.



Designed for HD



Optimized for Use with Sarix Cameras



Makes Full Use of HD Monitors



Third-Party Support



Endura Compatibility

As part of the Endura family, EnduraXpress offers the same commitment to open & integrated solutions as the rest of Endura. That means it can support the same integration to access control and similar systems, the same third-party cameras, and the same third-party storage expansion. Initially, EnduraXpress is targeted for stand-alone operation. In future developments, it will be able to connect to a full Endura system, providing new paths for scalability and performance.

EnduraStor™

Patented EnduraStor technology from Pelco means high quality video no longer requires high storage cost. EnduraStor records essential video at higher frame rates, and automatically reduces it to a lower rate after a preprogrammed time. This delayed time-lapse recording means improved retention times. EnduraStor makes real-time video available when users need it most, while optimizing storage capacity and cost.

EnduraView™

High definition video and megapixel cameras place demands on video surveillance systems. Taking advantage of Endura's dual video streams, EnduraView ensures the quality of both the live and recorded video on any workstation. In multi-camera viewing mode, EnduraView automatically displays a less resource-intensive stream, while still recording the high quality video stream. EnduraView makes sure your viewing experience is not disrupted, no matter the layout or cameras you choose at anytime.

Where It Fits Best

For medium-sized installations that are committed to higher quality or megapixel video, EnduraXpress provides a reliable path to 64 full HD cameras, recording on a single unit. For an enterprise that seeks to standardize on a single platform for multiple sites, EnduraXpress provides a replicable, easy-to-deploy solution. And for any site taking a step-by-step approach to HD video, EnduraXpress offers a cost –effective, easily managed solution.



Corrections



School and Campus Environments

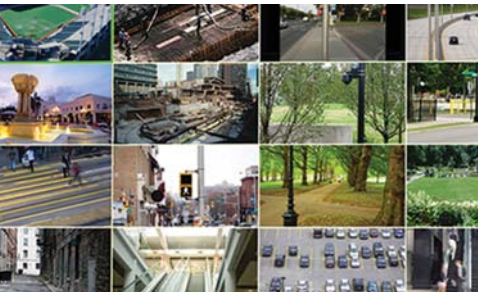


Health Care



Municipal Facilities

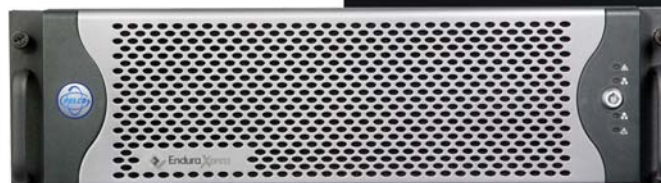
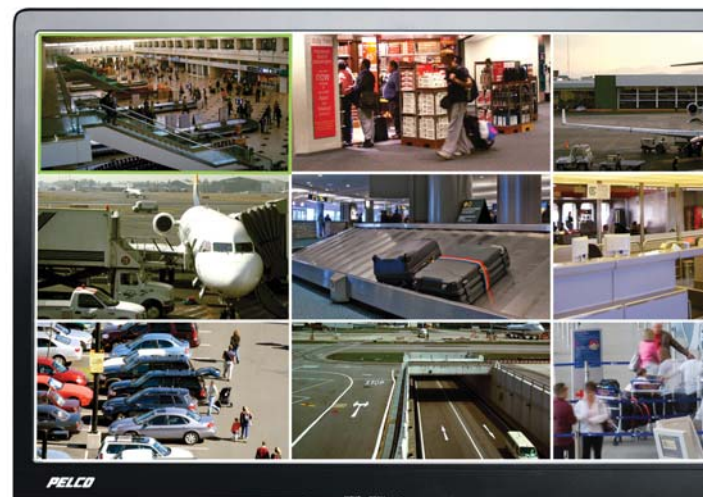
EnduraXpress Benefits & Features



EnduraXpress ushers in a new era in IP video recording. With EnduraXpress, Pelco has removed the need for Endura certification, making enterprise-class HD video available to everyone. No special networking expertise is required. That makes EnduraXpress easy to install, and even easier to use.

Benefits & Features

- Recording Throughput up to 250 Mbps Meets Demanding Performance Requirements for Write-Intensive Applications
- Hardware Designed to Eliminate Single Points of Failure, Including Redundant Fans, Power Supplies, and RAID 6 Storage for Optimum Reliability
- Built-in EnduraStor™ Storage Management Increases Storage Efficiency by Grooming Recorded Streams Based on Age and Priority
- Ability to Serve 32 Simultaneous Playback Streams
- Performance Levels Maintained in Normal and RAID Error Conditions
- Built-in Diagnostic Monitoring Provides Preventative Maintenance and SNMP Monitoring
- Ships with Endura® WS5200 Software Licenses:
 - WS Software Runs on a Standard PC with Microsoft® Windows® XP Professional and 32-Bit Versions of Windows Vista® Business, Ultimate, or Enterprise Operating Systems
 - Support for Standard Resolution and Megapixel Cameras
 - Support for MPEG-4, H.264 Baseline, Main, and High-Profile Codecs
 - Zone of Interest™ Allows Independent View and Management of Specified Areas Within a Camera's Field of View in Live or Playback Views
 - Digital Zoom in Live or Playback Views
 - Convenient Tear-Off Options to Customize Display





This level of performance, reliability and storage management makes EnduraXpress the ideal choice for a wide array of applications including airports, health care, education, and beyond.

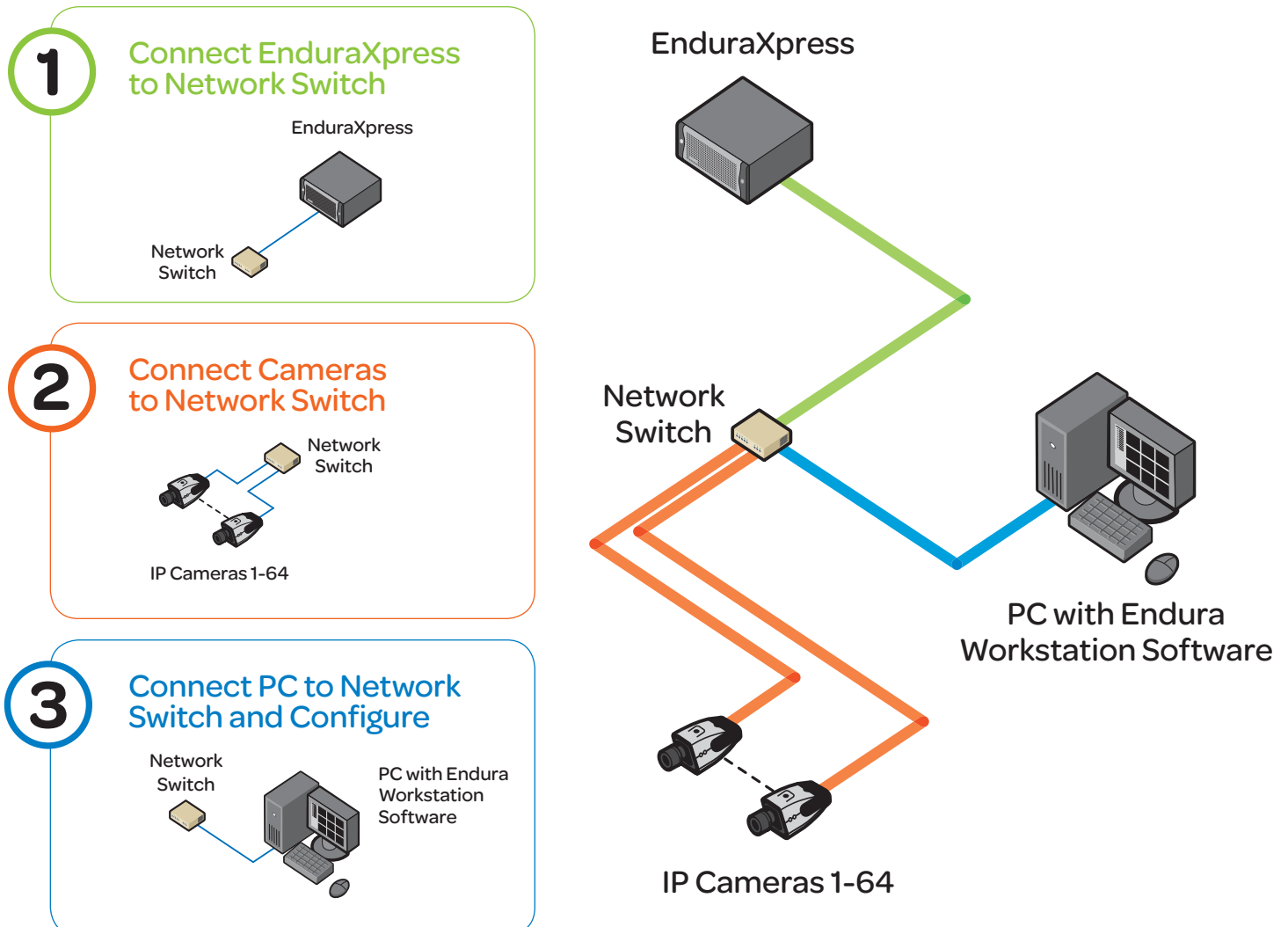
EnduraXpress Network Video Appliance



With EnduraXpress, HD Video has never been so simple. Setting up a 32- to 64-camera system is as easy as connecting the EnduraXpress appliance, plugging IP cameras into your network, and installing workstation software on a Windows™ PC – you're up and running.

HD Video. Now as Easy as ① - ② - ③

EnduraXpress High-Performance, HD Video Management





The recognized worldwide leader in video and security systems, Pelco boasts the most comprehensive array of products, services and expertise available in today's marketplace. And now as a member of the Schneider Electric family, Pelco brings a network of assets backed by the strength of a Fortune 500 company to help you define and achieve your business objectives.

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PELCO

by **Schneider** Electric

Product Comparison Guide

IP Video Solutions



Choose with Confidence.

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As the global leader in the design and development of video and security systems, Pelco™ by Schneider Electric™ produces an unmatched array of IP cameras, HD displays, and network video management systems. From end-to-end HD cameras, to open and integrated solutions, Pelco has an IP video solution to suit your application.

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Limitless Possibilities

Any Lighting Condition. Any Environment. Any Application.



With thousands of IP cameras to choose from, Pelco™ by Schneider Electric™ has the right network-based video surveillance camera for any lighting condition, environment, and application.






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Choose with Confidence.

Network Indoor Dome Cameras

Designed for performance, premium experience, and mission-critical applications, the Sarix™ Enhanced Range with SureVision 2.0 delivers industry-leading image quality in the most difficult lighting conditions. The Sarix™ Professional Range packs the most popular features and functionality of Sarix technology into a variety of indoor IP cameras. Mix and match the form factors you need for one of the widest selections of cameras in the industry.

Sarix™ IME Series Indoor Mini Domes with SureVision™ 2.0					
	 IME19-1x*	 IME119-1x*	 IME219-1x*	 IME319-1x*, IME319-B1x*	 IME3122-1x*, IME3122-B1x*
Max resolution	800x600	1280x1024	1920x1080	2048x1536	2048x1536
Image sensor	1/3-inch CMOS	1/3-inch CMOS	1/3-inch CMOS	1/3-inch CMOS	1/3-inch CMOS
Lens	3-9 mm, varifocal	3-9 mm, varifocal	3-9 mm, varifocal	3-9 mm, varifocal	9-22 mm, varifocal
Focus/zoom	Auto focus, remote zoom	Auto focus, remote zoom	Auto focus, remote zoom	Auto focus, remote zoom	Auto focus, remote zoom
Day/night	Yes	Yes	Yes	Yes	Yes
Wide dynamic range	100 dB	100 dB	100 dB	100 dB	100 dB
Illumination	0.0013 lux @ f/1.2	0.0013 lux @ f/1.2	0.0013 lux @ f/1.2	0.0013 lux @ f/1.2	0.002 lux @ f/1.6
Video compression	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG
Max IPS at max resolution	30 ips	30 ips	30 ips	30 ips	30 ips
Video streams	2 configurable streams	2 configurable streams	2 configurable streams	2 configurable streams	2 configurable streams
Audio	Bidirectional, built in Mic	Bidirectional, built in Mic	Bidirectional, built in Mic	Bidirectional, built in Mic	Bidirectional, built in Mic
Alarm in/out	Yes, Multiple alarms with ALM-1 accessory	Yes, Multiple alarms with ALM-1 accessory	Yes, Multiple alarms with ALM-1 accessory	Yes, Multiple alarms with ALM-1 accessory	Yes, Multiple alarms with ALM-1 accessory
Analytics	Adaptive Motion/Camera Sabotage***	Adaptive Motion/Camera Sabotage***	Adaptive Motion/Camera Sabotage***	Adaptive Motion/Camera Sabotage***	Adaptive Motion/Camera Sabotage***
Local storage	Up to 32GB with microSDHC+	Up to 32GB with microSDHC+	Up to 32GB with microSDHC+	Up to 32GB with microSDHC+	Up to 32GB with microSDHC+
Network protocols	*TCP/IP, UDP/IP (Unicast, Multicast IGMP), UPnP, DNS, DHCP, RTP, RTSP, NTP, IPv4, IPv6, SNMP v2c/v3, QoS, HTTP, HTTPS, LDAP (client), SSH, SSL, SMTP, FTP, ARP, ICMP, and 802.1x (EAP)*	*TCP/IP, UDP/IP (Unicast, Multicast IGMP), UPnP, DNS, DHCP, RTP, RTSP, NTP, IPv4, IPv6, SNMP v2c/v3, QoS, HTTP, HTTPS, LDAP (client), SSH, SSL, SMTP, FTP, ARP, ICMP, and 802.1x (EAP)*	*TCP/IP, UDP/IP (Unicast, Multicast IGMP), UPnP, DNS, DHCP, RTP, RTSP, NTP, IPv4, IPv6, SNMP v2c/v3, QoS, HTTP, HTTPS, LDAP (client), SSH, SSL, SMTP, FTP, ARP, ICMP, and 802.1x (EAP)*	*TCP/IP, UDP/IP (Unicast, Multicast IGMP), UPnP, DNS, DHCP, RTP, RTSP, NTP, IPv4, IPv6, SNMP v2c/v3, QoS, HTTP, HTTPS, LDAP (client), SSH, SSL, SMTP, FTP, ARP, ICMP, and 802.1x (EAP)*	*TCP/IP, UDP/IP (Unicast, Multicast IGMP), UPnP, DNS, DHCP, RTP, RTSP, NTP, IPv4, IPv6, SNMP v2c/v3, QoS, HTTP, HTTPS, LDAP (client), SSH, SSL, SMTP, FTP, ARP, ICMP, and 802.1x (EAP)*
Power input	PoE (IEEE 802.3af, Class 3)	PoE (IEEE 802.3af, Class 3)	PoE (IEEE 802.3af, Class 3)	PoE (IEEE 802.3af, Class 3)	PoE (IEEE 802.3af, Class 3)
Pelco system compatibility	Endura 2.0 (or later); Digital Sentry 7.3 (or later); DX4700/ DX4800; Pelco Mobile Application	Endura 2.0 (or later); Digital Sentry 7.3 (or later); DX4700/ DX4800; Pelco Mobile Application	Endura 2.0 (or later); Digital Sentry 7.3 (or later); DX4700/ DX4800; Pelco Mobile Application	Endura 2.0 (or later); Digital Sentry 7.3 (or later); DX4700/ DX4800; Pelco Mobile Application	Endura 2.0 (or later); Digital Sentry 7.3 (or later); DX4700/ DX4800; Pelco Mobile Application
Open connectivity	Pelco API or ONVIF Profile S	Pelco API or ONVIF Profile S	Pelco API or ONVIF Profile S	Pelco API or ONVIF Profile S	Pelco API or ONVIF Profile S


* Add suffix to specify mount - I for in-ceiling mount, S for surface mount, P for pendant mount
 ***6 additional behaviors available mid-2014 +in line with evolving industry standard by mid-2014



Sarix IMP Series Indoor Mini Domes					
	 IMPS110-1x*	 IMP1110-1x*	 IMP219-1x*	 IMP319-1x*	 IMP519-1x*
Max resolution	800x600	1280x720	1920x1080	2048x1536	2592x1944
Image sensor	1/4-inch CMOS	1/4-inch CMOS	1/3-inch CMOS	1/3-inch CMOS	1/3.2-inch CMOS
Lens	2.8-10 mm, varifocal	2.8-10 mm, varifocal	3-9 mm, varifocal	3-9 mm, varifocal	3-9 mm, varifocal
Focus/zoom	Auto focus, remote zoom	Auto focus, remote zoom	Auto focus, remote zoom	Auto focus, remote zoom	Auto focus, remote zoom
Day/night	Yes	Yes	Yes	Yes	Yes
Wide Dynamic range	65 dB	65 dB	65 dB	65 dB	65 dB
Illumination	0.03 lux @ f/1.4	0.03 lux @ f/1.4	0.03 lux @ f/1.2	0.03 lux @ f/1.2	0.03 lux @ f/1.2
Video compression	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG
Max IPS at max resolution	30 ips	30 ips	30 ips	20 ips	12 ips
Video streams	2 configurable streams	2 configurable streams	2 configurable streams	2 configurable streams	2 configurable streams
Audio	Line-in	Line-in	Line-in	Line-in	Line-in
Alarm in/out	1, In/Out	1, In/Out	1, In/Out	1, In/Out	1, In/Out
Analytics	Simple Motion Detection/ Camera Sabotage	Simple Motion Detection/ Camera Sabotage	Simple Motion Detection/ Camera Sabotage	Simple Motion Detection/ Camera Sabotage	Simple Motion Detection/ Camera Sabotage
Local storage	Up to 32GB with microSDHC+	Up to 32GB with microSDHC+	Up to 32GB with microSDHC+	Up to 32GB with microSDHC+	Up to 32GB with microSDHC+
Network protocols	*TCP/IP, UDP, ICMP, IPv4, SNMP v2c/v3, HTTP, HTTPS, SSL, SSH, SMTP, FTP, RTSP, UPnP, DNS, NTP, RTP, RTCP*	*TCP/IP, UDP, ICMP, IPv4, SNMP v2c/v3, HTTP, HTTPS, SSL, SSH, SMTP, FTP, RTSP, UPnP, DNS, NTP, RTP, RTCP*	*TCP/IP, UDP, ICMP, IPv4, SNMP v2c/v3, HTTP, HTTPS, SSL, SSH, SMTP, FTP, RTSP, UPnP, DNS, NTP, RTP, RTCP*	*TCP/IP, UDP, ICMP, IPv4, SNMP v2c/v3, HTTP, HTTPS, SSL, SSH, SMTP, FTP, RTSP, UPnP, DNS, NTP, RTP, RTCP*	*TCP/IP, UDP, ICMP, IPv4, SNMP v2c/v3, HTTP, HTTPS, SSL, SSH, SMTP, FTP, RTSP, UPnP, DNS, NTP, RTP, RTCP*
Power input	PoE (IEEE 802.3af, Class 2), 24 VAC	PoE (IEEE 802.3af, Class 2), 24 VAC	PoE (IEEE 802.3af, Class 2), 24 VAC	PoE (IEEE 802.3af, Class 2), 24 VAC	PoE (IEEE 802.3af, Class 2), 24 VAC
Pelco system compatibility	Digital Sentry 7.3 (or later); Endura 2.0 (or later); Pelco Mobile Application	Digital Sentry 7.3 (or later); Endura 2.0 (or later); Pelco Mobile Application	Digital Sentry 7.3 (or later); Endura 2.0 (or later); Pelco Mobile Application	Digital Sentry 7.3 (or later); Endura 2.0 (or later); Pelco Mobile Application	Digital Sentry 7.3 (or later); Endura 2.0 (or later); Pelco Mobile Application
Open connectivity	Pelco API or ONVIF Profile S	Pelco API or ONVIF Profile S	Pelco API or ONVIF Profile S	Pelco API or ONVIF Profile S	Pelco API or ONVIF Profile S

* Add suffix to specify mount — I for in-ceiling mount, S for surface mount, P for pendant mount +in line with evolving industry standard by year end 2014

Network Indoor Dome Cameras

The new Sarix IL Series micro dome cameras are high-definition, cost-effective IP network cameras perfect for most any indoor fixed video security application. The Sarix ID Series features remarkably easy one-handed installation and innovative auto back focus.

Sarix ID Series	
	
IDE20DN8-1	
Resolution	1920x1080
Image sensor	1/3-inch CMOS
Lens	CS Mount 2.8-8 mm
Focus	Auto Back Focus
Day/night	Yes
Wide dynamic range	N/A
Illumination	0.03 lux @ f1.2
Video compression	H.264, MJPEG
Max IPS at max resolution	30 ips
Audio	Accessory AUD-1
Alarm in/out	1 in/out, multiple alarms with ALM-1 accessory
Analytics	Pelco Analytics
Network protocols	TCP/IP, UDP/IP (unicast, multi-cast IGMP), UPnP, DNS, DHCP, RTP, RTSP, NTP, IPv4, SNMP v2c/v3, QoS, HTTP, HTTPS, LDAP (client), SSH, SSL, SMTP, FTP, and 802.1x(EAP)
AC power	24 Vac
PoE	Class 3
Video service jack	Yes
Vandal resistant	N/A
Pelco system compatibility	Endura 2.0 (or later); Digital Sentry 4.3 (or later); DX4700/4800 v1.0 (or later)
Open connectivity	Pelco API and ONVIF v1.02 for connecting to 3rd-party systems


Sarix IL Series Micro Dome Cameras		
		
IL10-DP		
		
IL10-DA		
Resolution	1280x720	1280x720
Image sensor	1/6.9-inch CMOS	1/6.9-inch CMOS
Lens	Fixed - 68 deg diagonal fov	Fixed - 68 deg diagonal fov
Focus	Fixed	Fixed
Day/night	Color only	Color only
Illumination	0.5 lux @ f2.0	0.5 lux @ f2.0
Video compression	H.264	H.264
Max IPS at max resolution	30 ips	30 ips
Video streams	Up to 2	up to 2
Audio	None	None
Alarm in/out	None	None
Motion detection	3 zones + background zone	3 zones + background zone
Network protocols	HTTP, RTP, RTSP, NTP, IPv4, RTCP, UPnP, SSH, SSL	HTTP, RTP, RTSP, NTP, IPv4, RTCP, UPnP, SSH, SSL
Power input	PoE class 1	24 Vac
Compact size	1.5 inch (3.9 mm) dia bubble	1.5 inch (3.9 mm) dia bubble
Pelco system compatibility	Endura 2.0 (or later); Digital Sentry 7.3 (or later); DX4700/DX4800	Endura 2.0 (or later); Digital Sentry 7.3 (or later); DX4700/DX4800



Network Indoor Box Cameras

Designed for performance, premium experience, and mission-critical applications, the Sarix™ Enhanced Range with SureVision™ 2.0 delivers industry-leading image quality in the most difficult lighting conditions. The new Sarix Value Series mini box cameras are high-definition, cost-effective IP network cameras perfect for most any indoor fixed video security application.

Sarix IXE Series Box Cameras with SureVision 2.0

	 IXES1	 IXEI1	 IXEE1	 IXES3
Max resolution	800x600	1280x1024	1920x1080	2048x1536
Image sensor	1/3-inch CMOS	1/3-inch CMOS	1/3-inch CMOS	1/3-inch CMOS
Lens	CS mount	CS Mount	CS Mount	CS Mount
Focus	Auto back focus	Auto Back Focus	Auto Back Focus	Auto Back Focus
Day/night	Yes	Yes	Yes	Yes
Wide dynamic range	100 dB	100 dB	100 dB	100 dB
Illumination	0.0013 lux @ f/1.2	0.0013 lux @ f/1.2	0.0013 lux @ f/1.2	0.0013 lux @ f/1.2
Video Compression	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG
Max IPS at max resolution	30 ips	30 ips	30 ips	30 ips
Video streams	2 configurable streams	2 configurable streams	2 configurable streams	2 configurable streams
Audio	Bidirectional, built in Mic	Bidirectional, built in Mic	Bidirectional, built in Mic	Bidirectional, built in Mic
Alarm in/out	Yes, Multiple alarms with ALM-1 accessory	Yes, Multiple alarms with ALM-1 accessory	Yes, Multiple alarms with ALM-1 accessory	Yes, Multiple alarms with ALM-1 accessory
Analytics	Adaptive Motion/Camera Sabotage***	Adaptive Motion/Camera Sabotage***	Adaptive Motion/Camera Sabotage***	Adaptive Motion/Camera Sabotage***
Local Storage	Up to 32GB with microSDHC+	Up to 32GB with microSDHC+	Up to 32GB with microSDHC+	Up to 32GB with microSDHC+
Network protocols	TCP/IP, UDP/IP (Unicast, Multicast IGMP), UPnP, DNS, DHCP, RTP, RTSP, NTP, IPv4, IPv6, SNMP v2c/v3, QoS, HTTP, HTTPS, LDAP (client), SSH, SSL, SMTP, FTP, ARP, ICMP, and 802.1x (EAP)	TCP/IP, UDP/IP (Unicast, Multicast IGMP), UPnP, DNS, DHCP, RTP, RTSP, NTP, IPv4, IPv6, SNMP v2c/v3, QoS, HTTP, HTTPS, LDAP (client), SSH, SSL, SMTP, FTP, ARP, ICMP, and 802.1x (EAP)	TCP/IP, UDP/IP (Unicast, Multicast IGMP), UPnP, DNS, DHCP, RTP, RTSP, NTP, IPv4, IPv6, SNMP v2c/v3, QoS, HTTP, HTTPS, LDAP (client), SSH, SSL, SMTP, FTP, ARP, ICMP, and 802.1x (EAP)	TCP/IP, UDP/IP (Unicast, Multicast IGMP), UPnP, DNS, DHCP, RTP, RTSP, NTP, IPv4, IPv6, SNMP v2c/v3, QoS, HTTP, HTTPS, LDAP (client), SSH, SSL, SMTP, FTP, ARP, ICMP, and 802.1x (EAP)
Power input	PoE (IEEE 802.3af, Class 3)	PoE (IEEE 802.3af, Class 3)	PoE (IEEE 802.3af, Class 3)	PoE (IEEE 802.3af, Class 3)
Pelco system compatibility	Endura 2.0 (or later); Digital Sentry 7.3 (or later); DX4700/DX4800; Pelco Mobile Application	Endura 2.0 (or later); Digital Sentry 7.3 (or later); DX4700/DX4800; Pelco Mobile Application	Endura 2.0 (or later); Digital Sentry 7.3 (or later); DX4700/DX4800; Pelco Mobile Application	Endura 2.0 (or later); Digital Sentry 7.3 (or later); DX4700/DX4800; Pelco Mobile Application
Open connectivity	Pelco API or ONVIF Profile S	Pelco API or ONVIF Profile S	Pelco API or ONVIF Profile S	Pelco API or ONVIF Profile S

***6 additional behaviors available mid-2014 *in line with evolving industry standard by mid-2014






Sarix IL Series Box Cameras

	 IL10-BP	 IL10-BA
Resolution	1280x720	1280x720
Image sensor	1/6.9-inch CMOS	1/6.9-inch CMOS
Lens	Fixed - 68 deg diagonal fov	Fixed - 68 deg diagonal fov
Focus	Fixed	Fixed
Day/night	Color only	Color only
Illumination	0.5 lux @ f2.0	0.5 lux @ f2.0
Video compression	H.264	H.264
Max IPS at max resolution	30 ips	30 ips
Video streams	up to 2	Up to 2
Audio	None	None
Alarm in/out	None	None
Motion detection	3 zones + background zone	3 zones + background zone
Network protocols	HTTP, RTP, RTSP, NTP, IPv4, RTCP, UPnP, SSH, SSL	HTTP, RTP, RTSP, NTP, IPv4, RTCP, UPnP, SSH, SSL
Power input	PoE class 1	24 Vac
Compact size	4.3" (10.9 mm) long	4.3" (10.9 mm) long
Pelco system compatibility	Endura 2.0 (or later); Digital Sentry 7.3 (or later); DX4700/DX4800	Endura 2.0 (or later); Digital Sentry 7.3 (or later); DX4700/DX4800



SureVision 2.0 simultaneously combines advanced low-light capability, true wide dynamic range (WDR), and anti-bloom technology for clear, detailed images. New advancements include 3D noise filtering, smooth response to illumination changes, and improved tone mapping to retain color accuracy and overall image contrast, ensuring the best possible image when a single scene contains bright areas, shaded areas, and intense light.

Network Indoor Box Cameras

Sarix utilizes a groundbreaking technology platform built upon the three pillars of innovative imaging: science, sophisticated industrial design, and advanced processing power. Available across a complete family of fixed box and dome cameras, Sarix technology maximizes the benefits of megapixel performance with industry-leading features and capabilities.




Sarix IXP Series Indoor Box Cameras					
	 IXPS1	 IXP11	 IXP21	 IXP31	 IXP51
Max resolution	800x600	1280x720	1920x1080	2048x1536	2592x1944
Image sensor	1/4-inch CMOS	1/4-inch CMOS	1/3-inch CMOS	1/3-inch CMOS	1/3.2-inch CMOS
Lens	CS mount	CS mount	CS mount	CS mount	CS mount
Focus	Auto back focus	Auto back focus	Auto back focus	Auto back focus	Auto back focus
Day/night	Yes	Yes	Yes	Yes	Yes
Dynamic range	65 dB	65 dB	65 dB	65 dB	65 dB
Illumination	0.03 lux @ f/1.4	0.03 lux @ f/1.4	0.03 lux @ f/1.2	0.03 lux @ f/1.2	0.03 lux @ f/1.2
Video compression	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG
Max IPS at max resolution	30 ips	30 ips	30 ips	20 ips	12 ips
Video streams	2 configurable streams	2 configurable streams	2 configurable streams	2 configurable streams	2 configurable streams
Audio	Line-in	Line-in	Line-in	Line-in	Line-in
Alarm in/out	1, In/Out	1, In/Out	1, In/Out	1, In/Out	1, In/Out
Analytics	Simple Motion Detection/ Camera Sabotage	Simple Motion Detection/ Camera Sabotage	Simple Motion Detection/ Camera Sabotage	Simple Motion Detection/ Camera Sabotage	Simple Motion Detection/ Camera Sabotage
Local storage	Up to 32GB with microSDHC+	Up to 32GB with microSDHC+	Up to 32GB with microSDHC+	Up to 32GB with microSDHC+	Up to 32GB with microSDHC+
Network protocols	TCP/IP, UDP, ICMP, IPv4, SNMP v2c/v3, HTTP, HTTPS, SSL, SSH, SMTP, FTP, RTSP, UPnP, DNS, NTP, RTP, RTCP	TCP/IP, UDP, ICMP, IPv4, SNMP v2c/v3, HTTP, HTTPS, SSL, SSH, SMTP, FTP, RTSP, UPnP, DNS, NTP, RTP, RTCP	TCP/IP, UDP, ICMP, IPv4, SNMP v2c/v3, HTTP, HTTPS, SSL, SSH, SMTP, FTP, RTSP, UPnP, DNS, NTP, RTP, RTCP	TCP/IP, UDP, ICMP, IPv4, SNMP v2c/v3, HTTP, HTTPS, SSL, SSH, SMTP, FTP, RTSP, UPnP, DNS, NTP, RTP, RTCP	TCP/IP, UDP, ICMP, IPv4, SNMP v2c/v3, HTTP, HTTPS, SSL, SSH, SMTP, FTP, RTSP, UPnP, DNS, NTP, RTP, RTCP
Power input	PoE (IEEE 802.3af, Class 2), 24 VAC	PoE (IEEE 802.3af, Class 2), 24 VAC	PoE (IEEE 802.3af, Class 2), 24 VAC	PoE (IEEE 802.3af, Class 2), 24 VAC	PoE (IEEE 802.3af, Class 2), 24 VAC
Pelco system compatibility	Digital Sentry 7.3 (or later); Endura 2.0 (or later); Pelco Mobile Application	Digital Sentry 7.3 (or later); Endura 2.0 (or later); Pelco Mobile Application	Digital Sentry 7.3 (or later); Endura 2.0 (or later); Pelco Mobile Application	Digital Sentry 7.3 (or later); Endura 2.0 (or later); Pelco Mobile Application	Digital Sentry 7.3 (or later); Endura 2.0 (or later); Pelco Mobile Application
Open connectivity	Pelco API or ONVIF Profile S	Pelco API or ONVIF Profile S	Pelco API or ONVIF Profile S	Pelco API or ONVIF Profile S	Pelco API or ONVIF Profile S

+ In line with evolving industry standard by year end 2014

	Sarix IX Series  IXE20DN	Sarix IX Series with SureVision  IXE10LW
Resolution	1920x1080	1280x960
Image sensor	1/3-inch CMOS	1/3-inch CMOS
Lens	CS mount	CS mount
Focus	Auto back focus	Auto back focus
Day/night	Yes	Yes
Wide dynamic range	60 dB	120 dB
Illumination	0.03 lux @f1.2	.0013 @ f1.2
Video compression	H.264, MJPEG	H.264, MJPEG
Max IPS at max resolution	30 ips	30 ips
Audio	Accessory AUD-1	Accessory AUD-1
Alarm in/out	1 in/out, Multiple alarms with ALM-1 accessory	1 in/out, Multiple alarms with ALM-1 accessory
Analytics	Pelco Analytics	Pelco Analytics
Network 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)	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)
AC power	24 Vac	24 Vac
PoE	Class 3	Class 3
Video service jack	Yes	Yes
Pelco system compatibility	Endura 2.0 (or later); Digital Sentry 4.3 (or later); DX4700/4800 v1.0 (or later)	Endura 2.0 (or later); Digital Sentry 4.3 (or later); DX4700/4800 v1.0 (or later)
Open connectivity	Pelco API and ONVIF v1.02 for connecting to 3rd-party systems	Pelco API and ONVIF v1.02 for connecting to 3rd-party systems

Network Environmental Bullet Camera

The Sarix Professional Range rounds out the Sarix family by offering Pelco's first IP environmental bullet camera and our first IP environmental mini dome with IR camera. Available with up to 5 MPx resolution, they capture up to 30 images per second (ips) at 1080p. All Sarix Professional cameras integrate with major third-party video management systems through the Pelco API and the open ONVIF Profile S standard.

Sarix IBP Series Environmental Bullets with IR					
					
	IBPS110-ER	IBP1110-ER	IBP219-ER	IBP319-ER	IBP519-ER
Max resolution	800x600	1280x720	1920x1080	2048x1536	2592x1944
Image sensor	1/4-inch CMOS	1/4-inch CMOS	1/3-inch CMOS	1/3-inch CMOS	1/3.2-inch CMOS
Lens	2.8-10 mm, varifocal	2.8-10 mm, varifocal	3-9 mm, varifocal	3-9 mm, varifocal	3-9 mm, varifocal
Focus/zoom	Auto focus, remote zoom	Auto focus, remote zoom	Auto focus, remote zoom	Auto focus, remote zoom	Auto focus, remote zoom
Day/night	Yes	Yes	Yes	Yes	Yes
Dynamic range	65 dB	65 dB	65 dB	65 dB	65 dB
Illumination	0.03 lux @ f/1.4	0.03 lux @ f/1.4	0.03 lux @ f/1.2	0.03 lux @ f/1.2	0.03 lux @ f/1.2
Video compression	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG
Max IPS at max resolution	30 ips	30 ips	30 ips	20 ips	12 ips
IR illumination	Yes, adaptive IR	Yes, adaptive IR	Yes, adaptive IR	Yes, adaptive IR	Yes, adaptive IR
Video streams	2 configurable streams	2 configurable streams	2 configurable streams	2 configurable streams	2 configurable streams
Audio	Line-in	Line-in	Line-in	Line-in	Line-in
Alarm in/out	1, In/Out	1, In/Out	1, In/Out	1, In/Out	1, In/Out
Analytics	Simple Motion Detection/ Camera Sabotage	Simple Motion Detection/ Camera Sabotage	Simple Motion Detection/ Camera Sabotage	Simple Motion Detection/ Camera Sabotage	Simple Motion Detection/ Camera Sabotage
Local storage	Up to 32GB with microSDHC+	Up to 32GB with microSDHC+	Up to 32GB with microSDHC+	Up to 32GB with microSDHC+	Up to 32GB with microSDHC+
Network protocols	TCP/IP, UDP, ICMP, IPv4, SNMP v2c/v3, HTTP, HTTPS, SSL, SSH, SMTP, FTP, RTSP, UPnP, DNS, NTP, RTP, RTCP	TCP/IP, UDP, ICMP, IPv4, SNMP v2c/v3, HTTP, HTTPS, SSL, SSH, SMTP, FTP, RTSP, UPnP, DNS, NTP, RTP, RTCP	TCP/IP, UDP, ICMP, IPv4, SNMP v2c/v3, HTTP, HTTPS, SSL, SSH, SMTP, FTP, RTSP, UPnP, DNS, NTP, RTP, RTCP	TCP/IP, UDP, ICMP, IPv4, SNMP v2c/v3, HTTP, HTTPS, SSL, SSH, SMTP, FTP, RTSP, UPnP, DNS, NTP, RTP, RTCP	TCP/IP, UDP, ICMP, IPv4, SNMP v2c/v3, HTTP, HTTPS, SSL, SSH, SMTP, FTP, RTSP, UPnP, DNS, NTP, RTP, RTCP
Power input	PoE (IEEE 802.3af, Class 3), 24 VAC	PoE (IEEE 802.3af, Class 3), 24 VAC	PoE (IEEE 802.3af, Class 3), 24 VAC	PoE (IEEE 802.3af, Class 3), 24 VAC	PoE (IEEE 802.3af, Class 3), 24 VAC
Pelco system compatibility	Digital Sentry 7.3 (or later); Endura 2.0 (or later); Pelco Mobile Application	Digital Sentry 7.3 (or later); Endura 2.0 (or later); Pelco Mobile Application	Digital Sentry 7.3 (or later); Endura 2.0 (or later); Pelco Mobile Application	Digital Sentry 7.3 (or later); Endura 2.0 (or later); Pelco Mobile Application	Digital Sentry 7.3 (or later); Endura 2.0 (or later); Pelco Mobile Application
Open connectivity	Pelco API or ONVIF Profile S	Pelco API or ONVIF Profile S	Pelco API or ONVIF Profile S	Pelco API or ONVIF Profile S	Pelco API or ONVIF Profile S

+In line with evolving industry standard by year end 2014






With thousands of IP camera options to choose from, there's a Pelco by Schneider Electric IP camera suitable for every lighting condition, environment, and application imaginable. From fixed, entry-level cameras, to high-performance extreme environment pan/tilt/zoom (PTZ) systems, to thermal imaging, Pelco IP cameras allow you to capture important video data with confidence.



Network Environmental / Vandal-Resistant Dome Cameras

Designed for performance, premium experience, and mission-critical applications, the Sarix™ Enhanced Range with SureVision™ 2.0 delivers industry-leading image quality in the most difficult lighting conditions. Built to exacting standards and fully certified and rated for flawless outdoor performance, the Sarix® IME Series Environmental Domes with SureVision 2.0 cameras are intended for rain, snow, and the most grueling desert heat.






Sarix IME Environmental / Vandal Mini Domes with Surevision 2.0

	 SureVision™ 2.0 AP 1 "by Sarix" Effect "techn 1" IMES19-1x*	 SureVision™ 2.0 AP 1 "by Sarix" Effect "technology" IME119-1x*	 SureVision™ 2.0 AP 1 "by Sarix" Effect "techn 1" IME219-1x*	 SureVision™ 2.0 AP 1 "by Sarix" Effect "techn 1" IME319-1x*, IME319-B1x*	 SureVision™ 2.0 AP 1 "by Sarix" Effect "techn 1" IME3122-1x*, IME3122-B1x*
Max resolution	800x600	1280x1024	1920x1080	2048x1536	2048x1536
Image sensor	1/3-inch CMOS	1/3-inch CMOS	1/3-inch CMOS	1/3-inch CMOS	1/3-inch CMOS
Lens	3-9 mm, varifocal	3-9 mm, varifocal	3-9 mm, varifocal	3-9 mm, varifocal	9-22 mm, varifocal
Focus/zoom	Auto focus, remote zoom	Auto focus, remote zoom	Auto focus, remote zoom	Auto focus, remote zoom	Auto focus, remote zoom
Day/night	Yes	Yes	Yes	Yes	Yes
Wide dynamic range	100 dB	100 dB	100 dB	100 dB	100 dB
Illumination	0.0013 lux @ f/1.2	0.0013 lux @ f/1.2	0.0013 lux @ f/1.2	0.0013 lux @ f/1.2	0.002 lux @ f/1.6
Video compression	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG
Max IPS at max resolution	30 ips	30 ips	30 ips	30 ips	30 ips
Video streams	2 configurable streams	2 configurable streams	2 configurable streams	2 configurable streams	2 configurable streams
Audio	Bidirectional	Bidirectional	Bidirectional	Bidirectional	Bidirectional
Alarm in/out	Yes, multiple alarms with ALM-1 accessory	Yes, multiple alarms with ALM-1 accessory	Yes, multiple alarms with ALM-1 accessory	Yes, multiple alarms with ALM-1 accessory	Yes, multiple alarms with ALM-1 accessory
Analytics	Adaptive motion/camera sabotage ***	Adaptive motion/camera sabotage ***	Adaptive motion/camera sabotage ***	Adaptive motion/camera sabotage ***	Adaptive motion/camera sabotage ***
Local storage	Up to 32 GB with microSDHC +	Up to 32 GB with microSDHC +	Up to 32 GB with microSDHC +	Up to 32 GB with microSDHC +	Up to 32 GB with microSDHC +
Network protocols	TCP/IP, UDP/IP (unicast, multicast IGMP), UPnP, DNS, DHCP, RTP, RTSP, NTP, IPv4, IPv6, SNMP v2c/v3, QoS, HTTP, HTTPS, LDAP (client), SSH, SSL, SMTP, FTP, ARP, ICMP, and 802.1x (EAP)	TCP/IP, UDP/IP (unicast, multicast IGMP), UPnP, DNS, DHCP, RTP, RTSP, NTP, IPv4, IPv6, SNMP v2c/v3, QoS, HTTP, HTTPS, LDAP (client), SSH, SSL, SMTP, FTP, ARP, ICMP, and 802.1x (EAP)	TCP/IP, UDP/IP (unicast, multicast IGMP), UPnP, DNS, DHCP, RTP, RTSP, NTP, IPv4, IPv6, SNMP v2c/v3, QoS, HTTP, HTTPS, LDAP (client), SSH, SSL, SMTP, FTP, ARP, ICMP, and 802.1x (EAP)	TCP/IP, UDP/IP (unicast, multicast IGMP), UPnP, DNS, DHCP, RTP, RTSP, NTP, IPv4, IPv6, SNMP v2c/v3, QoS, HTTP, HTTPS, LDAP (client), SSH, SSL, SMTP, FTP, ARP, ICMP, and 802.1x (EAP)	TCP/IP, UDP/IP (unicast, multicast IGMP), UPnP, DNS, DHCP, RTP, RTSP, NTP, IPv4, IPv6, SNMP v2c/v3, QoS, HTTP, HTTPS, LDAP (client), SSH, SSL, SMTP, FTP, ARP, ICMP, and 802.1x (EAP)
Power input	PoE (IEEE 802.3af, Class 3)	PoE (IEEE 802.3af, Class 3)	PoE (IEEE 802.3af, Class 3)	PoE (IEEE 802.3af, Class 3)	PoE (IEEE 802.3af, Class 3)
Pelco system compatibility	Endura 2.0 (or later); Digital Sentry 7.3 (or later); DX4700/DX4800 Pelco Mobile Application	Endura 2.0 (or later); Digital Sentry 7.3 (or later); DX4700/DX4800 Pelco Mobile Application	Endura 2.0 (or later); Digital Sentry 7.3 (or later); DX4700/DX4800 Pelco Mobile Application	Endura 2.0 (or later); Digital Sentry 7.3 (or later); DX4700/DX4800 Pelco Mobile Application	Endura 2.0 (or later); Digital Sentry 7.3 (or later); DX4700/DX4800 Pelco Mobile Application
Open connectivity	Pelco API or ONVIF Profile S	Pelco API or ONVIF Profile S	Pelco API or ONVIF Profile S	Pelco API or ONVIF Profile S	Pelco API or ONVIF Profile S

***6 additional behaviors available mid-2014 +in line with evolving industry standard by year end 2014






Network Environmental / Vandal-Resistant Dome Cameras

The Sarix Professional Range cameras are powerful and versatile to maximize options for customers in a variety of markets, and are ideal for those looking for reliable, cost-effective solutions that meet the breadth of their mainstream video surveillance needs. Mix and match the performance options and form factor you need for almost any lighting condition, environment, and application.

Sarix IMP Series Environmental Mini Domes					
	 IMP110-1Ex*	 IMP1110-1Ex*	 IMP219-1Ex*	 IMP319-1Ex*	 IMP519-1Ex*
Max resolution	800x600	1280x720	1920x1080	2048x1536	2592x1944
Image sensor	1/4-inch CMOS	1/4-inch CMOS	1/3-inch CMOS	1/3-inch CMOS	1/3.2-inch CMOS
Lens	2.8-10 mm, varifocal	2.8-10 mm, varifocal	3-9 mm, varifocal	3-9 mm, varifocal	3-9 mm, varifocal
Focus/zoom	Auto Focus, Remote Zoom	Auto Focus, Remote Zoom	Auto Focus, Remote Zoom	Auto Focus, Remote Zoom	Auto Focus, Remote Zoom
Day/night	Yes	Yes	Yes	Yes	Yes
Dynamic range	65 dB	65 dB	65 dB	65 dB	65 dB
Illumination	0.03 lux @ f/1.4	0.03 lux @ f/1.4	0.03 lux @ f/1.2	0.03 lux @ f/1.2	0.03 lux @ f/1.2
Video compression	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG
Max IPS at max resolution	30 ips	30 ips	30 ips	20 ips	12 ips
Video streams	2 configurable streams	2 configurable streams	2 configurable streams	2 configurable streams	2 configurable streams
Audio	Line-in	Line-in	Line-in	Line-in	Line-in
Alarm in/out	1, In/Out	1, In/Out	1, In/Out	1, In/Out	1, In/Out
Analytics	Simple Motion Detection/ Camera Sabotage	Simple Motion Detection/ Camera Sabotage	Simple Motion Detection/ Camera Sabotage	Simple Motion Detection/ Camera Sabotage	Simple Motion Detection/ Camera Sabotage
Local storage	Up to 32GB with microSDHC+	Up to 32GB with microSDHC+	Up to 32GB with microSDHC+	Up to 32GB with microSDHC+	Up to 32GB with microSDHC+
Network protocols	TCP/IP, UDP, ICMP, IPv4, SNMP v2c/v3, HTTP, HTTPS, SSL, SSH, SMTP, FTP, RTSP, UPnP, DNS, NTP, RTP, RTCP	TCP/IP, UDP, ICMP, IPv4, SNMP v2c/v3, HTTP, HTTPS, SSL, SSH, SMTP, FTP, RTSP, UPnP, DNS, NTP, RTP, RTCP	TCP/IP, UDP, ICMP, IPv4, SNMP v2c/v3, HTTP, HTTPS, SSL, SSH, SMTP, FTP, RTSP, UPnP, DNS, NTP, RTP, RTCP	TCP/IP, UDP, ICMP, IPv4, SNMP v2c/v3, HTTP, HTTPS, SSL, SSH, SMTP, FTP, RTSP, UPnP, DNS, NTP, RTP, RTCP	TCP/IP, UDP, ICMP, IPv4, SNMP v2c/v3, HTTP, HTTPS, SSL, SSH, SMTP, FTP, RTSP, UPnP, DNS, NTP, RTP, RTCP
Power input	PoE (IEEE 802.3af, Class 2), 24 VAC	PoE (IEEE 802.3af, Class 2), 24 VAC	PoE (IEEE 802.3af, Class 2), 24 VAC	PoE (IEEE 802.3af, Class 2), 24 VAC	PoE (IEEE 802.3af, Class 2), 24 VAC
Pelco system compatibility	Digital Sentry 7.3 (or later); Endura 2.0 (or later); Pelco Mobile Application	Digital Sentry 7.3 (or later); Endura 2.0 (or later); Pelco Mobile Application	Digital Sentry 7.3 (or later); Endura 2.0 (or later); Pelco Mobile Application	Digital Sentry 7.3 (or later); En- dura 2.0 (or later); Pelco Mobile Application	Digital Sentry 7.3 (or later); En- dura 2.0 (or later); Pelco Mobile Application
Open connectivity	Pelco API or ONVIF Profile S	Pelco API or ONVIF Profile S	Pelco API or ONVIF Profile S	Pelco API or ONVIF Profile S	Pelco API or ONVIF Profile S

* Add suffix to specify mount – I for in-ceiling mount, S for surface mount, P for pendant mount

+ In line with evolving industry standard by year end 2014





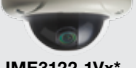
Sarix IMP Series Environmental Mini Domes with IR					
	 IMP110-1ERx*	 IMP1110-1ERx*	 IMP219-1ERx*	 IMP319-1ERx*	 IMP519-1ERx*
Max resolution	800x600	1280x720	1920x1080	2048x1536	2592x1944
Image sensor	1/4-inch CMOS	1/4-inch CMOS	1/3-inch CMOS	1/3-inch CMOS	1/3.2-inch CMOS
Lens	2.8-10 mm, varifocal	2.8-10 mm, varifocal	3-9 mm, varifocal	3-9 mm, varifocal	3-9 mm, varifocal
Focus/zoom	Auto focus, remote zoom	Auto focus, remote zoom	Auto focus, remote zoom	Auto focus, remote zoom	Auto focus, remote zoom
Day/night	Yes	Yes	Yes	Yes	Yes
Dynamic range	65 dB	65 dB	65 dB	65 dB	65 dB
Illumination	0.03 lux @ f/1.4	0.03 lux @ f/1.4	0.03 lux @ f/1.2	0.03 lux @ f/1.2	0.03 lux @ f/1.2
Video compression	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG
Max IPS at max resolution	30 ips	30 ips	30 ips	20 ips	12 ips
IR illumination	Yes, adaptive IR	Yes, adaptive IR	Yes, adaptive IR	Yes, adaptive IR	Yes, adaptive IR
Video streams	2 configurable streams	2 configurable streams	2 configurable streams	2 configurable streams	2 configurable streams
Audio	Line-in	Line-in	Line-in	Line-in	Line-in
Alarm in/out	1, In/Out	1, In/Out	1, In/Out	1, In/Out	1, In/Out
Analytics	Simple Motion Detection/ Camera Sabotage	Simple Motion Detection/ Camera Sabotage	Simple Motion Detection/ Camera Sabotage	Simple Motion Detection/ Camera Sabotage	Simple Motion Detection/ Camera Sabotage
Local storage	Up to 32GB with microSDHC+	Up to 32GB with microSDHC+	Up to 32GB with microSDHC+	Up to 32GB with microSDHC+	Up to 32GB with microSDHC+
Network protocols	TCP/IP, UDP, ICMP, IPv4, SNMP v2c/v3, HTTP, HTTPS, SSL, SSH, SMTP, FTP, RTSP, UPnP, DNS, NTP, RTP, RTCP	TCP/IP, UDP, ICMP, IPv4, SNMP v2c/v3, HTTP, HTTPS, SSL, SSH, SMTP, FTP, RTSP, UPnP, DNS, NTP, RTP, RTCP	TCP/IP, UDP, ICMP, IPv4, SNMP v2c/v3, HTTP, HTTPS, SSL, SSH, SMTP, FTP, RTSP, UPnP, DNS, NTP, RTP, RTCP	TCP/IP, UDP, ICMP, IPv4, SNMP v2c/v3, HTTP, HTTPS, SSL, SSH, SMTP, FTP, RTSP, UPnP, DNS, NTP, RTP, RTCP	TCP/IP, UDP, ICMP, IPv4, SNMP v2c/v3, HTTP, HTTPS, SSL, SSH, SMTP, FTP, RTSP, UPnP, DNS, NTP, RTP, RTCP
Power input	PoE (IEEE 802.3af, Class 3), 24 VAC	PoE (IEEE 802.3af, Class 3), 24 VAC	PoE (IEEE 802.3af, Class 3), 24 VAC	PoE (IEEE 802.3af, Class 3), 24 VAC	PoE (IEEE 802.3af, Class 3), 24 VAC
Pelco system compatibility	Digital Sentry 7.3 (or later); Endura 2.0 (or later); Pelco Mobile Application	Digital Sentry 7.3 (or later); Endura 2.0 (or later); Pelco Mobile Application	Digital Sentry 7.3 (or later); Endura 2.0 (or later); Pelco Mobile Application	Digital Sentry 7.3 (or later); En- dura 2.0 (or later); Pelco Mobile Application	Digital Sentry 7.3 (or later); En- dura 2.0 (or later); Pelco Mobile Application
Open connectivity	Pelco API or ONVIF Profile S	Pelco API or ONVIF Profile S	Pelco API or ONVIF Profile S	Pelco API or ONVIF Profile S	Pelco API or ONVIF Profile S

* Add suffix to specify mount – I for in-ceiling mount, S for surface mount, P for pendant mount


+in line with evolving industry standard by year end 2014

Network Environmental / Vandal-Resistant Dome Cameras

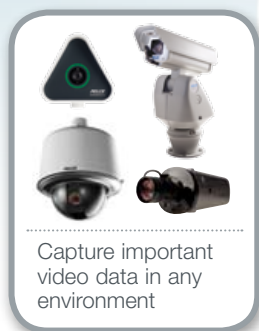
Vandals do not stand a chance against the Sarix IME Series Vandal Resistant Mini Domes featuring SureVision 2.0 technology. These rugged yet affordable fixed mini domes are ideal for corrections facilities, schools, apartment buildings, or any indoor location where video security equipment could be at risk.

Sarix IME Series Vandal Mini Domes with SureVision 2.0					
	 IME19-1Vx*	 IME119-1Vx*	 IME219-1Vx*	 IME319-1Vx*, IME319-B1Vx*	 IME3122-1Vx*, IME3122-B1Vx*
Max resolution	800x600	1280x1024	1920x1080	2048x1536	2048x1536
Image sensor	1/3-inch CMOS	1/3-inch CMOS	1/3-inch CMOS	1/3-inch CMOS	1/3-inch CMOS
Lens	3-9 mm, varifocal	3-9 mm, varifocal	3-9 mm, varifocal	3-9 mm, varifocal	9-22 mm, varifocal
Focus/zoom	Auto focus, remote zoom	Auto focus, remote zoom	Auto focus, remote zoom	Auto focus, remote zoom	Auto focus, remote zoom
Day/night	Yes	Yes	Yes	Yes	Yes
Wide dynamic range	100 dB	100 dB	100 dB	100 dB	100 dB
Illumination	0.0013 lux @ f/1.2	0.0013 lux @ f/1.2	0.0013 lux @ f/1.2	0.0013 lux @ f/1.2	0.002 lux @ f/1.6
Video compression	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG
Max IPS at max resolution	30 ips	30 ips	30 ips	30 ips	30 ips
Video streams	2 configurable streams	2 configurable streams	2 configurable streams	2 configurable streams	2 configurable streams
Audio	Bidirectional, built-in mic	Bidirectional, built-in mic	Bidirectional, built-in mic	Bidirectional, built-in mic	Bidirectional, built-in mic
Alarm in/out	Yes, multiple alarms with ALM-1 accessory	Yes, multiple alarms with ALM-1 accessory	Yes, multiple alarms with ALM-1 accessory	Yes, multiple alarms with ALM-1 accessory	Yes, multiple alarms with ALM-1 accessory
Analytics	Adaptive motion/camera sabotage ***	Adaptive motion/camera sabotage ***	Adaptive motion/camera sabotage ***	Adaptive motion/camera sabotage ***	Adaptive motion/camera sabotage ***
Local storage	Up to 32 GB with microSDHC	Up to 32 GB with microSDHC	Up to 32 GB with microSDHC	Up to 32 GB with microSDHC	Up to 32 GB with microSDHC
Network protocols	TCP/IP, UDP/IP (unicast, multicast IGMP), UPnP, DNS, DHCP, RTP, RTSP, NTP, IPv4, IPv6, SNMP v2c/v3, QoS, HTTP, HTTPS, LDAP (client), SSH, SSL, SMTP, FTP, ARP, ICMP, and 802.1x (EAP)	TCP/IP, UDP/IP (unicast, multicast IGMP), UPnP, DNS, DHCP, RTP, RTSP, NTP, IPv4, IPv6, SNMP v2c/v3, QoS, HTTP, HTTPS, LDAP (client), SSH, SSL, SMTP, FTP, ARP, ICMP, and 802.1x (EAP)	TCP/IP, UDP/IP (unicast, multicast IGMP), UPnP, DNS, DHCP, RTP, RTSP, NTP, IPv4, IPv6, SNMP v2c/v3, QoS, HTTP, HTTPS, LDAP (client), SSH, SSL, SMTP, FTP, ARP, ICMP, and 802.1x (EAP)	TCP/IP, UDP/IP (unicast, multicast IGMP), UPnP, DNS, DHCP, RTP, RTSP, NTP, IPv4, IPv6, SNMP v2c/v3, QoS, HTTP, HTTPS, LDAP (client), SSH, SSL, SMTP, FTP, ARP, ICMP, and 802.1x (EAP)	TCP/IP, UDP/IP (unicast, multicast IGMP), UPnP, DNS, DHCP, RTP, RTSP, NTP, IPv4, IPv6, SNMP v2c/v3, QoS, HTTP, HTTPS, LDAP (client), SSH, SSL, SMTP, FTP, ARP, ICMP, and 802.1x (EAP)
Power input	PoE (IEEE 802.3af, class 3)	PoE (IEEE 802.3af, class 3)	PoE (IEEE 802.3af, class 3)	PoE (IEEE 802.3af, class 3)	PoE (IEEE 802.3af, class 3)
Pelco system compatibility	Endura 2.0 (or later); Digital Sentry 7.3 (or later); DX4700/DX4800, Pelco mobile application	Endura 2.0 (or later); Digital Sentry 7.3 (or later); DX4700/DX4800, Pelco mobile application	Endura 2.0 (or later); Digital Sentry 7.3 (or later); DX4700/DX4800, Pelco mobile application	Endura 2.0 (or later); Digital Sentry 7.3 (or later); DX4700/DX4800, Pelco mobile application	Endura 2.0 (or later); Digital Sentry 7.3 (or later); DX4700/DX4800, Pelco mobile application
Open connectivity	Pelco API or ONVIF Profile S	Pelco API or ONVIF Profile S	Pelco API or ONVIF Profile S	Pelco API or ONVIF Profile S	Pelco API or ONVIF Profile S

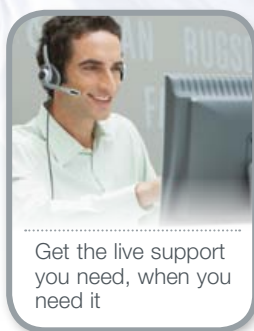
* Add suffix to specify mount – I for in-ceiling mount, S for surface mount, P for pendant mount *** 6 additional behaviors available mid-2014

Sarix IE Series	
	 IEE20DN8-1
Resolution	1920x1080
Image sensor	1/3-inch CMOS
Lens	CS Mount 2.8-8 mm
Focus	Auto back focus
Day/night	Yes
Wide dynamic range	60 dB
Illumination	0.03 lux @ f1.2
Video compression	H.264, MJPEG
Max IPS at max resolution	30 ips
Audio	Line-in/line-out
Alarm in/out	1 in/out, multiple alarms with ALM-1 accessory
Analytics	Pelco & OV analytic suites
Network 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)
AC power	24 Vac
PoE	Class 3
Video service jack	Yes
Outdoor rated	IP66, IK10++ 70J
Pelco system compatibility	Endura 2.0 (or later); Digital Sentry 4.3 (or later); DX4700/4800 v1.0 (or later)
Open connectivity	Pelco API and ONVIF v1.02 for connecting to 3rd-party systems

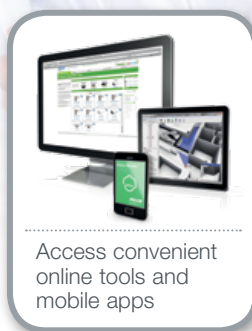
How Can Our Commitment to IP Products and Services Benefit You?



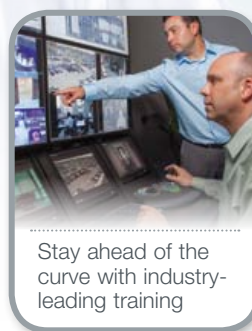
Capture important video data in any environment



Get the live support you need, when you need it



Access convenient online tools and mobile apps



Stay ahead of the curve with industry-leading training



Rely on Pelco IP VMS options for any application

By choosing Pelco by Schneider Electric, you'll have access to an array of services, tools, and programs designed to ensure your success and the confidence that comes from having a broad range of high-quality IP video surveillance products and systems

For more than 20 years, Pelco™ by Schneider Electric™ has been respected as a leading provider of video surveillance products and has now emerged as a leader in the IP market. This evolution has given us the in-depth knowledge to understand what our network-based surveillance end users and resellers require in their products and the important role that service and support systems play in helping them succeed. From guaranteed ship dates and satisfaction assurance to around-the-clock support and flexible service plans, we are committed to adding value to your video surveillance investment.

Powerful solutions for the capture, management, and display of video data:

- > **Actionable, clear evidence:** You can rely on our broad range of IP cameras for mainstream applications to extreme environments.
- > **Easy expansion and installation:** With three flexible platforms to choose from, Pelco video management systems (VMS) are right for any application.
- > **Freedom to choose:** Pelco products are open and built on industry standards that allow them to integrate with other key system components.
- > **Customizable solutions:** As a manufacturer, we can adapt our products to fit your unique applications and special installation needs.






PELCO™

by **Schneider Electric**

Choose with Confidence.

Network PTZ Cameras





With industry-defining features designed and engineered to secure what's most important, the Spectra™ family of high-speed, network-based dome positioning camera systems continues to set the benchmark for performance and reliability.

	Spectra Mini IP	Spectra IV SL	Spectra IV SE		
					
	SD4*	SD423* 23X SL	SD429* 29X SE	SD429-H*	SD429-PSG*
Imager/scanning	1/4-inch interline CCD/ 2:1 interlace	1/4-inch EXview HAD CCD/ 2:1 interlace	1/4-inch EXview HAD CCD/ progressive	1/4-inch EXview HAD CCD/ interlaced/progressive	1/4-inch EXview HAD CCD/ interlaced/progressive
Lens/zoom	f1.8, 4.2 mm - 42 mm/80X zoom (10X optical, 8X digital)	f1.6, 3.6-82.8 mm/276X zoom (23X optical, 12X digital)	f1.4, 3.4-98.1 mm/324X zoom (29X optical, 12X digital)	f1.4, 3.4-98.1 mm/324x zoom (29x optical, 12x digital)	f1.4, 3.4-98.1 mm/324x zoom (29X optical, 12x digital)
Field of view	5.0° to 46.4°	2.5° to 54°	2.3° to 55.8°	2.3° to 55.8°	2.3° to 55.8°
Day/night	No	Yes	Yes	Yes	Yes
Resolution	470 TVL	540 TVL	540 TVL	540 TVL	540 TVL
Digital slow shutter (DSS)	No	No	Yes	Yes	Yes
Sensitivity	3 lux	35 IRE: 0.65 lux at 1/60 sec (color), 0.15 lux at 1/60 sec (B-W)	35 IRE: 0.55 lux at 1/60 sec (color), 0.018 lux at 1/2 sec (color), 0.00018 lux at 1/2 sec (B-W)	35 IRE: 0.55 lux at 1/60 sec (color), 0.018 lux at 1/2 sec (color), 0.00018 lux at 1/2 sec (B-W)	35 IRE: 0.55 lux at 1/60 sec (color), 0.018 lux at 1/2 sec (color), 0.00018 lux at 1/2 sec (B-W)
Wide dynamic range	No	No	Yes	Yes	Yes
Pan/tilt features	360° continuous pan/92° tilt range / mechanical auto flip	360° continuous pan/92° tilt range/mechanical auto flip	360° continuous pan/92° tilt range/mechanical auto flip	360° continuous pan/92° tilt range/mechanical auto flip	360° continuous pan/92° tilt range/mechanical auto flip
Window blanking	1 window blank	Up to four, four-sided, user-defined shapes.	Up to eight, four-sided, user-defined shapes.	Up to eight, four-sided, user-defined shapes.	Up to eight, four-sided, user-defined shapes.
Auto-tracking	No	No	Yes	Yes	Yes
Motion detection	No	No	Yes	Yes	Yes
Image stabilization	No	No	No	Yes	Yes
Compression formats	MPEG-4, M-JPEG	H.264 baseline, MPEG-4, MJPEG	H.264 baseline, MPEG-4, MJPEG	H.264 baseline, MPEG-4, MJPEG	H.264 baseline, MPEG-4, MJPEG
Video resolutions/frame rate	4CIF, CIF/25 or 30 fps at 4CIF maximum, scalable	4CIF, CIF/25 or 30 fps at 4CIF maximum, scalable	4CIF, CIF/25 or 30 fps at 4CIF maximum, scalable	4CIF, CIF/25 or 30 fps at 4CIF maximum, scalable	4CIF, CIF/25 or 30 fps at 4CIF maximum, scalable
Analog data formats	None	Coaxitron, RS-422 (P & D)	Coaxitron, RS-422 (P & D)	Coaxitron, RS-422 (P & D)	Coaxitron, RS-422 (P & D)
Network protocols	TCP/IP, UDP/IP (unicast, multicast IGMP), UPnP, DNS, DHCP, RTP, NTP	TCP/IP, UDP/IP (unicast, multicast IGMP), UPnP, DNS, DHCP, RTP, NTP, IPv4, SNMP, QoS, HTTP, HTTPS, LDAP (client), SSH, SSL, SMTP, FTP, mDNS (Bonjour), 802.1x (EAP)	TCP/IP, UDP/IP (unicast, multicast IGMP), UPnP, DNS, DHCP, RTP, NTP, IPv4, SNMP, QoS, HTTP, HTTPS, LDAP (client), SSH, SSL, SMTP, FTP, mDNS (Bonjour), 802.1x (EAP)	TCP/IP, UDP/IP (unicast, multicast IGMP), UPnP, DNS, DHCP, RTP, NTP, IPv4, SNMP, QoS, HTTP, HTTPS, LDAP (client), SSH, SSL, SMTP, FTP, mDNS (Bonjour), 802.1x (EAP)	TCP/IP, UDP/IP (unicast, multicast IGMP), UPnP, DNS, DHCP, RTP, NTP, IPv4, SNMP, QoS, HTTP, HTTPS, LDAP (client), SSH, SSL, SMTP, FTP, mDNS (Bonjour), 802.1x (EAP)
PoE	IEEE 802.3af class 3	No	No	No	No
Power	18-30 Vac, 24 Vac nominal; 0.75 A, 50/60 Hz nominal	18-32 Vac (24 Vac); 22-27 Vdc (24 Vdc); 23 VA nominal	18-32 Vac (24 Vac); 22-27 Vdc (24 Vdc); 23 VA nominal	18-32 Vac (24 Vac); 22-27 Vdc (24 Vdc); 23 Va nominal	18-32 Vac (24 Vac); 22-27 Vdc (24 Vdc); 23 Va nominal
Certifications	FCC and CE-Class B; UL/cUL listed; C-Tick, CCC	FCC and CE-Class B; UL/cUL listed; C-Tick, CCC	FCC and CE-Class B; UL/cUL listed; C-Tick, CCC	FCC and CE-Class B; UL/cUL listed; C-Tick, CCC	FCC and CE-Class B; UL/cUL listed; C-Tick, CCC

* Visit B.O.S.S.™ 5.0 at pelco.com for complete part numbers. † IP66 rated ‡ vandal resistant

Network PTZ Cameras




With industry-defining features designed and engineered to secure what's most important, the Spectra™ family of high-speed, network-based dome positioning camera systems continues to set the benchmark for performance and reliability.

Spectra IV SE				
	 SD436* 36X SE (Standard or environmental)	 SD436-H* 36x SE heavy duty†‡	 SD436-PSG* 36x SE stainless steel†	 SD4H36* 36x SE horizon†
Imager/scanning	1/4-inch EXview HAD CCD/ interlaced/ progressive	1/4-inch EXview HAD CCD/interlaced/ progressive	1/4-inch EXview HAD CCD/interlaced/ progressive	1/4-inch EXview HAD CCD/interlaced/ progressive
Lens/zoom	f/1.4 (focal length, 3.3 ~ 119 mm) (36X optical, 12X digital)	f1.4, 3.4-119 mm/420X zoom (36X optical, 12X digital)	f1.4, 3.4-119 mm /420X zoom (36X optical, 12X digital)	f1.4, 3.4-119 mm/420X zoom (36X optical, 12X digital)
Field of view	1.7° to 55.8°	1.7° to 55.8°	1.7° to 55.8°	1.7° to 55.8°
Day/night	Yes	Yes	Yes	Yes
Resolution	540 TVL	540 TVL	540 TVL	540 TVL
Digital slow shutter (DSS)	Yes	Yes	Yes	Yes
Sensitivity	35 IRE: 0.55 lux at 1/60 sec (color), 0.018 lux at 1/2 sec (color), 0.00018 lux at 1/2 sec (B-W)	35 IRE: 0.55 lux at 1/60 sec (color), 0.018 lux at 1/2 sec (color), 0.00018 lux at 1/2 sec (B-W)	35 IRE: 0.55 lux at 1/60 sec (color), 0.018 lux at 1/2 sec (color), 0.00018 lux at 1/2 sec (B-W)	35 IRE: 0.55 lux at 1/60 sec (color), 0.018 lux at 1/2 sec (color), 0.00018 lux at 1/2 sec (B-W)
Wide dynamic range	Yes	Yes	Yes	Yes
Pan/tilt features	360° continuous pan/92° tilt range/ mechanical auto flip	360° continuous pan/92° tilt range/ mechanical auto flip	360° continuous pan/92° tilt range/ mechanical auto flip	360° continuous pan/110° tilt range/ mechanical auto flip
Window blanking	Up to eight, four-sided, user-defined shapes.	Up to eight, four-sided, user-defined shapes.	Up to eight, four-sided, user-defined shapes.	Up to eight, four-sided, user-defined shapes.
Auto-tracking	Yes	Yes	Yes	Yes
Motion detection	Yes	Yes	Yes	Yes
Image stabilization	Yes	Yes	Yes	Yes
Image enhancement	Yes	Yes	Yes	Yes
Compression formats	H.264 baseline, MPEG-4, MJPEG	H.264 baseline, MPEG-4, MJPEG	H.264 baseline, MPEG-4, MJPEG	H.264 baseline, MPEG-4, MJPEG
Video resolutions/frame rate	4CIF, CIF/25 or 30 fps at 4CIF maximum, scalable	4CIF, CIF/25 or 30 fps at 4CIF maximum, scalable	4CIF, CIF/25 or 30 fps at 4CIF maximum, scalable	4CIF, CIF/25 or 30 fps at 4CIF maximum, scalable
Network protocols	TCP/IP, UDP/IP (unicast, multicast IGMP), UPnP, DNS, DHCP, RTP, NTP, IPv4, SNMP, QoS, HTTP, HTTPS, LDAP (client), SSH, SSL, SMTP, FTP, mDNS (Bonjour), 802.1x (EAP)	TCP/IP, UDP/IP (unicast, multicast IGMP), UPnP, DNS, DHCP, RTP, NTP, IPv4, SNMP, QoS, HTTP, HTTPS, LDAP (client), SSH, SSL, SMTP, FTP, mDNS (Bonjour), 802.1x (EAP)	TCP/IP, UDP/IP (unicast, multicast IGMP), UPnP, DNS, DHCP, RTP, NTP, IPv4, SNMP, QoS, HTTP, HTTPS, LDAP (client), SSH, SSL, SMTP, FTP, mDNS (Bonjour), 802.1x (EAP)	TCP/IP, UDP/IP (unicast, multicast IGMP), UPnP, DNS, DHCP, RTP, NTP, IPv4, SNMP, QoS, HTTP, HTTPS, LDAP (client), SSH, SSL, SMTP, FTP, mDNS (Bonjour), 802.1x (EAP)
PoE	No	No	No	No
Power	8-32 Vac (24 Vac); 22-27 Vdc (24 Vdc); 23 Va nominal	18-32 Vac (24 Vac); 22-27 Vdc (24 Vdc); 23 Va nominal	18-32 Vac (24 Vac); 22-27 Vdc (24 Vdc); 23 Va nominal	18-32 Vac (24 Vac); 22-27 Vdc (24 Vdc); 23 Va nominal
Certifications	FCC and CE-class B; UL/cUL listed; C-Tick, CCC	FCC and CE-class B; UL/cUL listed; C-Tick, CCC	FCC and CE-class B; UL/cUL listed; C-Tick, CCC	FCC and CE-class B; UL/cUL listed; C-Tick, CCC

* Visit B.O.S.S. 5.0 at pelco.com for complete part numbers. † IP66 rated ‡ vandal resistant

Network HD PTZ Cameras


The most popular positioning system the video security industry has ever known is taking performance to a new level with the introduction of Spectra HD 1080. Incorporating the award-winning Sarix technology platform, Spectra HD 1080 is an all-digital system that delivers 2.0 megapixel resolution (1920x1080 @ 30IPS), built-in analytics 20x or 30x optical zoom, and 360° continuous pan rotation for the precision and control you demand.

	Spectra HD 720	Spectra HD 1080	
			
	S5118* 1.3MP HD (Standard or environmental)	S5220* 2.0MP HD (Standard or environmental)	S5230* 2.0MP HD (Standard or environmental)
Imager/scanning	1/3-inch CCD/progressive	1/2.8-inch type Exmor™ CMOS/progressive	1/2.8-inch type Exmor CMOS/progressive
Lens/zoom	f1.6, 4.7~84.6 mm/18X zoom (optical)	f/1.6 ~ f/3.5, 4.7 mm ~ 94.0 mm / 20X optical zoom; 12X digital zoom	f/1.6 ~ f/4.7, 4.3 mm ~ 129.0 mm / 30X optical zoom; 12X digital zoom
Field of view	3.2° to 55.2°	2.9° ~ 55.4°	2.1° ~ 59.5°
Day/night	Yes	Yes	Yes
Resolution	1280x960	1920x1080	1920x1080
Digital slow shutter (DSS)	Yes	Yes	Yes
Sensitivity	f/1.6, 2850K, SNR>24 dB; color (33 msec) = 1.0 lux; color (250 msec) = 0.125 lux; mono (33 msec) = 0.5 lux; mono (250 msec) = 0.125 lux	Sensitivity in lux for 90% reflectance, f/1.6 (wide-angle), 28 dB gain at 30 IRE (30% of signal level) with sensitivity boost off; 4X improvement to sensitivity with sensitivity boost on.	Sensitivity in lux for 90% reflectance, f/1.6 (wide-angle), 28 dB gain at 30 IRE (30% of signal level) with sensitivity boost off; 4X improvement to sensitivity with sensitivity boost on
Wide dynamic range	Yes, >50 dB with WDR Off, >75 dB with WDR on	80 dB	80 dB
Pan/tilt features	360° continuous pan/92° tilt range/mechanical auto flip	Proportional pan/tilt continually decreases pan/tilt speeds in proportion to depth of zoom	Proportional pan/tilt continually decreases pan/tilt speeds in proportion to depth of zoom
Window blanking	Up to eight, four-sided, user-defined shapes.	Up to 32, four-sided, user-defined shapes.	Up to 32, four-sided, user-defined shapes.
Auto-tracking	Yes	Yes	Yes
Motion detection	Yes	Yes	Yes
Image stabilization	No	No	No
Compression formats	H.264 high profile, MJPEG	H.264 high, main, or base profiles and MJPEG	H.264 high, main, or base profiles and MJPEG
Video resolutions/frame rate	CIF, VGA, SVGA, 1280x720, 1280x960, 640x512, 640x352, 480x368, 480x272, 320x256, 320x176/25 or 30 fps @ 720p, 20 fps @ 960p	CIF, VGA, SVGA, 1920x1080, 1280x720, 800x448, 640x352, 480x272, 320x176/25 or 30 fps @ 1080p	1920x1080, 1280x720, 800x448, 640x352, 480x272, 320x176/25 or 30 fps @ 1080p
Audio	Yes, AUD-1	Yes, AUD-1	Yes, AUD-1
Network protocols	TCP/IP, UDP/IP (unicast, multicast IGMP), UPnP, DNS, DHCP, RTP, NTP, IPv4, SNMP, QoS, HTTP, HTTPS, LDAP (client), SSH, SSL, SMTP, FTP, mDNS (Bonjour), 802.1x (EAP)	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)	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)
PoE	IEEE 802.3af class 3 (standard models)	IEEE 802.3af class 3 (standard models)	IEEE802.3af
Power	18-32 Vac (24 Vac); 22-27 Vdc (24 Vdc); 23 Va nominal	18 to 32 Vac; 24 Vac nominal 22 to 27 Vdc; 24 Vdc nominal	18 to 32 Vac; 24 Vac nominal 22 to 27 Vdc; 24 Vdc nominal
Certifications	FCC and CE-class B; UL/cUL listed; C-Tick, CCC	CE, class A; FCC, class A; UL/cUL listed; C-Tick; ONVIF v1.02	CE, class A; FCC, class A; UL/cUL listed; C-Tick; ONVIF Profile S



* Visit B.O.S.S. 5.0 at pelco.com for complete part numbers. † IP66 rated ‡ vandal resistant

Network Speciality Cameras

The Esprit™ SE IP positioning system brings together the very best in enclosure design, pan-and-tilt mechanics, and receiver technologies. This completely integrated package offers responsive, high-speed positioning capabilities and outstanding weather protection that remains unmatched in the industry. The ideal choice for hazardous location installations, ExSite™ explosion-proof camera systems deliver the high-quality video demanded in the harshest conditions imaginable.

Esprit SE IP	
 <p>36x Esprit SE IP (Standard & pressurized)</p>	
Imager	1/4-inch EXview HAD CCD
Processors	1
Scanning	Interlaced/progressive
Lens/zoom	f/1.4, 3.3 ~ 119 mm / 36X optical; 12X digital
Field Of View	1.7° to 57.2°
Day/night	Yes
Resolution	540 TVL
Digital slow shutter (DSS)	Yes
Sensitivity	35 IRE: 0.55 lux at 1/60 sec (color), 0.018 lux at 1/2 sec (color), 0.00018 lux at 1/2 sec (B-W)
Wide dynamic range	Yes
Proportional pan/tilt	Yes
Pan/tilt features	360° continuous/unobstructed +36° to -85°
Presets/preset speed/patterns	256/100°/sec/8
Motion detection	Yes
Window blanking	8, programmable
Image stabilization	Yes
Image enhancement	Yes
Sure Focus™ menu selection	Yes
Low lux noise reduction	Yes
Programmable zoom speeds	Yes
Low light focus/limit selection	Yes
Power up actions	Yes
Relay outputs	1
Alarm inputs	0
Operating temperature range	-45 to 50 °C (-50 to 122 °F)
Environmental ratings	IP66
Power	24, 120 or 230 Vac, 50/60 Hz; switch selectable for 120/230 Vac inputs
Certifications	CE, class A; FCC, class A; UL/cUL listed; C-Tick; meets NEMA Type 4X
Warranty	3 years
Open connectivity	Pelco API or ONVIF v1.02

Visit B.O.S.S. 5.1 at www.pelco.com for complete part numbers.

ExSite IP		
 <p>36x ExSite IP Explosion-proof fixed</p>  <p>36x ExSite IP Explosion-proof pan/tilt</p>		
Imager	1/4-inch Ex-View HAD CCD	1/4-inch Ex-View HAD CCD
Processors	1	1
Scanning	Interlaced/progressive	Interlaced/progressive
Lens/zoom	f/1.4, 3.3 ~ 119 mm / 432X (36X optical, 12X digital)	f/1.4, 3.3 ~ 119 mm / 432X (36X optical, 12X digital)
Field of view	1.7° to 57.2°	1.7° to 57.2°
Day/night	Yes	Yes
Resolution	540 TVL	540 TVL
Digital slow shutter (DSS)	Yes	Yes
Sensitivity	35 IRE: 0.018 lux at 1/2 sec shutter (color); 0.55 lux at 1/60 sec shutter (B-W); 0.00018 lux at 1/2 sec shutter (B-W)	35 IRE: 0.018 lux at 1/2 sec shutter (color); 0.55 lux at 1/60 sec shutter (B-W); 0.00018 lux at 1/2 sec shutter (B-W)
Wide dynamic range	Yes	Yes
Proportional pan/tilt	Yes	Yes
Pan/tilt features	200° Pan (manual)/180° tilt (manual)	360° continuous/unobstructed +90° to -90°
Presets/preset speed/patterns	80 / N/A / sec / 4	80 / 40° / sec / 4
Motion detection	Yes	Yes
Window blanking	Yes	Yes
Image stabilization	Yes	Yes
Image enhancement	Yes	Yes
Sure Focus™ menu selection	Yes	Yes
Low lux noise reduction	Yes	Yes
Programmable zoom speeds	Yes	Yes
Low light focus/limit selection	Yes	Yes
Power up actions	Yes	Yes
Relay outputs	3	3
Alarm inputs	7	7
Operating temperature range	-76 to 140 °F (-60 to 60 °C)	-76 to 140 °F (-60 to 60 °C)
Environmental ratings	IP66, NEMA Type 4X	IP66, NEMA Type 4X
Power	24 Vac or 100 to 240 Vac, 50/60 Hz	24 Vac or 100 to 240 Vac, 50/60 Hz
Certifications	UL/cUL Listed Class I, Groups A, B, C, and D Class II, Groups E, F, G, T5 Class I, Zone 1, AEx d IIC DEMKO 04 ATEX 0413858X CE 0539 Ex II 2 G Ex d IIC, T5 Gb Ex II 2 D Ex tb IIIC T105°C Db IP66	UL/cUL Listed Class I, Groups A, B, C, and D Class II, Groups E, F, G, T5 Class I, Zone 1, AEx d IIC DEMKO 04 ATEX 0413858X CE 0539 Ex II 2 G Ex d IIC, T5 Gb Ex II 2 D Ex tb IIIC T105°C Db IP66
Warranty	2 years	2 years

Visit B.O.S.S. 5.1 at www.pelco.com for complete part numbers.

Network Thermal Imaging Cameras

The all-digital Sarix TI thermal-imaging camera system represents the evolution of thermal imaging by delivering industry-leading image quality and the performance, features, and ease of integration that security professionals demand. Visit www.pelco.com/sarixti to learn more.

Sarix TI Series Thermal IP Fixed Cameras



TI206
240x184 resolution



TI3 Series
384x288 resolution



TI6 Series
640x480 resolution

Sensor	Sun-safe amorphous silicon long-wave infrared (LWIR) microbolometer		Sun-safe amorphous silicon long-wave infrared (LWIR) microbolometer		Sun-safe amorphous silicon long-wave infrared (LWIR) microbolometer	
Pixel size	25 micron		25 micron		17 micron	
Sensitivity (NETD)	<50 mK at f/1.0		<50 mK at f/1.0		<50 mK at f/1.0	
Processors/scanning	3/progressive		3/Progressive		3/Progressive	
Lens options	6.3 mm		14.25 mm	35 mm	50 mm	100 mm
Field of view (H/V/D)	55°/41°/68°		39°/29°/48°	16°/12°/19°	11°/8°/14°	6°/4°/7°
Array format/effective resolution	240x184/44,160		384x288/110,592		640x480/307,200	
Spectral response	7.5 to 13.5 µm (LWIR)		7.5 to 13.5 µm (LWIR)		7.5 to 13.5 µm (LWIR)	
Normalization source	Internal shutter (offset only), 0.3 second video freeze during shutter		Internal shutter (offset only), 0.3 second video freeze during shutter		Internal shutter (offset only), 0.3 second video freeze during shutter	
Display formats	White hot, black hot, and rainbow		White hot, black hot, and rainbow		White hot, black hot, and rainbow	
Built in analytics	Adaptive motion, camera sabotage, loitering detection, object counting, stopped vehicle		Adaptive motion, camera sabotage, loitering detection, object counting, stopped vehicle		Adaptive motion, camera sabotage, loitering detection, object counting, stopped vehicle	
Alarm inputs/relay outputs	1/1		1/1		1/1	
Compression formats	H.264 high, main or base profile, MJPEG		H.264 high, main or base profile, MJPEG		H.264 high, main or base profile, MJPEG	
Video streams	Up to 2 simultaneous streams		Up to 2 simultaneous streams		Up to 2 simultaneous streams	
Video resolutions/frame rate	240x184 or 160x120/8.3, 25, or 30 ips		384x288, 320x240, or 320x176 (16:9)/8.3, 25, or 30 ips		640x480 or 320x240/8.3, 25, or 30 ips	
Network protocols	TCP/IP, UDP/IP (unicast, multicast IGMP), UPnP, DNS, DHCP, RTP, NTP, IPv4, SNMP, QoS, HTTP, HTTPS, LDAP (client), SSH, SSL, SMTP, FTP, mDNS (Bonjour), 802.1x (EAP)		TCP/IP, UDP/IP (unicast, multicast IGMP), UPnP, DNS, DHCP, RTP, NTP, IPv4, SNMP, QoS, HTTP, HTTPS, LDAP (client), SSH, SSL, SMTP, FTP, mDNS (Bonjour), 802.1x (EAP)		TCP/IP, UDP/IP (unicast, multicast IGMP), UPnP, DNS, DHCP, RTP, NTP, IPv4, SNMP, QoS, HTTP, HTTPS, LDAP (client), SSH, SSL, SMTP, FTP, mDNS (Bonjour), 802.1x (EAP)	
Local storage	Micro SD		Micro SD		Micro SD	
Audio	Bidirectional, half duplex; line level/external microphone input; 600 Ohm differential; 1 Vp-p maximum signal level		Bidirectional, half duplex; line level/external microphone input; 600 Ohm differential; 1 Vp-p maximum signal level		Bidirectional, half duplex; line level/external microphone input; 600 Ohm differential; 1 Vp-p maximum signal level	
Audio compression	G.711 PCM 64 kbps		G.711 PCM 64 kbps		G.711 PCM 64 kbps	
USB expansion ports	No		No		No	
Users	Unicast – up to 20 simultaneous users depending on resolution settings (2 guaranteed streams); multicast – Unlimited users H.264		Unicast – Up to 20 simultaneous users depending on resolution settings (2 guaranteed streams); Multicast – unlimited users H.264		Unicast – Up to 20 simultaneous users depending on resolution settings (2 guaranteed streams); Multicast – Unlimited users H.264	
PoE	No		No		No	
Analog output	Yes, BNC, 75 ohms, unbalanced, NTSC or PAL 1Vp-p		Yes, BNC, 75 ohms, unbalanced, NTSC or PAL 1Vp-p		Yes, BNC, 75 ohms, unbalanced, NTSC or PAL 1Vp-p	
Power	24 Vac / 24 Vdc		24 Vac/24 Vdc		24 Vac/24 Vdc	
Certifications	FCC and CE-class A; UL listed; C-Tick; NEMA 4/ IP66; shock and vibration, meets NEMA TS 2; IEC613736-8, -9, -10		FCC and CE-class A; UL listed; C-Tick; NEMA 4/ IP66; shock and vibration, meets NEMA TS 2; IEC613736-8, -9, -10		FCC and CE-class A; UL listed; C-Tick; NEMA 4/ IP66; shock and vibration, meets NEMA TS 2; IEC613736-8, -9, -10	

* Visit B.O.S.S. 5.0 at pelco.com for complete part numbers.

Network Thermal Imaging Cameras

The all-digital Sarix™ TI thermal-imaging camera system represents the evolution of thermal imaging by delivering industry-leading image quality and the performance, features, and ease of integration that security professionals demand. Visit www.pelco.com/sarixti to learn more.

Sarix TI Series Thermal IP Pan /Tilt Cameras



ESTI3* Series
384x288 resolution






ESTI6* Series
640x480 resolution

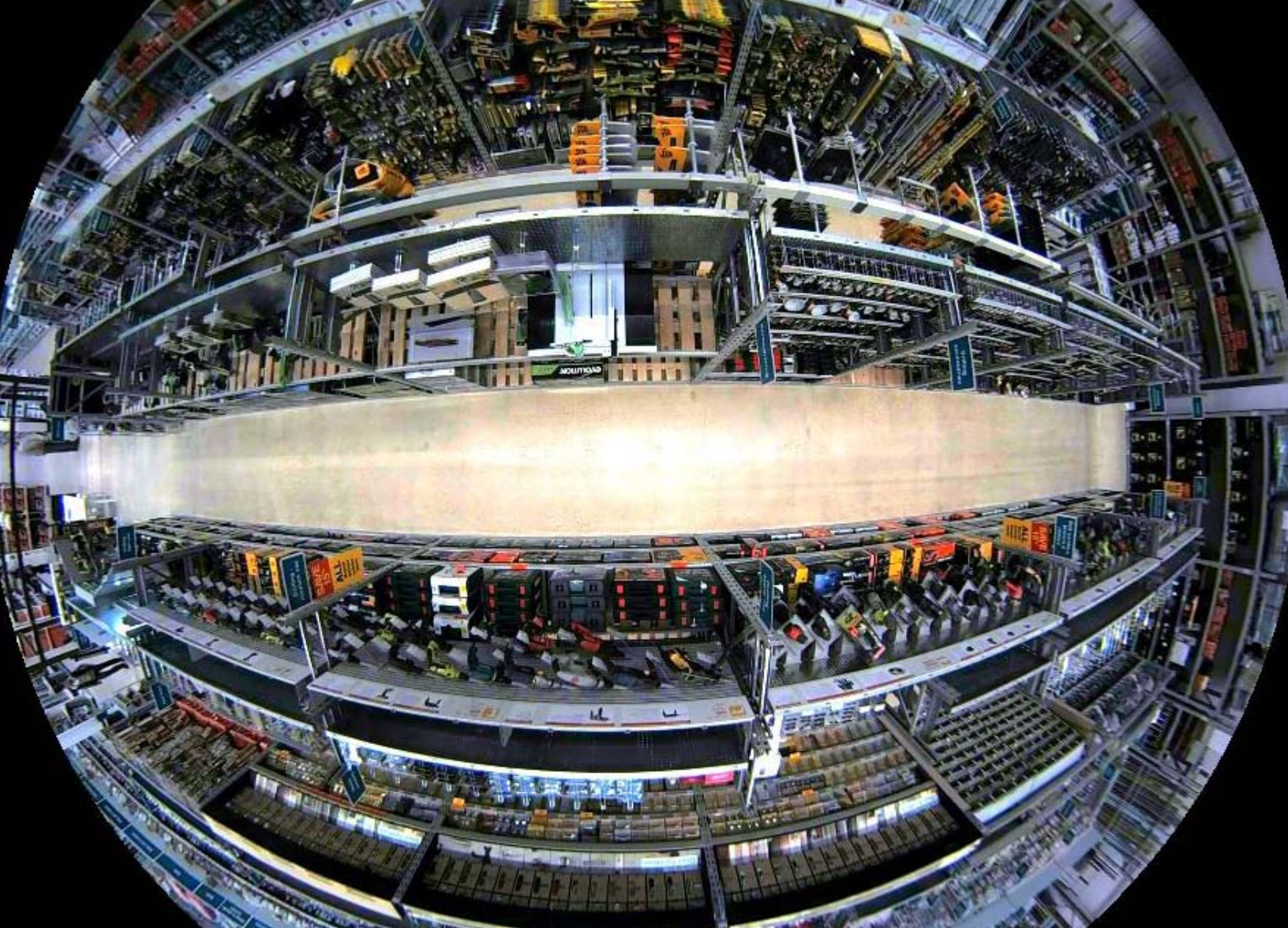
Sensor	Sun-safe amorphous silicon long wave infrared (LWIR) microbolometer				Sun-safe amorphous silicon long wave infrared (LWIR) microbolometer			
Pixel size	25 micron				17 micron			
Sensitivity (NETD)	<50 mK at f/1.0				<50 mK at f/1.0			
Processors/scanning	3/progressive				3/Progressive			
Lens options	14.25 mm	35 mm	50 mm	100 mm	35 mm	50 mm	100 mm	
Field of view	39°/29°/48°	16°/12°/19°	11°/8°/14°	6°/4°/7°	18°/13°/22°	12°/9°/15°	6°/5°/8°	
Resolution	384x288/110,592				640x480/307,200			
Spectral response	7.5 to 13.5 µm (LWIR)				7.5 to 13.5 µm (LWIR)			
Normalization source	Internal shutter (offset only), 0.3 second video freeze during shutter				Internal shutter (offset only), 0.3 second video freeze during shutter			
Display formats	White hot, black hot, and rainbow				White hot, black hot, and rainbow			
Built in analytics	Adaptive motion, camera sabotage, loitering detection, object counting, stopped vehicle				Adaptive motion, camera sabotage, loitering detection, object counting, stopped vehicle			
Alarm inputs/relay outputs	1/1				1/1			
Compression formats	H.264 high, main or base profile, MJPEG				H.264 high, main or base profile, MJPEG			
Video streams	Up to 2 simultaneous streams				Up to 2 simultaneous streams			
Video resolutions/frame rate	384x288, 320x240 or 320x176 (16:9)/8.3, 25, or 30 ips				640x480 or 320x240/8.3, 25, or 30 ips			
Network protocols	TCP/IP, UDP/IP (unicast, multicast IGMP), UPnP, DNS, DHCP, RTP, NTP, IPv4, SNMP, QoS, HTTP, HTTPS, LDAP (client), SSH, SSL, SMTP, FTP, mDNS (Bonjour), 802.1x (EAP)				TCP/IP, UDP/IP (unicast, multicast IGMP), UPnP, DNS, DHCP, RTP, NTP, IPv4, SNMP, QoS, HTTP, HTTPS, LDAP (client), SSH, SSL, SMTP, FTP, mDNS (Bonjour), 802.1x (EAP)			
Local storage	Micro SD				Micro SD			
Audio	UTP 600 ohm mono, 12 Vdc power source, line level/external microphone input, 1 Vp-p maximum signal level				UTP 600 ohm mono, 12 Vdc power source, line level/external microphone input, 1 Vp-p maximum signal level			
Compression	G.711 PCM 64 kbps				G.711 PCM 64 kbps			
USB expansion ports	No				No			
Users	Unicast – Up to 20 simultaneous users depending on resolution settings (2 guaranteed streams); multicast – Unlimited users H.264				Unicast – Up to 20 simultaneous users depending on resolution settings (2 guaranteed streams); multicast – Unlimited users H.264			
PoE	No				No			
Analog output	Yes, BNC, 75 ohms, unbalanced, NTSC or PAL 1Vp-p				Yes, BNC, 75 ohms, unbalanced, NTSC or PAL 1Vp-p			
Pan/tilt features	360° continuous pan/+33° to -83° tilt from horizontal				360° continuous pan/+33° to -83° tilt from horizontal			
Analog data formats	Coaxitron, RS-422 (P or D)				Coaxitron, RS-422 (P or D)			
Presets/preset speed/preset tours	255/100° per sec / yes				255/100° per sec/yes			
Power	24 Vac/115 Vac/230 Vac				24 Vac/115 Vac/230 Vac			
Certifications	FCC and CE-Class A; UL listed; C-Tick; NEMA 4/IP66; shock and vibration, meets NEMA TS 2; IEC613736-8, -9, -10				FCC and CE-class A; UL listed; C-Tick; NEMA 4/IP66; shock and vibration, meets NEMA TS 2; IEC613736-8, -9, -10			

* Visit B.O.S.S. 5.0 at pelco.com for complete part numbers.

Network Panoramic Cameras

Evolution cameras provide total situational awareness over a 360-degree field of view. The many facets of the 360-degree camera and its forensic capabilities are literally limitless, ranging in every application imaginable from city surveillance, to retail, to gaming, and more.

	Evolution 360 Degree Indoor Cameras	Evolution 360 Degree Indoor Concealed Cameras	Evolution 360 Degree Outdoor Dome
			
GENERAL			
Max Resolution	4Mp (2144x1944)	4Mp (2144x1944)	4Mp (2144x1944)
Image Sensor	5 megapixel; 1/2.5-Inch CMOS Sensor	5 megapixel; 1/2.5-Inch CMOS Sensor	5 megapixel; 1/2.5-Inch CMOS Sensor
Lens	360° FOV, FF 1.6mm / F2.0	360° FOV, FF 1.6mm / F2.0	360° FOV, FF 1.6mm / F2.0
Day/Night	No	No	No
Wide Dynamic Range	90 dB	90 dB	90 dB
Illumination	0.2 lux = 50 IRE F/2.0 (6500K)	0.2 lux = 50 IRE F/2.0 (6500K)	0.2 lux = 50 IRE F/2.0 (6500K)
Video Compression	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG
Max IPS at Max Resolution	10 fps typical at maximum resolution and up to 15 fps for all other resolutions	10 fps typical at maximum resolution and up to 15 fps for all other resolutions	10 fps typical at maximum resolution and up to 15 fps for all other resolutions
Video streams	2 configurable streams + service stream	2 configurable streams + service stream	2 configurable streams + service stream
Audio	line-in	line-in	line-in
DIDO	1 in, 1 out	1 in, 1 out	1 in, 1 out
Analytics	VMD - 12 regions of interest	VMD - 12 regions of interest	VMD - 12 regions of interest
Local Storage	Built-in SD Card slot	Built-in SD Card slot	Built-in SD Card slot
Networking / Supported IP protocol	TCP/IP, HTTP, DHCP, DNS, NTP, FTP, SMTP, RSTP	TCP/IP, HTTP, DHCP, DNS, NTP, FTP, SMTP, RSTP	TCP/IP, HTTP, DHCP, DNS, NTP, FTP, SMTP, RSTP
Power input	12V, PoE (IEEE 802.3af), 8W max	12V, PoE (IEEE 802.3af), 8W max	12V, PoE (IEEE 802.3af), 8W max
Operating Temperature Range	-40 to +55°C (-40 to +131°F)	-40 to +55°C (-40 to +131°F)	-40 to +55°C (-40 to +131°F)
Mount Options	Surface mount (or with a range of mounting accessories for mounting to a pole / wall / pedant)	Behind ceiling or wall to conceal the camera module from view via flush mounted adaptor ring	Surface mount (or with a range of mounting accessories for mounting to a pole / wall / pedant)
Rugged	IP54-rated – Indoor use only	IP54-rated – Indoor use only	IP66-rated; Shock and Vibration (BS EN 60068-2-64 and BS EN 60068-2-27)
Open connectivity	ONVIF Profile S - integrated dewaping Digital Sentry 7.5 (or later) and other leading VMS platforms	ONVIF Profile S - integrated dewaping Digital Sentry 7.5 (or later) and other leading VMS platforms	ONVIF Profile S - integrated dewaping Digital Sentry 7.5 (or later) and other leading VMS platforms



Degree Cameras

Evolution cameras provide total situational awareness over a 360-degree field of view, generating a number of video streams at a choice of resolutions, as well as configurable privacy zones and video motion detection within defined areas of interest.

There really are no limits on how 360-degree technology, coupled with the best patented 3D dewarping technology and integrated into a video-management system (VMS), can add value. The many facets of the 360-degree camera and its forensic capabilities are literally limitless, ranging in every application imaginable, from city surveillance, to retail, to gaming, and more.

Digital Video Recorders

DX Series DVRs are the ideal choice for an affordable, efficient entry into full-featured video storage management. With support for four to 16 analog cameras, 120 to 480 ips, and storage from 250 GB to 8 TB, these systems are designed for easy use out of the box. Customers can connect Pelco DVRs and HVRs by using DS Control Point or the DX Series Client.

	DX4100	DX4700	DX4800
			
GENERAL			
Analog camera inputs	4	8, 16	8, 16
Looping	Yes	Yes	Yes
IP camera inputs	None	2 Megapixel (Mpx)	2 Megapixel (Mpx)
Maximum record rate D1/4CIF	30 ips NTSC, 25 ips PAL (4CIF)	120 ips NTSC, 96 ips PAL (4CIF)	480 ips NTSC, 400 ips PAL (4CIF)
Compression technology	H.264	H.264	H.264
Hard drive options, internal	250 GB – 2 TB, 1 TB with ODD	250 GB – 8 TB	250 GB – 8 TB
Optical disk drive	DVD	DVD-RW	DVD-RW
Alarm inputs/relay outputs	4/1	8/2 or 16/4	8/2 or 16/4
Audio inputs/outputs	4/1	2 or 4/2	4/2
PTZ control	RS-422	Coaxitron, RS-422	Coaxitron, RS-422
Front panel controls	Yes	Yes	Yes
IR remote control	Yes	Yes	Yes
Multilingual support	Yes	Yes	Yes
System compatibility	DX Series client, DS ControlPoint	DX Series client, DS ControlPoint, DX mobile app	DX Series client, DS ControlPoint, DX mobile app
DISPLAY OPTIONS			
Monitor outputs	1 main - VGA or BNC switch-selectable; 1 spot BNC, single channel view	1 main - VGA or BNC; composite	1 main - VGA or BNC; composite
Camera display	Main - 1, 4	1, 4, 6, 8, 9,16	1, 4, 6, 8, 9,16
Digital zoom live/playback	No / No	No	No
FUNCTION			
Alarm, motion, continuous, scheduled recording modes	Yes	Yes, including ATM/POS	Yes, including ATM/POS
Increased record rate on alarm/motion ("bump on alarm")	Yes	Yes	Yes
Pre alarm/post alarm	Off, 5, 10, 20, 30, 40, 50, 60 sec/10, 20, 30, 40, 50 sec, 1, 2, 3, 5, 10 min	1 minute / 10 minutes	1 minute / 10 minutes
Video analytics	No	No	No
REMOTE CLIENT			
DX mobile app (iPhone, iPad, Android)	No	Yes	Yes
PC remote client	Yes	Yes	Yes
View live	Yes	Yes	Yes
Playback	Yes	Yes	Yes
PTZ control	Yes	Yes	Yes
Web browser	Live view	Live view	Live view
Windows support	Windows® 7, Vista®, XP Pro® (with ControlPoint or DX Series client)	Windows® 7, Vista®, XP Pro® (with ControlPoint or DX Series client)	Windows® 7, Vista®, XP Pro® (with ControlPoint or DX Series client)

Hybrid Video Recorders

DX hybrid video recorders meet the demands of customers migrating to IP video while leveraging their existing analog video surveillance infrastructure. With support for 8 to 32 analog cameras, plus 8 IP megapixel (MPX) cameras (DX4700HD/DX4800HD), and storage from 250 GB to 8 TB, these easy-to-use systems are ready to record out of the box.



GENERAL		
Analog camera inputs	8, 16	8, 16
Looping	Yes	Yes
IP camera inputs	Up to 8 mpx	Up to 8 mpx
Maximum record rate D1/4CIF	120 ips NTSC, 100 IPS pal (D1)	480 ips NTSC, 400 ips PAL (D1)
Compression technology	H.264 main profile	H.264 main profile
Hard drive options, internal	250 GB – 8 TB	250 GB – 8 TB
Optical disk drive	DVD-RW	DVD-RW
Alarm inputs/relay outputs	8 or 16/2	8 or 16/4
Audio inputs/outputs	2/2	4/2
PTZ control	Yes	Yes
Front panel controls	Yes	Yes
IR remote control	Yes	Yes
Multilingual support	Yes	Yes
System compatibility	DX Series client, DS ControlPoint, DX mobile App	DX Series client, DS ControlPoint, DX mobile app
DISPLAY OPTIONS		
Monitor outputs	1 main - VGA or BNC; composite	1 main - VGA or BNC; composite
Camera display	1, 4, 6, 8, 9,16, 25	1, 4, 6, 8, 9,16, 25
Digital zoom live/playback	No	No
FUNCTION		
Alarm, motion, continuous, scheduled recording modes	Yes, including ATM/POS	Yes, including ATM/POS
Increased record rate on alarm/motion ("bump on alarm")	Yes	Yes
Pre alarm/post alarm	1 minute / 10 minutes	1 minute / 10 minutes
REMOTE CLIENT		
DX mobile app (iPhone, iPad, Android)	Yes	Yes
PC remote client	Yes	Yes
View live	Yes	Yes
Playback	Yes	Yes
PTZ control	Yes	Yes
Web browser	Live view, PTZ	Live view, PTZ
Windows support	Microsoft Windows 2000, Windows XP (SP3), Windows Vista , or Windows 7, and DirectX 9.1 (or later)	Microsoft Windows 2000, Windows XP (SP3), Windows Vista, or Windows 7, and DirectX 9.1 (or later)

IP Video Management Solutions

With full-featured DSNVs video-management software, a robust DSSRV network video recorder (NVR), analog camera support via optional direct-attached or network video encoders, multisite monitoring, and support for third-party IP cameras, Digital Sentry is a flexible VMS for mainstream security applications.

Digital Sentry DSSRV



GENERAL

Analog camera inputs	16, 32, 48, or 64 via ENC5416
IP video inputs	Up to 128*
Number of included IP licenses	8 included; additional license fee may apply
Megapixel support	Up to 10 Mpx
Compression technology	H.264, MJPEG and MPEG-4, depending on IP camera
Operating system	Windows 7 Ultimate
Hard drive options, internal	500 GB, 3, 6, 9 12, 15, 18 TB (to 12 TB with ODD)
Hard drive options, external	SCSI, USB, or NAS
Optical Disk drive	DVD+/-RW with DSSRV-DVD models
RAID storage	Optional with RAID5 controller add-on or RAID5 model
Alarm inputs/relay outputs	See ENC5416 for analog alarms in/relays out
Audio inputs/outputs	Supports Sarix IP audio; See ENC5416 for analog audio recording
PTZ control	IP and analog supported
Multilingual support	Yes
System compatibility	DS ControlPoint to DS and DX systems

DISPLAY OPTIONS

Monitor outputs	Based on configuration of client PC; up to 6 monitors with appropriate graphics card
Camera views	22 layouts, from 1 to 36 cameras

FUNCTION

Alarm, Motion, Continuous, Scheduled Recording Modes	Yes
--	-----

REMOTE CLIENT

PC remote client	Yes
View live	Yes
Playback	Yes
Email on alarm	Yes
PTZ control	Yes
Remote administration	Yes
Mobile client	Yes
Windows support	Windows 7, Windows Vista, Windows Server® 2003/2008

* The database limitation for DSNVs is 128 cameras. The actual number of cameras supported depends on recording settings, client connections, and bandwidth capacity.

Digital Sentry DSSRV Options



ENC5416 Analog Encoder

GENERAL

Video resolutions	D1, 2CIF, CIF, QCIF
Frame rate	D1 480 NTSC/400 PAL, independently configurable
Alarm inputs	16 per ENC5416, 64 maximum per DSSRV
Relay outputs	4 per ENC5416, 16 maximum per DSSRV
Audio inputs	16 per ENC5416, 64 maximum per DSSRV
Compression format	H.264 main profile
Analog output	4 BNC connectors for spot monitor
PTZ control interface	2 RS-422, RS-485
PTZ/Protocols	Pelco D and 3rd-party
Rack mount	2 mounting brackets included, connection interface to NVR: direct attached via HDMI cable



Software-Only VMS Solution

This software-only solution is ideal when the preference is for COTS hardware, maximizing existing purchase and support agreements with server and PC suppliers. Windows-compatible, built-in support for ONVIF and a wide range of third-party IP cameras and encoders makes Digital Sentry a flexible VMS solution for mainstream security applications.

DSNVs



Maximum IP video inputs	Up to 128*
Third party camera supported	IP Drivers and ONVIF**
Camera license fees apply	4 free; additional connection license fee applies
Megapixel support	Up to 10 Mpx
Maximum # of clients	Dependent on system resources and bandwidth availability
Quick setup	✓
Export formats	H.264, MPEG-4, MPEG, JPEG, AVI, native DB
Alarm pop up notifications	✓
Search tools	Date/time/events/motion/scrub bar/Pelco analytic alarms, thumbnail
Archive video recording	Via archive utility
3rd party integrations	Via Pelco API
Compatibility via ControlPoint	DS systems including legacy DVX Master Control Series, Pelco DX4100, 4500/4600, 4700/4800, 4700HD/4800HD, 8000/8100
Operating systems	Windows 7, Windows Vista, Windows XP, Server 2003, 2008
Mobile app	Yes

* 128 is the database limitation. Actual number is dependent on hardware specifications and camera settings.

**See Document C1024RN-x "DS Compatibility Release Notes" on pelco.com.

IP Video Management Solutions

The Endura™ IP VMS offers the scalability, performance, and reliability required for mission-critical surveillance applications. Scalable to thousands of cameras, Endura is designed to fit a wide range of customer applications — including airports, casinos, and city surveillance applications — where unmatched fault tolerance and system integrity are mandatory.

Endura



GENERAL

Analog camera inputs	Yes, for supported cameras and encoders *
Compression technology	MPEG4 & H.264 (base, main, and high profile)
Storage optimization	Yes, Pelco EnduraStor
3rd-party storage	Optional fibre channel support
RAID 6 support	Yes
Alarm inputs/relay outputs	Yes, see Pelco.com for supported cameras & encoders
Audio support	Yes, see Pelco.com for supported cameras & encoders
PTZ control	Yes, see Pelco.com for supported cameras & encoders
Pelco matrix support	Yes
Multilingual Support	Yes
3rd party system integration	Yes
Pelco aggregation support	Yes

DISPLAY OPTIONS

Monitor output support	Hundreds of digital displays via DVI connections from WS5070, VCD5202, NET5402R-HD with built-in monitor wall control (1x1, 2x2, 3x3, 4x4, 1+5, 2+8, 1+12, 3x2, 4x3)
Digital zoom live/playback	Yes

FUNCTION

Alarm, motion, continuous, scheduled recording modes	Yes
Failover and redundancy	Yes
Pre alarm/post alarm	1 minute–999 minute / 1 minute–999 minute
Video analytics	Yes

REMOTE CLIENT

E mail on alarm, SNMP support	Yes
Remote administration	Yes
Web and mobile support	Yes

* Please visit www.pelco.com for updated list of supported devices.

Pelco Aggregation Software

Pelco aggregation software allows Endura customers to monitor multiple Endura installation sites via a common user interface. Leveraging industry-standard virtual machine implementation, Pelco aggregation creates a layer that spans multiple Endura systems, while allowing sites to be operated and managed locally. Featuring easy access to live and recorded video, PTZ support, and a Web-accessible platform, Pelco aggregation makes it possible to access any system from any location on any device, providing increased access to relevant video data to enable more informed decision making across organizations.

Network Video Encoders

This family of H.264 network video encoders provides high-performance, single- to multi-channel video encoding, integrating analog cameras and positioning systems into an IP video surveillance system.

NET5400 Encoder



NET5401, NET5402, NET5404

Video resolutions	4CIF, 2CIF, CIF, QCIF
Frame rate	25/30 fps at 4CIF maximum, scalable
Motion detection	Yes
Video analytics	Yes
Alarm inputs	3
Relay outputs	1
Onboard memory	User-supplied Micro SD
Operating temperature range	Minimum of 32 °F (0 °C), maximum 122 °F (50 °C)
Compression formats	MJPEG, H.264 (base, main, and high profile)
Data rate	20 kbit/s – 6 Mbit/s (2 Mbit/s per stream 16x 3x)
Video streams	3
Audio	2-way, full-or half-duplex
Analog data formats	No
Analog output	Looping on single and dual channel
Network protocols	TCP/IP, UDP/IP (unicast, multicast IGMP), UPnP, DNS, DHCP, RTP, NTP
Video signing at source	Yes
Web browser access	Yes
Open architecture	Yes, compatible with Pelco API
Pelco system compatibility	Endura, DS

We're Committed to Your Satisfaction.



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Monitors

With a unique industry understanding, Pelco by Schneider Electric specifically designs monitors to meet the demands of video-security professionals. This includes maximum reliability and power efficiency for around-the-clock usage, and the high-quality highly detailed images necessary for making security decisions.





	300 Series Desktop	400 Series Desktop
		
	PMCL317BL and PMCL319BL	PMCL417HB and PMCL419HB
GENERAL		
Native resolution	1280x1024	1280x1024
Brightness	250 nit	350 nit
Contrast ratio	1000:1	1000:4
Response time	5 ms	5 ms
Panel life	30K hours	50K hours
Viewing angle	160/160	160/160
Aspect ratio	5:4	5:4
ELECTRICAL		
Power consumption	<50 W	<50 W
Input voltage	100 to 240 Vac, 50/60 Hz	100 to 240 Vac, 50/60 Hz
Video input	1 BNC, looping; 1 S-video, looping; 1 RGB; 1 DVI	2 BNC, looping; 1 S-video, looping; 1 RGB; 1 DVI
ENVIRONMENTAL		
Operating temperature	32° F – 104° F (0° C – 40° C)	32° F – 104° F (0° C – 40° C)
Operating humidity	20% - 80% non condensing	20% - 80% non condensing
PHYSICAL		
Unit weight	10.8 lbs. (17"), 12.6 lbs. (19")	10.8 lbs. (17"), 12.6 lbs. (19")
Shipping weight	16 lbs. (17"), 18 lbs. (19")	16 lbs. (17"), 18 lbs. (19")
RECOMMENDED MOUNTS		
Wall mount	PMCL-WM, PMCL-WMT, PMCL-WM1A	PMCL-WM, PMCL-WMT, PMCL-WM1A
Ceiling mount	PMCL-CM, PMCL-CMP	PMCL-CM, PMCL-CMP
Rack mount	PMCL-17ARM, PMCL-19ARM	PMCL-17ARM, PMCL-19ARM
Certifications	CE class B; FCC class B; UL/cUL listed; C-Tick; S-Mark; ENERGY STAR® certified	CE class B; FCC class B; UL/cUL listed; C-Tick; S-Mark; ENERGY STAR certified
Warranty	3 years	3 years

	500 Series Desktop	500 Series Large Format
		
	PMCL524BL	PMCL532BL, PMCL42BL, PMCL46BL, and PMCL55BL
GENERAL		
Native resolution	1920x1080	1920x1080
Brightness	250 nit	500 nit (typical)
Contrast ratio	1000:1	3000:1 (32"), 4000:1 (42", 46", 55")
Response time	5 ms	6.5 ms (typical)
Panel life	30K hours	50K hours
Viewing angle	170/160	178/178
Aspect ratio	16:9	16:9
ELECTRICAL		
Power consumption	<33 W	120 W (32"), 150 W (42"), 160 W (46"), <170 W (55")
Input voltage	100 to 240 Vac, 50/60 Hz	100 to 240 Vac, 50/60 Hz
Video input	1 BNC, looping; 1 S-video, looping; 1 RGB; 1 DVI; 1 HDMI	1 S-video; 1 component video; 1 video in, 1 video out; 1 display port; 1 HDMI; 1 DVI in; 1 VGA out, 1 VGA in (*not available on PMCL532BL)
ENVIRONMENTAL		
Operating temperature	32° F – 104° F (0° C – 40° C)	32° F – 104° F (0° C – 40° C)
Operating humidity	10% – 90% non condensing	10% – 90% Non Condensing
PHYSICAL		
Unit weight	15.9 lbs.	27.6 lbs. (32"), 44.1 lbs. (42"), 50.0 lbs. (46"), 66.6 lbs. (56")
Shipping weight	24.0 lbs	35.7 lbs. (32"), 62.0 lbs. (42"), 67.2 lbs. (46"), 87.3 lbs. (56")
RECOMMENDED MOUNTS		
Wall mount	PMCL-WM, PMCL-WMT, PMCL-WM1A	PMCLNBWMT (tilt), PMCLNBWMF (fixed), PMCLNBWMS (arm)
Ceiling mount	PMCL-CM, PMCL-CMP	PMCL-CM, PMCL-CMP (32" only)
Rack mount	N/A	N/A
Certifications	CE Class B; FCC Class B; UL/cUL Listed; C-Tick; KCC; CCC; GOST-R; NOM;	CE class B; FCC class B; UL/cUL listed; C-Tick; CCC; GOST-R; NOM, ENERGY STAR Level 5.1 compliant
Warranty	3 years	3 years

Accessories: Enclosures






With convenient IP-centric-available features such as built-in PoE camera power and megapixel-optimized front windows, these new additions to the Pelco enclosure family will help protect camera investments today and well into the future.

Environmental Enclosures

	 EH16	 EH2500	 EH3508	 EH3512/EH3515
Maximum camera size*	22.86 L x 7.92 W x 7.62 H cm (9" x 3.12" x 3")	13.34 L (up to 33.66 L cm) x 6.99 W x 6.99 H cm [5.25" (up to 13.25") x 2.75" x 2.75"]	12.7 L (up to 17.27 L cm) x 7.28 W x 7.62 H cm [5" (up to 6.8") x 2.87" x 3"]	22.86 L (up to 33.66 L cm) x 7.28 W x 7.62 H cm [10.25" (up to 13.25") x 2.87" x 3"]
Viewing window	3 mm thick scratch-resistant Lexan®	0.95 mm thick Lexan®	4.7 mm thick Lexan®	4.76 mm thick Lexan®
Cable entry	1 x PG9 and 1 PG11 compression gland on bottom	Two adjustable 1/2-NPT liquid tight glands on back	Two PG13.5 compression glands on bottom	Two PG13.5 compression glands on bottom
Lid fastening	3 Torx-head T30 screws	Two captive screws	Link-lock no. 3 can be secured with a padlock (not supplied)	Link-lock no. 3 stainless steel can be secured with a padlock (not supplied)
Environment	IP66 and NEMA Type 4X	IP66 and NEMA Type 4	IP66 and NEMA Type 4	IP66 and NEMA Type 4
Power input	Power input 24VAC, POE IEEE802.3at, 230VAC	24 Vac; 120 Vac and 230 Vac for heater	24 Vac; 120 Vac and 230 Vac @ 50/60 Hz	24 Vac; 120 Vac and 230 Vac
Heater/defroster/blower	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes
Certifications	CE/UL/cUL	CE/UL/cUL	CE/UL/cUL	CE/UL/cUL

*Accepts camera and lens combinations (assumes lens is fully extended)





General Purpose Enclosures

	 EH14 Indoor/Outdoor, Compact	 EH4700 Outdoor, Medium	 EH5700 Outdoor, Large	 EH8100 Pressurized	 EHX*E Explosion Proof
Maximum camera size*	27.94 L x 8.25 W x 10.16 H cm (11.00" x 3.25" x 4.00")	33.02 L (up to 53.34 L cm) x 12.07 W x 10.795 H cm [13" (up to 21") x 5.5" x 4.25"]	39.37 L (up to 71.12 L cm) x 15.88 W x 13.97 H cm [15.5" (up to 28") x 6.25" x 5.5"]	35.56 L (up to 45.72 L cm) x 6.35 W x 6.35 H cm [14" (up to 18") x 2.5" x 2.5"]	6.990 H to 14.6 x 8.57 to 13.20 W x 7.62 to 60.96 H cm (2.750 to 5.75 cm x 3.375 to 5.125 x 12 to 24 cm)
Viewing window	Glass	6.35 mm thick Lexan®	6.35 mm-thick glass	5.715 mm-thick tempered glass	Fully tempered plate glass 10.8/11.43/ 14.92 cm, depending on model
Cable entry	2 adjustable 0.5 in NPT liquid-tight gland	Two PG13.5 compression glands on bottom	Two PG13.5 UL glands on bottom	16-pin receptical with jam nut connects to MS connector	2 explosion-proof sealable fittings
Lid fastening	2 Torx screw	Link-lock no. 3 stainless steel can be secured with a padlock (not supplied)	Link-lock no. 3 stainless steel can be secured with a padlock (not supplied)	Sealed and pressurized	Sealed
Environment	IP66 and NEMA Type 4	NEMA Type 3R	NEMA Type 3R	IP67 and NEMA Type 6	Explosion proof and marine
Power input	24VAC, 230VAC	24 Vac; 120 Vac and 230 Vac @ 50/60 Hz	24 Vac; 120 Vac and 230 Vac @ 50/60 Hz	120/230 Vac	24 Vac; 120 Vac and 230 Vac
Heater/defroster/blower/wiper	Yes / Yes / Yes (EH14-2, -3 only)	Yes/Yes/Yes/No	Yes/Yes/Yes/Yes	Yes/Yes/Yes/No	Yes/Yes/Yes/No
Certifications	CE	CE/UL/C-tick	CE/UL/C-tick	CE/UL/cUL	CE/UL/cUL




*Accepts camera and lens combinations (assumes lens is fully extended)

Accessories: Enclosures

With convenient IP-centric-available features such as built-in PoE camera power and megapixel-optimized front windows, these new additions to the Pelco enclosure family will help protect camera investments today and well into the future.

Fortified Enclosures Systems				
	 FH-Hx Series High Temperature	 FH-Lx Series Low Temperature	 FH-Mx Series High Humidity	 FH-Sx Series Solar Powered
Dimension	Analog or IP camera and lens included 39.12 H x 64.11 L x 19.21 W cm (15.4" x 25.24" x 7.56")	Analog or IP camera and lens included 39.12 H x 64.11 L x 19.21 W cm (15.4" x 25.24" x 7.56")	Analog or IP camera and lens included 39.12 H x 64.11 L x 19.21 W cm (15.4" x 25.24" x 7.56")	Analog or IP camera and lens included 39.12 H x 64.11 L x 19.21 W cm (15.4" x 25.24" x 7.56")
Viewing window	6.35mm thick Lexan®	6.35mm thick Lexan®	6.35mm thick Lexan®	6.35mm thick Lexan®
Cable entry	mount arm, field installed	mount arm, field installed	mount arm, field installed	mount arm, field installed
Environment	IP66	IP66	IP66	IP66
Vandal	IK10	IK10	IK10	IK10
Power input	100 - 240VAC	24VAC	24VAC	12VDC
Heater/defroster/blower	No / No / Yes	Yes / No / Yes	No / No / Yes	No / Yes / Yes
Hinged lid	Yes	Yes	Yes	Yes
Certifications	CE / UL / cUL	CE / UL / cUL	CE / UL / cUL	CE / UL / cUL
Fiber optic media converter	Optional (not for C-20 camera)	Optional (not for C-20 camera)	Optional (not for C-20 camera)	Optional (not for C-20 camera)



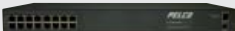


*Complete camera, lens, housing system included

High Security Enclosures			
	 HS1500 Ceiling/Wall Mount	 HS2100 Low-Profile Wedge	 HS3000 Corner Mount
Maximum camera size*	10.16 L x 10.16 W x 20.32 W cm (4.0" x 4.0" x 8.0")	7.62 L x 10.16 W x 25.4 W cm (3.0" x 4.0" x 10.0")	9.53 L x 8.25 W x 22.86 W cm (3.75" x 3.25" x 9.0")
Viewing window	12.7 mm thick Lexan®	12.7 mm thick Lexan®	Smoked 6.35 mm thick Lexan®
Cable entry	Access through back and top	Two conduit knock outs on upper back box	Three 1.27cm cable knock-out holes
Environment	Indoor NEMA Type 1	Indoor NEMA Type 1	Indoor
Power input	NA	NA	24 Vac/110 Vac for heater
Vandal	Tamper switch/vandal resistant	Tamper-resistant screw	Tamper switch/vandal resistant
Heater/defroster/blower	Yes/No/Yes	No/No/No	Yes/No/No
Certifications	UL	NA	UL

*Accepts camera and lens combinations (assumes lens is fully extended)

Accessories: PoE Midspan

Powering the next generation IP security networks requires standardized power sources designed to protect sensitive edge devices and cameras. These Power over Ethernet midspans are engineered to provide the highest level of protection with standardized IEEE power sources and network management tools to manage IP assets remotely.

PoE Midspan					
					
	1 Single Channel	4 Channel	8 Channel	16 Channel	1 Single Channel
Number of channels	1	4	8	16	1
Data rate	10/100/1000 Base T	10/100/1000 Base T	10/100/1000 Base T	10/100/1000 Base T	10/100/1000 Base T
Maximum power output	30W	134W	269W	538W	19W
Power input	AC 90 to 264 Vac with frequency range 47 to 63 Hz.	AC 90 to 264 Vac with frequency range 47 to 63 Hz.	AC 90 to 264 Vac with frequency range 47 to 63 Hz.	AC 90 to 264 Vac with frequency range 47 to 63 Hz.	33.4W
Operating temperature	32° F – 104° F (0° C – 40° C)	32° F – 104° F (0° C – 40° C)	32° F – 104° F (0° C – 40° C)	32° F – 104° F (0° C – 40° C)	32° F – 131° F (0° C – 55°C) @ 10 MB and 100 MB rates; 32° F – 104° F (0° C – 40°C) @ GB rates
LED indicators	Power on/fault detection	Power on/fault detection	Power on/fault detection	Power on/fault detection	Power on/fault detection
IEEE 802.3 at compliance	Fully compliant detection, disconnect, over voltage and current protection	Fully compliant detection, disconnect, over voltage and current protection	Fully compliant detection, disconnect, over voltage and current protection	Fully compliant detection, disconnect, over voltage and current protection	Fully compliant detection, disconnect, over voltage and current protection
Power connector	U.S. power cord or EU power cord	U.S. power cord or EU power cord	U.S. power cord or EU power cord	U.S. power cord or EU power cord	U.S. power cord or EU power cord
Mounting	Desktop	Desktop with optional rack mount	Rack mount	Rack mount	Desktop and ears for wallmounting
Network management	NA	Web interface and SNMP management	Web interface and SNMP management	Web interface and SNMP management	NA
Certifications	UL/cUL/CE/ FCC	UL/cUL/CE/ FCC	UL/cUL/CE/ FCC	UL/cUL/CE/ FCC	CE




Accessories: IR Illuminators

For low-light scenes, proper illumination makes the difference between usable and non-usable video. For increased megapixel camera performance in low-light situations, and for lower energy consumption and reduced bandwidth-consuming night scene video noise, choose from a wide range of Pelco IR and White Light low-voltage illumination systems.

	Semi Covert and Covert IR Illuminator			White Light LED IR Illuminator		
						
	IR850S-65/IR940S-30 Small	IR850M-120/IR940M-60 Medium	IR850L-220/IR940L-110 Large	WLED5-50 Small	WLEDM-90 Medium	WLEDL-150 Large
Max range	65M/30M	120M/60M	220M/110M	50M	90M	150M
Variable focal lenth	10 to 120° using interchangeable defuser	10 to 120° using interchangeable defuser	10 to 120° using interchangeable defuser	10 to 120° using interchangeable defuser	10 to 120° using interchangeable defuser	10 to 120° using interchangeable defuser
Wavelength	850nm/940nm	850nm/940nm	850nm/940nm	White light	White light	White light
Input power	12W	24W	48W	12W	24W	48W
Input voltage	12VDC; 24VAC	12VDC; 24VAC	12VDC; 24VAC	12VDC; 24VAC	12VDC; 24VAC	12VDC; 24VAC
Vandal resistance	IK9	IK9	IK9	IK9	IK9	IK9
Warranty	5 years	5 years	5 years	5 years	5 years	5 years
Environment	IP66	IP66	IP66	IP66	IP66	IP66
Accessories	Remote setup tool/wall bracket	Remote setup tool/wall bracket	Remote setup tool/wall bracket	Remote setup tool/wall bracket	Remote setup tool/wall bracket	Remote setup tool/wall bracket
Certifications	CE/UL/cUL/FCC	CE/UL/cUL/FCC	CE/UL/cUL/FCC	CE/UL/cUL/FCC	CE/UL/cUL/FCC	CE/UL/cUL/FCC

IP Video Transmission Solutions

Pelco IP fiber optic and Ethernet network products deliver the high-level performance that video security applications demand. By offering very reliable, robust transmission systems, any long-distance transmission challenge can be easily overcome.



	Ethernet Media Converters	Ethernet Media Converters (requiring FSFP module)	
	 FMCI-AF & FMCI-BF Series**	 FMCI-PF Series	 FMCI-PG Series
ELECTRICAL			
Number of TX electrical ports	1	1 (mini); up to 2 (standard)	1 (mini); up to 2 (standard)
TX data rate	10/100 Mbps	10/100 Mbps, Ethernet	10/100/1000 Mbps, Ethernet
Operating mode	Full-duplex or half-duplex	Full-duplex or half-duplex	Full-duplex or half-duplex
OPTICAL			
Number of FX optical ports	Up to 2	1 (mini); up to 2 (standard)	1 (mini); up to 2 (standard)
FX data rate	100 Mbps	100 Mbps	1000 Mbps
Operating mode	Full-duplex	Full-duplex	Full-duplex
GENERAL			
Operating temperature	–40° F to 167° F (–40° C to 75° C)	–40° F to 167° F (–40° C to 75° C)	–40° F to 167° F (–40° C to 75° C)
Power input	(Standard Size) 8 to 24 VDC at 220 mA (from rack); (Mini) AC/DC 22 to 27 VAC at 100 mA or 8 to 24 VDC at 220 mA	8 to 15 Vdc	8 to 15 Vdc
LED indicators	Optical link, data; electrical link, data; power	Optical link, data activity	Optical link, data activity
Wavelength	1310/1550nm	FSFP dependent*	FSFP dependent*
Number of fibers	1	FSFP dependent*	FSFP dependent*
Optical power budget (MM/SM)	10 dB /15 dB	FSFP dependent*	FSFP dependent*
Fiber support distances	Up to 3 km (2 mi) multimode; up to 20 km (12 mi) singlemode	Up to 80 km (49.7 mi)*	Up to 120km (74.5 mi)*
Standalone/rack mountable	Yes	Yes	Yes
Number of rack slots	1 (standard size); N/A (mini)	1 (FMCI-PF1 and PMCI-PF2 models only)	1 (FMCI-PG1 and PMCI-PG2 models only)
Optical connector	ST, 1 fiber	FSFP dependent*	FSFP dependent*
Power connector	Terminal block	Terminal block	Terminal block
Electrical connector	RJ-45	RJ-45	RJ-45
Certifications	CE, class A; FCC, class A; UL/cUL listed; C-Tick; RoHS; IEEE 802.3; designed to meet NEMA TS 1/TS 2 and Caltrans traffic signal control equipment environmental standards	CE, class E; FCC, Part 15; UL listed; C-Tick; IEEE 802.3; designed to meet NEMA TS 1/TS 2 and Caltrans traffic signal control equipment environmental standards	CE, class E; FCC, Part 15; UL listed; C-Tick; IEEE 802.3; designed to meet NEMA TS 1/TS 2 and Caltrans traffic signal control equipment environmental standards

*Requires selection of interchangeable FSFP modules (must be ordered separately) for specific fiber type, distance, and connector."



** Standard mount DC-only & mini AC/DC power media converters

IP Video Transmission Solutions

Systems make use of customer-installed, interchangeable Small Form-Factor Pluggable transceivers (FSFP units, sold separately) for compatibility with a wide range of optical fibers, optical connector types, and optical transmission distances.

Unmanaged Ethernet Switches (Requiring FSFP Module)		
		
	FUMS-F Series	FUMS-G Series
ELECTRICAL		
Number of TX electrical ports	Up to 8	Up to 8
TX data rate	10/100 Mbps	10/100/1000 Mbps
Operating mode	Full-duplex or half-duplex	Full-duplex or half-duplex
OPTICAL		
Number of FX Optical Ports	Up to 8	Up to 8
FX Data Rate	100 Mbps	1000 Mbps
Operating Mode	Full-duplex	Full-duplex
GENERAL		
Operating Temperature	–40° F to 167° F (–40° C to 75° C)	–40° F to 167° F (–40° C to 75° C)
Power Input	9 to 24 Vdc	9 to 24 Vdc
LED Indicators	Optical link, data; electrical link, data; power	Optical link, data; electrical link, data; power
Wavelength	FSFP dependent*	FSFP dependent*
Number of Fibers	FSFP dependent*	FSFP dependent*
Fiber Support Distances	FSFP dependent*	FSFP dependent*
Standalone/Rack Mountable	Yes	Yes
Number of Rack Slots	Up to 2	Up to 2
Optical Connector	FSFP dependent*	FSFP dependent*
Power Connector	Terminal block	Terminal block
Electrical Connector	RJ-45	FSFP dependent*
Certifications	CE, class E; FCC, Part 15; UL Listed; C-Tick; IEEE 802.3; designed to meet NEMA TS 1/TS 2 and Caltrans traffic signal control equipment environmental standards	CE, class E; FCC, Part 15; UL Listed; C-Tick; IEEE 802.3; designed to meet NEMA TS 1/TS 2 and Caltrans traffic signal control equipment environmental standards

*Requires selection of interchangeable FSFP modules (must be ordered separately) for specific fiber type, distance, and connector.

Small Form Factor Pluggable**		
		
	FSFP-E Series	FSFP-A & FSFP-B Series
ELECTRICAL		
Operating mode	Fiber or copper	Fiber
OPTICAL		
Number of FX optical ports	2	1
FX DATA RATE	FSFP dependent*	FSFP dependent*
Operating mode	Multimode, singlemode	Multimode, Singlemode
GENERAL		
Operating Temperature	–40° F to 167° F (–40° C to 75° C)	–40° F to 167° F (–40° C to 75° C)
Power input	MSA compliant	MSA compliant
LED indicators	None	None
Wavelength	Up to 1550 nm	1310nm/1550nm (FSFP-A only), 1550nm/1310nm (FSFP-B only)
Number of fibers	2, N/A for copper	1
Fiber support distances	Up to 120km (74.5mi) singlemode, up to 2km (1.2mi) multimode	Up to 60km (37.3mi) singlemode, Up to 2km (1.2mi) multimode
Standalone/rack mountable	N/A	N/A
Number of rack slots	N/A	N/A
Optical connector	LC	LC, SC
Optical loss budget	FSFP dependent*	FSFP dependent*
Power connector	N/A	N/A
Electrical connector	RJ-45 (copper only)	N/A
Certifications	CE, class E; FCC, Part 15; UL listed; IEEE 802.3; complies with 21 CFP 1040.10 and 1040.11	CE, class E; FCC, Part 15; UL listed; IEEE 802.3; complies with 21 CFP 1040.10 and 1040.11

*Requires selection of FSFP modules for specific fiber type, distance, optical loss budget, and connector.

**Required for use with all Pelco FSFP configurable products.

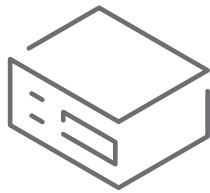
End-to-End Video Security

Pelco produces the industry's broadest and most respected offering of IP and analog video security systems. From megapixel and integrated positioning systems to video management and software-only solutions, Pelco is committed to providing complete, end-to-end solutions backed by the most comprehensive customer support in the video security industry.

As part of Schneider Electric, Pelco connects you to the global specialist in energy and security management, and has the ability to deliver integrated security and building management solutions that let you control your entire security landscape across enterprises, from a single user interface.



Capture.



Manage.



Display.

For more information, please visit pelco.com or call (800) 289-9100 (United States and Canada) or +1 (559) 292-1981 (international). For pricing information or to purchase Pelco products, please contact your manufacturer's representative or the Pelco office in your area.

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Product comparison guide

➤ Analog video solutions



Choose with confidence.

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As the global leader in the design and development of video security systems, Pelco™ by Schneider Electric™ produces an unmatched array of cameras, positioning systems, video matrix systems, next-generation DVRs and HVRs, and viewing solutions. Pelco has a video solution to suit your application.

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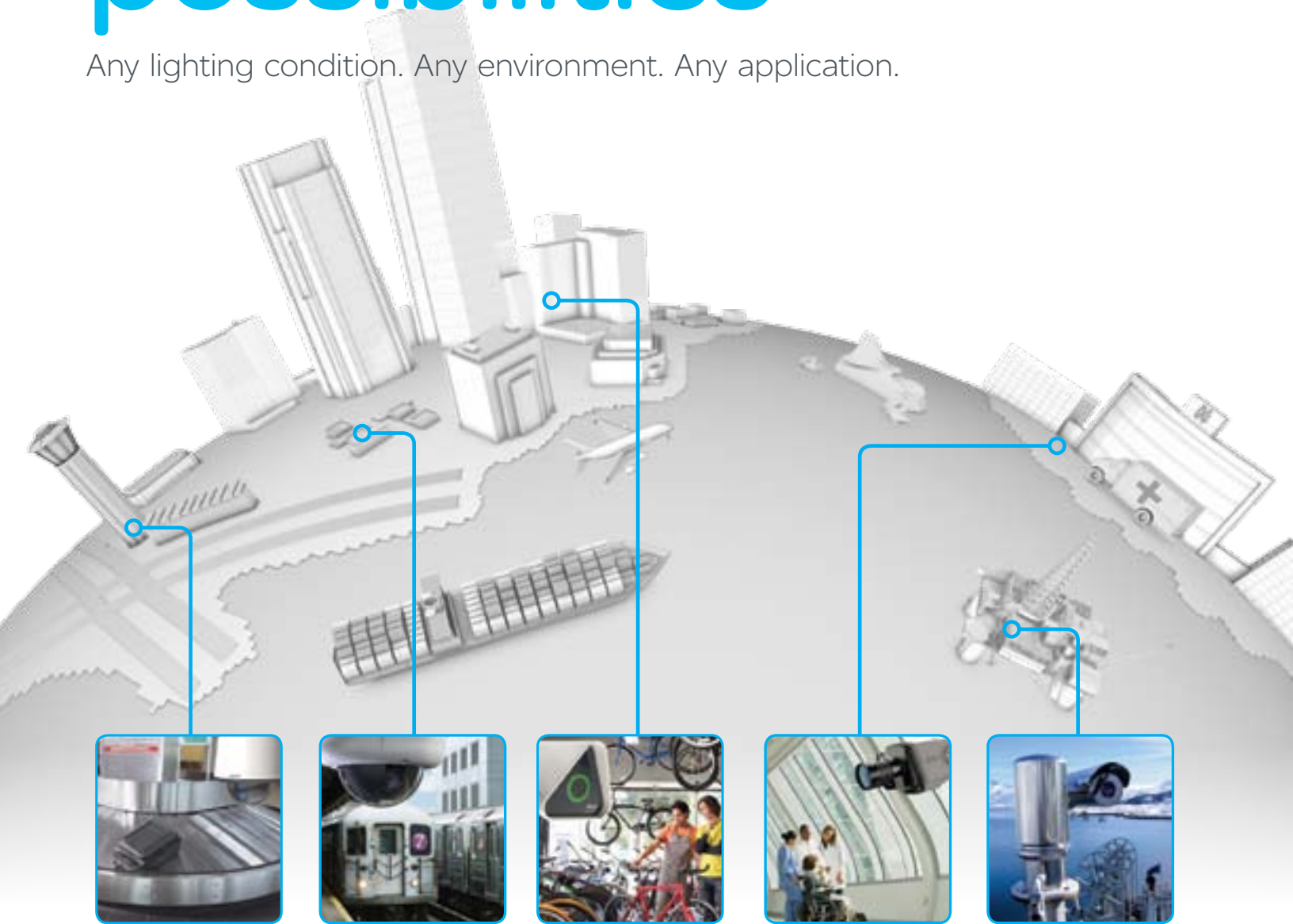
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Limitless possibilities

Any lighting condition. Any environment. Any application.



With thousands of IP cameras to choose from, Pelco™ by Schneider Electric™ has the right network-based video surveillance camera for any lighting condition, environment, and application.




Choose with confidence.

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Analog indoor dome with IR options

The FD1 Series entry-level indoor fixed domes offer full-featured, high-resolution analog performance at an affordable price. These compact, color CCD fixed dome cameras are available with IR illumination to capture clear images in low-light or no-light conditions. Wall-mount or ceiling-mount ready, these integrated dome cameras are ideal for protecting a wide range of indoor environments.

FD1 Series			
			
	FD1-F Series Fixed lens models	FD1-IRF Series IR illumination Fixed lens models	FD1-IRV Series IR illumination Varifocal lens models
Image sensor	Sony(R) 1/3-inch SuperHAD(TM) CCD II 760H	Sony 1/3-Inch SuperHAD CCD II 760H	Sony 1/3-Inch SuperHAD CCD II 760H
Effective pixels NTSC/PAL	"768 (H) x 494 (V)	768 (H) x 494 (V) 752 (H) x 582 (V)	768 (H) x 494 (V) 752 (H) x 582 (V)
Scanning area	5.59 (H) mm x 4.68 (V) mm (0.22 x 0.18 inches)	5.59 (H) mm x 4.68 (V) mm (0.22 x 0.18 inches)	5.59 (H) mm x 4.68 (V) mm (0.22 x 0.18 inches)
Horizontal resolution	540 TVL	540 TVL	540 TVL
Minimum illumination	f/2.0; 2,850°K; 30 IRE color 0.2 lux	f/2.0; 2,850°K; 30 IRE color 0.2 lux mono (with IR) 0.0 lux	f/1.2; 2,850°K; 30 IRE color 0.13 lux mono (with IR) 0.0 lux
IR illumination distance	—	15 m	20 m
IR sensitivity	—	> 40% at 850 nm, peak response	> 40% at 850 nm, peak response
Shutter NTSC/PAL	Auto 1/60 ~ 1/10,000 sec Auto 1/50 ~ 1/10,000 sec	Auto 1/60 ~ 1/10,000 sec Auto 1/50 ~ 1/10,000 sec	Auto 1/60 ~ 1/10,000 sec Auto 1/50 ~ 1/10,000 sec
White balance	Auto	Auto	Auto
Signal to noise ratio	48 dB (> 52 dB by parameter adjustment)	48 dB (> 52 dB by parameter adjustment)	48 dB (> 52 dB by parameter adjustment)
Lens	Fixed	Fixed	Varifocal
F number	f/2.0	f/2.0	f/1.2
Focal length	3.6 mm	3.6 mm	3.0 to 9.0 mm, DC AI
Focus range	∞ to 1.2 m (3.9 ft)	∞ to 1.2 m (3.9 ft)	∞ to 0.5 m (1.6 ft)
Horizontal angle of view	72° at 3.6 mm	72°	85.3° at 3.0 mm wide zoom; 31.5° at 9.0 mm telephoto zoom
Vertical angle of view	52° at 3.6 mm	52°	63.8° at 3.0 mm wide zoom; 23.7° at 9.0 mm telephoto zoom
Adjusting angle	±180°	±180°	±180°
Panning range/tilting range	+80° to 0°	+55° to 0°	+55° to 0°
Rotation range	0°	±180°	±180°
Power requirement (NTSC / PAL)	12 Vdc +10% to -15%, 60 Hz (NTSC) / 12 Vdc +10% to -15%, 50 Hz (PAL)	12 Vdc +10% to -15%, 60 Hz (NTSC) / 12 Vdc +10% to -15%, 50 Hz (PAL)	12 Vdc +10% to -15%, 60 Hz (NTSC) / 12 Vdc +10% to -15%, 50 Hz (PAL)
Power consumption	1 W	2.7 W	2.7 W
Certifications	CE, class B, FCC, class B, UL/cUL listed	CE, class B, FCC, class B, UL/cUL listed	CE, class B, FCC, class B, UL/cUL listed




Analog indoor dome with IR options

The FD2 Series indoor fixed domes offer full-featured, high-resolution analog performance at an affordable price. These compact, color CCD fixed dome cameras are available with IR to capture clear images in low-light or no-light conditions. Wall-mount or ceiling-mount ready, these integrated dome cameras are ideal for protecting a wide range of indoor environments.

FD2 Series					
	 FD2-F Series Fixed lens models	 FD2-V Series Varifocal lens models	 FD2-DV Series True day/night varifocal lens models	 FD2-IRV Series IR Illumination varifocal lens	 FD2-DWV Series True day/night, WDR, DSS varifocal lens models
Image sensor	Sony 1/3-inch EXview HAD™ CCD II 960H	Sony 1/3-inch EXview HAD CCD II 960H	Sony 1/3-inch EXview HAD CCD II 960H	Sony 1/3-inch EXview HAD CCD II 960H	Sony 1/3-inch EXview HAD CCD II 960H
Effective pixels NTSC/PAL	976 (H) x 494 (V) 976 (H) x 582 (V)	976 (H) x 494 (V) 976 (H) x 582 (V)	976 (H) x 494 (V) 976 (H) x 582 (V)	976 (H) x 494 (V) 976 (H) x 582 (V)	976 (H) x 494 (V) 976 (H) x 582 (V)
Synchronization	Internal	Internal	Internal	Internal	Internal
Horizontal resolution	650 TVL	650 TVL	650 TVL	650 TVL	650 TVL
Minimum illumination	f/2.0; 2,850°K; 30 IRE color 0.2 lux	f/1.2; 2,850°K; 30 IRE color 0.1 lux mono 0.05 lux	f/1.2; 2,850°K; 30 IRE color 0.1 lux mono 0.04 lux	f/1.2; 2,850°K; 30 IRE color 0.1 lux mono (with IR) 0.0 lux	f/1.2; 2,850°K; 30 IRE color (20 ms for PAL or 17 ms for NTSC) 0.13 lux color (500 ms) 0.03 lux mono (20 ms for PAL or 17 ms for NTSC) 0.05 lux mono (500 ms) 0.00004 lux
Dynamic range	Gamma selectable (ATR)	Gamma selectable (ATR)	Gamma selectable (ATR)	Gamma selectable (ATR)	120 dB dual-scan WDR
IR illumination distance	--	--	--	25 m	--
White balance	ATW/manual/push/push lock/ user1/user2/anti CR	ATW/manual/push/push lock/ user1/user2/anti CR	ATW/manual/push/push lock/ user1/user2/anti CR	ATW/manual/push/push lock/ user1/user2/anti CR	ATW/manual/push/push lock/ user1/user2/anti CR
Lens	Fixed	Varifocal	Varifocal	Varifocal	Varifocal
F number	f/2.0	f/1.2	f/1.2	f/1.2	f/1.2
Focal length	2.8 mm (FD2-F3 Series) 3.6 mm (FD2-F4 Series)	2.8 to 10.5 mm	2.8 to 10.5 mm	2.8 to 10.5 mm	2.8 to 10.5 mm
Focus range	∞ to 1.2 m (3.9 ft)	∞ to 0.3 m (1 ft)	∞ to 0.3 m (1 ft)	∞ to 0.3 m (1 ft)	∞ to 0.3 m (1 ft)
Horizontal angle of view	90° at 2.8 mm (FD2-F3 Series) 72° at 3.6 mm (FD2-F4 Series)	101.8° at 2.8 mm wide zoom; 27.4° at 10.5 mm telephoto zoom	101.8° at 2.8 mm wide zoom; 27.4° at 10.5 mm telephoto zoom	101.8° at 2.8 mm wide zoom; 27.4° at 10.5 mm telephoto zoom	101.8° at 2.8 mm wide zoom; 27.4° at 10.5 mm telephoto zoom
Vertical angle of view	80° at 2.8 mm (FD2-F3 Series) 52° at 3.6 mm (FD2-F4 Series)	73.2° at 2.8 mm wide zoom; 20.6° at 10.5 mm telephoto zoom	73.7° at 2.8 mm wide zoom; 20.6° at 10.5 mm telephoto zoom	73.7° at 2.8 mm wide zoom; 20.6° at 10.5 mm telephoto zoom	73.7° at 2.8 mm wide zoom; 20.6° at 10.5 mm telephoto zoom
Adjusting angle	±180°	±180°	±180°	±180°	±180°
Panning range/tilting	+90° to 0°	+90° to 0°	+90° to 0°	+55° to 0°	+90° to 0°
Range/rotation range	±180°	±180°	±180°	±180°	±180°
Motion detection	Included (4 areas)	Included (8 areas)	Included (4 areas)	Included (4 areas)	Included (4 areas)
Privacy zones	Included (8 areas)	--	Included (8 areas)	Included (8 areas)	Included (15 sizeable windows)
Digital zoom	--	--	--	--	Included, 255X
Image stabilization	--	--	Included	Included	Included
Camera titles	--	--	Included	Included	Included
Scene learning	--	--	--	--	Included
Analytics	--	--	--	--	Included
Remote access	--	--	--	--	Coaxitron and RS-485
Alarm out	--	--	1	1	1
Power requirement (NTSC / PAL)	12 Vdc/24 Vac +10% to -15%, 60 Hz (NTSC) / 12 Vdc/24 Vac +10% to -15%, 50 Hz (PAL)	12 Vdc/24 Vac +10% to -15%, 60 Hz (NTSC) / 12 Vdc/24 Vac +10% to -15%, 50 Hz (PAL)	12 Vdc/24 Vac +10% to -15%, 60 Hz (NTSC) / 12 Vdc/24 Vac +10% to -15%, 50 Hz (PAL)	12 Vdc/24 Vac +10% to -15%, 60 Hz (NTSC) / 12 Vdc/24 Vac +10% to -15%, 50 Hz (PAL)	12 Vdc/24 Vac +10% to -15%, 60 Hz (NTSC) / 12 Vdc/24 Vac +10% to -15%, 50 Hz (PAL)
Power consumption	2.5 W	2.5 W	2.5 W	4 W	4.5
Certifications	CE, class B, FCC, class B, UL/ cUL listed	CE, class B, FCC, class B, UL/ cUL listed	CE, class B, FCC, class B, UL/ cUL listed	CE, class B, FCC, class B, UL/ cUL listed	CE, class B, FCC, class B, UL/ cUL listed

Analog indoor dome with IR options

Featuring Super Dynamic 5 (SD5)[™] image technology, IS20/IS21 Series Camclosure[™] 2 indoor domes deliver unmatched performance and reliability at a remarkably affordable price. Camclosure 2 offers you a choice of high-resolution color CCD cameras built into a reliable, easy-to-install system.

IS20/IS21 Camclosure 2			
	 IS20/IS21-DWS Series SD5 day/night WDR models	 IS20/IS21-DN Series True day/night models	 IS20/IS21-CH Series Color models with simple day/night
Image sensor	1/3-inch interline transfer CCD	1/3-inch interline transfer CCD	1/3-inch interline transfer CCD
Effective pixels (NTSC/PAL)	976 (H) x 494 (V) / 976 (H) x 582 (V)	768 (H) x 494 (V) / 752 (H) x 582 (V)	768 (H) x 494 (V) / 752 (H) x 582 (V)
Scanning area	0.19-inch (H) x 0.14-inch (V) (4.8 x 3.6 mm)	0.19-inch (H) x 0.15-inch (V) (4.9 x 3.7 mm)	0.19-inch (H) x 0.15-inch (V) (4.9 x 3.7 mm)
Scanning system	2:1 interlace	2:1 interlace	2:1 interlace
Scanning lines (NTSC/PAL)	525 lines / 625 lines	525 lines / 625 lines	525 lines / 625 lines
Horizontal resolution	650 TVL typical (color mode) 700 TVL or more (B-W mode)	540 TVL (color mode, at center) 570 TVL (B-W mode)	540 TVL (at center)
Minimum illumination	0.1 lux (color mode) 0.003 lux (sensitivity up x32) 0.01 lux (B-W mode) 0.0003 lux (sensitivity up x32)	0.06 lux (color mode) 0.05 lux (B-W mode)	0.6 lux (color mode) 0.4 lux (B-W mode)
Dynamic range	54 dB	Adaptive black stretch	Adaptive black stretch
Day/night type	IR filter removal	IR filter removal	Simple
Video output	1.0 Vp-p, NTSC/PAL composite, 75 ohms, BNC connector	1.0 Vp-p, NTSC/PAL composite, 75 ohms, BNC connector	1.0 Vp-p, NTSC/PAL composite, 75 ohms, BNC connector
White balance	Auto tracking white balance/automatic white balance control	Auto tracking white balance/automatic white balance control	Auto tracking white balance/automatic white balance control
Signal to noise ratio	50 dB (equivalent to AGC off, weight on)	50 dB (equivalent to AGC off, weight on)	50 dB (equivalent to AGC off, weight on)
Lens	2X varifocal lens	3.6X varifocal lens	3.6X varifocal lens
Focal length	3.8 ~ 8.0 mm	2.8 ~ 10.0 mm	2.8 ~ 10.0 mm
F number	f/1.4 (wide) to f/1.8 (tele)	f/1.3 (wide) to f/3.1 (tele)	f/1.3 (wide) to f/3.1 (tele)
Focus range	x to 3.9 ft (1.2 m)	x to 3.9 ft (1.2 m)	x to 3.9 ft (1.2 m)
Angle of view (horizontal)	73.6° wide zoom; 35.6° telephoto zoom	100° at 50 ft wide zoom; 27° at 39 ft telephoto zoom	100° at 18 ft wide zoom; 27° at 39 ft telephoto zoom
Angle of view (vertical)	53.4° wide zoom; 26.6° telephoto zoom	73° at 51 ft wide zoom; 20° at 45 ft telephoto zoom	73° at 33 ft wide zoom; 20° at 45 ft telephoto zoom
Adjusting angle (pan/tilt/rotation range)	+/-170° +/-75° +/-100°	+180° to -140° +/-75° +/-100°	+180° to -140° +/-75° +/-100°
Power	24 Vac or 12 Vdc operation, autosensing	24 Vac or 12 Vdc operation, autosensing	24 Vac or 12 Vdc operation, autosensing
Certifications	CE class A; FCC class A; UL/cUL listed; C-Tick	CE class A; FCC class A; UL/cUL listed; C-Tick	CE class A; FCC class A; UL/cUL listed; C-Tick

Analog indoor box cameras

Pelco has phased out all existing C10 Series cameras – upgrading the line with the all-new C20 Series analog box cameras. And the C20 Series represents much more than a simple upgrade. At 700 TV lines (TVL), the C20 Series offers the highest resolution, most fully-featured and affordable video security cameras available. These new cameras offer color, day/night, and WDR capabilities typically reserved for much more expensive video security systems.

C20 Series



C20-CH-6(6X)(7X)



C20-DN-6X (7X)(PAL only)



C20-DW-6(6X)(7X)

Image sensor	Sony 1/3-inch EXview HAD CCD II 960H	Sony 1/3-inch EXview HAD CCD II 960H	Sony 1/3-inch EXview HAD CCD II 960H
Signal processing	Sony new digital signal processor, Effio-E™	Sony new digital signal processor, Effio-E	Sony new digital signal processor, Effio-E
Effective pixels (NTSC/PAL)	976 (H) x 494 (V), approx. 480k / 976 (H) x 582 (V), approx. 570k	976 (H) x 582 (V), approx. 570k (PAL only)	976 (H) x 494 (V), approx. 480k / 976 (H) x 582 (V), approx. 570k
Sensing area	3/16 x 1/8-inch (4.7 x 3.5 mm)	1/3 inch - 3/16 x 1/8-inch (4.7 x 3.5 mm)	1/3 inch - 3/16 x 1/8-inch (4.7 x 3.5 mm)
Scanning lines (NTSC/PAL)	525 lines / 625 lines	625 lines / 625 lines	525 lines / 625 lines
Horizontal resolution	650 TVL	650 TVL	650 TVL
Auto iris lens type	DC drive	DC drive	DC drive
Sensitivity	0.25 lux, f/1.2, 30 IRE	Color 0.13 lux, f/1.2, 30 IRE/mono 0.05 lux, f/1.2, 30 IRE	Color 0.13 lux, f/1.2, 30 IRE/mono 0.05 lux, f/1.2, 30 IRE
Signal to noise ratio	48 dB (> 52 dB by parameter adjustment)	48 dB (> 52 dB by parameter adjustment)	49 dB (> 52 dB by parameter adjustment)
Automatic gain control	On/off 35 dB	On/off 35 dB	Off/on up to 36 dB, 16 levels configurable
Backlight compensation	Yes	Yes	Yes
White balance	ATW/push lock/manual/anti-CR/user2/user/push	ATW/push lock/manual/anti-CR/user2/user/push	ATW/push lock/manual/anti-CR/user2/user/push
Color correction	White balance	White balance	White balance
Auto white balance range	2,500° to 9,500°K	2,500° to 9,500°K	2,500° to 9,500°K
Noise reduction DNR 2D	2D	2D	3D
Privacy zones	Yes	Yes	Yes, 15 sizable windows
Motion detection	Yes	Yes	Yes, four areas, sensitivity selectable
Camera titles	Yes	Yes	Yes, up to 20 characters
Power requirement	12 Vdc/24 Vac +10% to -15%, 60 Hz (C20-CH-6); 12 Vdc/24 Vac +10% to -15%, 50 Hz (C20-CH-6X); 220 Vac +10% to -15%, 50 Hz (C20-CH-7X)	12 Vdc/24 Vac +10% to -15%, 50 Hz (C20-DN-6X); 220 Vac +10% to -15%, 50 Hz (C20-DN-7X)	12 Vdc/24 Vac +10% to -15%, 60 Hz (C20-DW-6); 12 Vdc/24 Vac +10% to -15%, 50 Hz (C20-DW-6X); 220 Vac +10% to -15%, 50 Hz (C20-DW-7X)
Power consumption	3.5 W (C20-CH-6/C20-CH-6X); 4W (C20-CH-7X)	4 W (C20-DN-6X); 5W (C20-DN-7X)	4.5 W (C20-DW-6/C20-DW-6X)/ 5.5 W (C20-DW-7X)
Dimensions (includes BNC)	108 x 60 x 55 mm (4.25" L x 2.36" W x 2.17" H)	109 x 60 x 55 mm (4.25" L x 2.36" W x 2.17" H)	109 x 60 x 55 mm (4.25" L x 2.36" W x 2.17" H)
Certifications	CE class B, FCC class B, UL/cUL listed	CE class B	CE class B

Analog environmental/vandal-resistant dome cameras

Featuring SD5 image technology, IS50/IS51 Series Camclosure 2 rugged outdoor domes deliver unmatched performance and reliability at a remarkably affordable price. Camclosure 2 offers you a choice of high-resolution color CCD cameras built into a reliable, easy-to-install system.

IS50/IS51 Camclosure 2



IS50/IS51-DWS Series
SD5 day/night WDR models



IS50/IS51-DN Series
True day/night models






IS50/IS51-CH Series
Color models with simple day/night

Image sensor	1/3-inch interline transfer CCD	1/3-inch interline transfer CCD	1/3-inch interline transfer CCD
Effective pixels (NTSC/PAL)	976 (H) x 494 (V) / 976 (H) x 582 (V)	768 (H) x 494 (V) / 752 (H) x 582 (V)	768 (H) x 494 (V) / 752 (H) x 582 (V)
Scanning area	0.19-inch (H) x 0.14-inch (V) (4.8 x 3.6 mm)	0.19-inch (H) x 0.15-inch (V) (4.9 x 3.7 mm)	0.19-inch (H) x 0.15-inch (V) (4.9 x 3.7 mm)
Scanning system	2:1 interlace	2:1 interlace	2:1 interlace
Scanning lines (NTSC/PAL)	525 lines/625 lines	525 lines/625 lines	525 lines/625 lines
Horizontal resolution	650 TVL, typical (color mode) 700 TVL or more (B-W mode)	540 TVL (color mode, at center) 570 TVL (B-W mode)	540 TVL (at center)
Minimum illumination	0.1 lux (color mode) 0.003 lux (sensitivity up x32) 0.01 lux (B-W mode) 0.0003 lux (sensitivity up x32)	0.06 lux (color mode) 0.05 lux (B-W mode)	0.6 lux (color mode) 0.4 lux (B-W mode)
Dynamic range	54 dB/128X	Adaptive black stretch	Adaptive black stretch
Day/night type	IR filter removal	IR filter removal	Simple
Video output	1.0 Vp-p, NTSC/PAL composite, 75 ohms, BNC connector	1.0 Vp-p, NTSC/PAL composite, 75 ohms, BNC connector	1.0 Vp-p, NTSC/PAL composite, 75 ohms, BNC connector
White balance	Auto tracking white balance/automatic white balance control	Auto tracking white balance/automatic white balance control	Auto tracking white balance/automatic white balance control
Signal to noise ratio	50 dB (equivalent to AGC off, weight on)	50 dB (equivalent to AGC off, weight on)	50 dB (equivalent to AGC off, weight on)
Lens	2X varifocal lens	3.6X varifocal lens	3.6X varifocal lens
Focal length	3.8 ~ 8.0 mm	2.8 ~ 10.0 mm	2.8 ~ 10.0 mm
F number	f/1.4 (wide) to f/1.8 (tele)	f/1.3 (wide) to f/3.1 (tele)	f/1.3 (wide) to f/3.1 (tele)
Focus range	x to 3.9 ft (1.2 m)	x to 3.9 ft (1.2 m)	x to 3.9 ft (1.2 m)
Angle of view (horizontal)	73.6° wide zoom; 35.6° telephoto zoom	100.2° wide zoom; 27.4° telephoto zoom	100.2° wide zoom; 27.4° telephoto zoom
Angle of view (vertical)	53.4° wide zoom; 26.6° telephoto zoom	73.3° wide zoom; 20.3° telephoto zoom	73.3° wide zoom; 20.3° telephoto zoom
Adjusting angle (pan tilt rotation range)	+/-170° +/-75° +/-100°	+180° to -140° +/-75° +/-100°	+180° to -140° +/-75° +/-100°
Power	24 Vac or 12 Vdc operation, autosensing	24 Vac or 12 Vdc operation, autosensing	24 Vac or 12 Vdc operation, autosensing
Certifications	CE class A; FCC class A; UL/cUL listed; C-Tick	CE class A; FCC class A; UL/cUL listed; C-Tick	CE class A; FCC class A; UL/cUL listed; C-Tick

Analog environmental/vandal-resistant domes with IR options

The FD5 Series environmental outdoor fixed domes offer full-featured, high-resolution analog performance at an affordable price. These compact, color CCD fixed dome cameras are available with IR illumination to capture clear images in low-light or no-light conditions. Wall-mount or ceiling-mount ready, these integrated dome cameras are ideal for protecting a wide range of rugged, outdoor environments.

FD5 Series			
	 FD5-V Series Varifocal lens models	 FD5-DV Series true day/night Varifocal lens models	 FD5-IRV Series IR illumination Varifocal lens models
Image sensor	Sony 1/3-inch EXview HAD CCD II 960H	Sony 1/3-inch EXview HAD CCD II 960H	Sony 1/3-inch EXview HAD CCD II 960H
Effective pixels NTSC/PAL	976 (H) x 494 (V) 976 (H) x 582 (V)	977 (H) x 494 (V) 976 (H) x 582 (V)	978 (H) x 494 (V) 976 (H) x 582 (V)
Horizontal resolution	650 TVL	650 TVL	650 TVL
Minimum illumination	f/1.2; 2,850°K; 30 IRE color 0.1 lux mono 0.05 lux	f/1.2; 2,850°K; 30 IRE color 0.1 lux mono 0.04 lux	f/1.2; 2,850°K; 30 IRE color 0.1 lux mono 0.0 lux
Dynamic range	Gamma selectable (ATR)	Gamma selectable (ATR)	Gamma selectable (ATR)
IR illumination distance	--	--	25m
IR sensitivity	--	--	> 40% at 850 nm, peak response
White balance	ATW/manual/push/push lock/user1/user2/anti CR	ATW/manual/push/push lock/user1/user2/anti CR	ATW/manual/push/push lock/user1/user2/anti CR
Lens	Varifocal	Varifocal	Varifocal
F number	f/1.2	f/1.2	f/1.2
Focal length	3.0 to 9.0 mm	2.8 to 10.5 mm	2.8 to 10.5 mm
Focus range	to 0.5 m (1.6 ft)	to 0.3 m (1 ft)	to 0.3 m (1 ft)
Horizontal angle of view	85.3° at 3.0 mm wide zoom; 31.5° at 9.0 mm telephoto zoom	101.8° at 2.8 mm wide zoom; 27.4° at 10.5 mm telephoto zoom	101.8° at 2.8 mm wide zoom; 27.4° at 10.5 mm telephoto zoom
Vertical angle of view	63.8° at 3.0 mm wide zoom; 23.7° at 9.0 mm telephoto zoom	73.7° at 2.8 mm wide zoom; 20.6° at 10.5 mm telephoto zoom	73.7° at 2.8 mm wide zoom; 20.6° at 10.5 mm telephoto zoom
Adjusting angle	±180°	±180°	±180°
Panning range/tilting range	+90° to 0°	+90° to 0°	+55° to 0°
Rotation range	±180°	±180°	±180°
Motion detection	Included (4 areas)	Included (4 areas)	Included (4 areas)
Privacy zones	Included (8 zones)	Included (8 zones)	Included (8 zones)
Camera titles	--	Included	Included
Alarm out	--	1	1
Power requirement (NTSC/PAL)	12 Vdc/24 Vac +10% to -15%, 60 Hz (NTSC) / 12 Vdc/24 Vac +10% to -15%, 50 Hz (PAL)	12 Vdc/24 Vac +10% to -15%, 60 Hz (NTSC) / 12 Vdc/24 Vac +10% to -15%, 50 Hz (PAL)	12 Vdc/24 Vac +10% to -15%, 60 Hz (NTSC) / 12 Vdc/24 Vac +10% to -15%, 50 Hz (PAL)
Power consumption	2.5 W (without heater); 43 (with heater on)	2.5 W (without heater); 43 (with heater on)	4 W (without heater); 47 (with heater on)
Certifications	CE, class B, FCC, class B, UL/cUL listed, meets IP66 standards	CE, class B, FCC, class B, UL/cUL listed, meets IP66 standards	CE, class B, FCC, class B, UL/cUL listed, meets IP66 standards

Analog environmental/vandal-resistant bullet cameras with IR

Offering the most feature-rich, highest-resolution analog performance available with IR capabilities, these new bullet cameras are built for quick, easy setup and years of reliable performance. Choose from a wide selection of long- and short-range IR illumination options and capture clear images in most any low-light or no-light condition.

BU Series



BU4-IRF-4(X)



BU5-IRV12-6(X)








BU6-IRWV50-6(X)

	BU4-IRF-4(X)	BU5-IRV12-6(X)	BU6-IRWV50-6(X)
Image sensor	Sony 1/3-inch Super HAD CCD	Sony 1/3-inch EXview CCD II 960H	Sony 1/3-inch Super HAD CCD II 960H
Signal processing	NextChip DSP	Sony DSP Effio-E	Sony DSP Effio-P
Effective pixels (NTSC/PAL)	768 (H) x 494 (V), approx. 380k / 752 (H) x 582 (V), approx. 440k	976 (H) x 494 (V), approx. 480k / 976 (H) x 582 (V), approx. 570k	976 (H) x 494 (V), approx. 480k / 976 (H) x 582 (V), approx. 570k
Sensing area	5.6 (H) mm x 4.7 (V) mm (0.22 x 0.19 inch)	4.7 (H) mm x 3.5 (V) mm (0.19 x 0.14 inch)	4.7 (H) mm x 3.5 (V) mm (0.19 x 0.14 inch)
Scanning system	2:1 interlace	2:1 interlace	2:1 interlace
Scanning lines (NTSC/PAL)	525 lines / 625 lines	525 lines / 625 lines	525 lines / 625 lines
Scanning frequency (NTSC)	Horizontal, 15.734 kHz Vertical, 59.94 Hz	Horizontal, 15.734 kHz Vertical, 59.94 Hz	Horizontal, 15.734 kHz Vertical, 59.94 Hz
Scanning frequency (PAL)	Horizontal, 15.625 kHz Vertical, 50.00 Hz	Horizontal, 15.625 kHz Vertical, 50.00 Hz	Horizontal, 15.625 kHz Vertical, 50.00 Hz
Synchronization system	Internal	Internal	Internal
Horizontal resolution	540 TVL	650 TVL	650 TVL
Minimum illumination	f/2.0; 2,850°K; 30 IRE	f/2.0; 2,850°K; 30 IRE	f/1.6; 2,850°K; 30 IRE;
Signal to noise ratio	48 dB	48 dB (> 52 dB by parameter adjustment)	48 dB (> 52 dB by parameter adjustment)
IR cut filter	Dual band OLPF	Yes, D/N switch	Yes, D/N switch
IR illumination distance	15 m	25 m	40 m
IR sensitivity	>40% at 850 nm, peak response	>40% at 850 nm, peak response	>40% at 850 nm, peak response
Electronic shutter range (NTSC/PAL)	Auto, 1/60 ~ 1/10,000 sec (NTSC)/ Auto, 1/50 ~ 1/10,000 sec (PAL)	Auto/manual 1/60 ~ 1/10,000 sec (NTSC)/ Auto/ manual 1/50 ~ 1/10,000 sec (PAL)	Auto, 1/60 ~ 1/10,000 sec; manual, 1/60 ~ 1/100,000 sec (NTSC)/auto, 1/50 ~ 1/10,000 sec; manual, 1/50 ~ 1/10,000 sec (PAL)
Video output	1 Vp-p, 75 ohms	1 Vp-p, 75 ohms	1 Vp-p, 75 ohms
Auto white balance range	2,500° to 9,500°K	2,500° to 9,500°K	2,500° to 9,500°K
White balance	ATW/push lock/manual/anti-CR/user2/user/push	ATW/manual/push/push lock/user1/user2/ anti CR	ATW/manual/push/push lock/user1/user2/ anti CR
Noise reduction	2D	2D	3D
Privacy zones	Yes	Yes	Yes
Motion detection	Yes	Yes	Yes
Camera titles	Yes	Yes	Yes
Lens	Fixed	Varifocal	Varifocal
Focal length	3.6 mm	3.3 to 12 mm	6 to 50 mm
F number	f/2.0	f/1.4	f/1.6
Focus range	∞ to 1.2 m (3.9 ft)	∞ to 0.5 m (1.6 ft)	∞ to 1.5 m (4.9 ft)
Angle of view (horizontal)	72°	89.8° wide zoom; 23.9° telephoto zoom	43.9° wide zoom; 5.7° telephoto zoom
Angle of view (vertical)	52°	63.6° wide zoom; 17.9° telephoto zoom	33.2° wide zoom; 4.3° telephoto zoom
Adjusting angle (pan tilt rotation range)	±180° ±90° ±360°	±180° ±90° ±360°	±180° ±90° ±360°
Power requirement (NTSC/PAL)	12 Vdc ±10%, 60 Hz / 12 Vdc ±10%, 50 Hz	12 Vdc/24 Vac +10% to -15%, 60 Hz / 12 Vdc/24 Vac +10% to -15%, 50 Hz	12 Vdc/24 Vac +10% to -15%, 60 Hz / 12 Vdc/24 Vac +10% to -15%, 50 Hz
Power consumption	3 W (IR on, without heater); 8 W (IR on, with heater on)	7 W (IR on, without heater); 50 W (IR on, with heater on)	7.5 W (IR on, without heater); 22.5 W (IR on, with heater on)
Certifications	CE class B, FCC class B, UL/cUL listed, meets IP66 standards	CE class B, FCC class B, UL/cUL listed, meets IP66 standards	CE class B, FCC class B, UL/cUL listed, meets IP66 standards

Analog PTZ cameras





For more than 15 years, Spectra has set the benchmark for PTZ performance and reliability. From the flagship 36X Spectra IV SE to Spectra Mini, to environmental and ruggedized models, there's a Spectra dome to meet nearly any application need.

	Spectra Mini	Spectra IV SL	Spectra IV SE		
					
	SD4* 10X Spectra Mini**	SD423* 23X SL (Standard or environmental)†	SD429* 29X SE (Standard or environmental)†	SD429-H* 29X SE heavy duty†‡	SD429-PSG* 29X SE stainless steel†
Imager/scanning	1/4-inch interline CCD/ 2:1 interlace	1/4-inch EXview HAD CCD/2:1 interlace	1/4-inch EXview HAD CCD/ progressive	1/4-inch EXview HAD CCD/ interlaced/progressive	1/4-inch EXview HAD CCD/ interlaced/progressive
Lens/zoom	F1.8, 4.2mm - 42mm/80X zoom (10X optical, 8X digital)	F1.6, 3.6-82.8mm/276X zoom (23X optical, 12X digital)	F1.4, 3.4-98.1mm/324X zoom (29X optical, 12X digital)	F1.4, 3.4-98.1mm/324X zoom (29X optical, 12X Digital)	F1.4, 3.4-98.1mm/324X zoom (29X optical, 12X digital)
Field of view	5.0° to 46.4°	2.5° to 54°	2.3° to 55.8°	2.3° to 55.8°	2.3° to 55.8°
Day/night	No	Yes	Yes	Yes	Yes
Resolution	470 TVL	540 TVL	540 TVL	540 TVL	540 TVL
Digital slow shutter (DSS)	No	No	Yes	Yes	Yes
Sensitivity	3 lux	35 IRE: 0.65 lux at 1/60 sec (color), 0.15 lux at 1/60 sec (B-W)	35 IRE: 0.55 lux at 1/60 sec (color), 0.018 lux at 1/2 sec (color), 0.00018 lux at 1/2 sec (B-W)	35 IRE: 0.55 lux at 1/60 sec (color), 0.018 lux at 1/2 sec (color), 0.00018 lux at 1/2 sec (B-W)	35 IRE: 0.55 lux at 1/60 sec (color), 0.018 lux at 1/2 sec (color), 0.00018 lux at 1/2 sec (B-W)
Wide dynamic range (WDR)	No	No	Yes	Yes	Yes
Pan/tilt features	360° continuous pan/92° tilt range/ mechanical auto flip	360° continuous pan/92° tilt range/mechanical auto flip	360° continuous pan/92° tilt range/mechanical auto flip	360° continuous pan/92° tilt range/mechanical auto flip	360° continuous pan/92° tilt range/mechanical auto flip
Presets/preset speed/ patterns	64/140° per sec/1	64/400° per sec/1	256/400° per sec/8	256/400° per sec/8	256/400° per sec/8
Window blanking	1 window blank	Up to four, four-sided, user-defined shapes.	Up to eight, four-sided, user-defined shapes.	Up to eight, four-sided, user-defined shapes.	Up to eight, four-sided, user-defined shapes.
Auto-tracking	No	No	Yes	Yes	Yes
Motion detection	No	No	Yes	Yes	Yes
Image stabilization	No	No	No	Yes	Yes
Image enhancement	No	No	No	No	No
Analog data formats	None	Coaxitron, RS-422 (P & D)	Coaxitron, RS-422 (P & D)	Coaxitron, RS-422 (P & D)	Coaxitron, RS-422 (P & D)
Analog output	No	Yes, BNC	Yes, BNC	Yes, BNC	Yes, BNC
Power	18-30 Vac, 24 Vac nominal; 0.75 A, 50/60 Hz nominal	18-32 Vac (24 Vac); 22-27 Vdc (24 Vdc); 23 VA nominal	18-32 Vac (24 Vac); 22-27 Vdc (24 Vdc); 23 VA nominal	18-32 Vac (24 Vac); 22-27 Vdc (24 Vdc); 23 VA nominal	18-32 Vac (24 Vac); 22-27 Vdc (24 Vdc); 23 VA nominal
Certifications	FCC and CE-class B; UL/cUL listed; C-Tick, CCC	FCC and CE-class B; UL/cUL listed; C-Tick, CCC	FCC and CE-class B; UL/cUL listed; C-Tick, CCC	FCC and CE-class B; UL/cUL listed; C-Tick, CCC	FCC and CE-class B; UL/cUL listed; C-Tick, CCC
Warranty	2 Years	3 years	3 years		

* Visit B.O.S.S. 5.0 at pelco.com for complete part numbers. ** IP40 rated † IP66 rated ‡ vandal resistant



Analog PTZ cameras

For more than 15 years, Spectra has set the benchmark for PTZ performance and reliability. From the flagship 36X Spectra IV SE to Spectra Mini, to environmental and ruggedized models, there's a Spectra dome to meet nearly any application need.

Spectra IV SE				
				
	SD436* 36X SE (Standard or environmental)†	SD436-H* 36X SE heavy duty†‡	SD436-PSG* 36X SE stainless steel†	SD4H36* 36X SE horizon†
Imager/scanning	1/4-inch EXview HAD CCD/ interlaced/ progressive	1/4-inch EXview HAD CCD/ interlaced/ progressive	1/4-inch EXview HAD CCD/ interlaced/ progressive	1/4-inch EXview HAD CCD/ interlaced/ progressive
Lens/zoom	f/1.4 (focal length, 3.3 ~ 119 mm) (36X optical, 12X digital)	F1.4, 3.4-119 mm/420X zoom (36X optical, 12X digital)	F1.4, 3.4-119 mm/420X zoom (36X optical, 12X digital)	F1.4, 3.4-119 mm/420X zoom (36X optical, 12X digital)
Field of view	1.7° to 55.8°	1.7° to 55.8°	1.7° to 55.8°	1.7° to 55.8°
Day/night	Yes	Yes	Yes	Yes
Resolution	540 TVL	540 TVL	540 TVL	540 TVL
DSS	Yes	Yes	Yes	Yes
Sensitivity	35 IRE: 0.55 lux at 1/60 sec (color), 0.018 lux at 1/2 sec (color), 0.00018 lux at 1/2 sec (B-W)	35 IRE: 0.55 lux at 1/60 sec (color), 0.018 lux at 1/2 sec (color), 0.00018 lux at 1/2 sec (B-W)	35 IRE: 0.55 lux at 1/60 sec (color), 0.018 lux at 1/2 sec (color), 0.00018 lux at 1/2 sec (B-W)	35 IRE: 0.55 lux at 1/60 sec (color), 0.018 lux at 1/2 sec (color), 0.00018 lux at 1/2 sec (B-W)
WDR	Yes	Yes	Yes	Yes
Proportional pan/tilt	Yes	Yes	Yes	Yes
Pan/tilt features	360° continuous pan/92° tilt range/ mechanical auto flip	360° continuous pan/92° tilt range/ mechanical auto flip	360° continuous pan / 92° tilt range / mechanical auto flip	360° continuous pan / 110° tilt range / mechanical auto flip
Presets/preset speed/ patterns	256/400° per sec/8	256/400° per sec/8	256/400° per sec/8	256/400° per sec/8
Window blanking	Up to eight, four-sided, user-defined shapes.	Up to eight, four-sided, user-defined shapes.	Up to eight, four-sided, user-defined shapes.	Up to eight, four-sided, user-defined shapes.
Auto-tracking	Yes	Yes	Yes	Yes
Motion detection	Yes	Yes	Yes	Yes
Image stabilization	Yes	Yes	Yes	Yes
Image enhancement	Yes	Yes	Yes	Yes
Analog data formats	Coaxitron, RS-422 (P & D)	Coaxitron, RS-422 (P & D)	Coaxitron, RS-422 (P & D)	Coaxitron, RS-422 (P & D)
Analog output	Yes, BNC	Yes, BNC	Yes	Yes, BNC
Power	18-32 Vac (24 Vac); 22-27 Vdc (24 Vdc); 23VA nominal	18-32 Vac (24 Vac); 22-27 Vdc (24 Vdc); 23VA nominal	18-32 Vac (24 Vac); 22-27 Vdc (24 Vdc); 23VA nominal	18-32 Vac (24 Vac); 22-27 Vdc (24 Vdc); 23VA nominal
Certifications	FCC and CE-class B; UL/cUL listed; C-Tick, CCC	FCC and CE-class B; UL/cUL listed; C-Tick, CCC	FCC and CE-class B; UL/cUL listed; C-Tick, CCC	FCC and CE-class B; UL/cUL listed; C-Tick, CCC


Analog specialty pan/tilt cameras

The Esprit™ SE positioning system brings together the very best in enclosure design, pan-and-tilt mechanics, and receiver technologies. This completely integrated package offers responsive, high-speed positioning capabilities, outstanding weather protection, and a level of aesthetics and ease-of-installation that remains unmatched in the industry.

Esprit SE		
		
	36x Esprit SE Standard	36x Esprit SE Pressurized
Imager	1/4-inch EXview HAD CCD	1/4-inch EXview HAD CCD
Processors	1	1
Scanning	Interlaced/progressive	Interlaced/progressive
Lens/zoom	f/1.4, 3.3 ~ 119 mm/432X (36X optical, 12X digital)	f/1.4, 3.3 ~ 119 mm /432X (36X optical, 12X digital)
Field of view	1.7° to 57.2°	1.7° to 57.2°
Day/night	Yes	Yes
Resolution	540 TVL	540 TVL
DSS	Yes	Yes
Sensitivity	35 IRE: 0.55 lux at 1/60 sec (color), 0.018 lux at 1/2 sec (color), 0.00018 lux at 1/2 sec (B-W)	35 IRE: 0.55 lux at 1/60 sec (color), 0.018 lux at 1/2 sec (color), 0.00018 lux at 1/2 sec (B-W)"
WDR	Yes	Yes
Proportional pan/tilt	Yes	Yes
Pan/tilt features	360° continuous/unobstructed +36° to -85°	360° continuous/unobstructed +36° to -85° / mechanical auto flip
Presets/preset speed/patterns	256, 100°/sec, 8	256, 100°/sec, 8
Motion detection	Yes	Yes
Window blanking	8, programmable	8, programmable
Image stabilization	Yes	Yes
Image enhancement	Yes	Yes
Sure Focus™ menu selection	Yes	Yes
Low lux noise reduction	Yes	Yes
Programmable zoom speeds	Yes	Yes
Low light focus/limit selection	Yes	Yes
Power up actions	Yes	Yes
Relay outputs	1	1
Alarm inputs	0	0
Operating temperature range	-50 °F to 122 °F (-45 °C to 50 °C)	-50 °F to 122 °F (-45 °C to 50 °C)
Environmental ratings	IP66	IP66 pan/tilt, optics package meets IP67
Power	24 Vac or 120 to 230 Vac, 50/60 Hz	24 Vac or 120 to 230 Vac, 50/60 Hz
Certifications	CE class B; FCC class B; UL/cUL listed; C-Tick	CE class B; FCC class B; UL/cUL listed; C-Tick
Warranty	3 years	3 years

Visit B.O.S.S. 5.1 at www.pelco.com for complete part numbers.

The ideal choice for hazardous location installations, ExSite™ explosion-proof camera systems deliver the high-quality video demanded in the harshest conditions imaginable.

ExSite	
	
	36x ExSite Explosion-proof pan/tilt and fixed
Imager	1/4-inch EXview HAD CCD
Processors	1
Scanning	Interlaced/progressive
Lens/zoom	f/1.4, 3.3 ~ 119 mm/128X (36X optical, 12X digital)
Field of view	1.7° to 57.2°
Day/night	Yes
Resolution	540 TVL
DSS	Yes
Sensitivity	35 IRE: 0.55 lux at 1/60 sec (color), 0.018 lux at 1/2 sec (color), 0.00018 lux at 1/2 sec (B-W)
WDR	Yes
Proportional pan/tilt	Yes
Pan/tilt features	200° pan (manual)/180° tilt
Presets/preset speed/patterns	256, 100°/sec, 8
Motion detection	Yes
Window blanking	8, programmable
Image stabilization	Yes
Image enhancement	Yes
Sure Focus™ menu selection	Yes
Low lux noise reduction	Yes
Programmable zoom speeds	Yes
Low light focus/limit selection	Yes
Power up actions	Yes
Relay outputs	3
Alarm inputs	7
Operating temperature range	-76 °F to 140 °F (-60 °C to 60 °C)
Environmental ratings	IP66
Power	24 Vac or 100 to 240 Vac, 50/60 Hz
Certifications	DEMKO 04 ATEX 0413858X 0539 II 2 G Ex d IIC, T5 II 2 D Ex tD A21 IP66 T105 °C
Warranty	3 years

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Digital video recorders

DX Series DVRs are the ideal choice for affordable, efficient entry into full-featured video storage management. With support for four to 16 analog cameras, 120 to 480 ips and storage from 250 GB to 8 TB, these systems are designed for easy use out of the box. Customers can connect Pelco DVRs and HVRs by using DS ControlPoint or the new DX Series client.

	DX4100	DX4700	DX4800
			
GENERAL			
Analog camera inputs	4	8, 16	8, 16
Looping	Yes	Yes	Yes
IP camera inputs	None	2 Mpx	2 Mpx
Maximum record rate D1/4CIF	30 ips NTSC, 25 ips PAL (4CIF)	120 ips NTSC, 96 ips PAL (4CIF)	480 ips NTSC, 400 ips PAL (4CIF)
Compression technology	H.264	H.264	H.264
Hard drive options, internal	250 GB – 2 TB, 1 TB with ODD	250 GB – 8 TB	250 GB – 8 TB
Optical disk drive	None	DVD-RW	DVD-RW
RAID Storage	No	No	No
Alarm inputs/relay outputs	4/1	8 or 16/4	8 or 16/4
Audio inputs/outputs	4/1	2 or 4/2	4/2
PTZ control	RS-422	Coaxitron, RS-422	Coaxitron, RS-422
Front panel controls	Yes	Yes	Yes
IR remote control	Yes	Yes	Yes
Multilingual support	Yes	Yes	Yes
System compatibility	DX Series client, DS ControlPoint	DX Series client, DS ControlPoint, DX Mobile App	DX Series client, DS ControlPoint, DX Mobile App
DISPLAY OPTIONS			
Monitor outputs	1 main - VGA or BNC switch-selectable; 1 spot BNC, single-channel view	1 main - VGA or BNC; composite	1 Main - VGA or BNC; composite
Camera display	Main - 1, 4	1, 4, 6, 8, 9,16	1, 4, 6, 8, 9,16
Digital zoom live/playback	No/no	No	No
FUNCTION			
Alarm, motion, continuous, scheduled recording modes	Yes	Yes, including ATM/POS	Yes, including ATM/POS
Increased record rate on alarm/motion ("bump on alarm")	Yes	Yes	Yes
Pre alarm/post alarm	Off, 5, 10, 20, 30, 40, 50, 60 sec/10, 20, 30, 40, 50 sec, 1, 2, 3, 5, 10 min	1 minute/10 minutes	1 minute/10 minutes
Video analytics	No	No	No
REMOTE CLIENT			
DX Mobile App (iPhone®, iPad®, Android™)	No	Yes	Yes
PC remote client	Yes	Yes	Yes
View live	Yes	Yes	Yes
Playback	Yes	Yes	Yes
PTZ control	Yes	Yes	Yes
Web browser	Live view	Live view	Live view
Microsoft® Windows® support	Windows® 7, Windows Vista®, Windows XP Pro® (with ControlPoint or DX Series client)	Windows 7, Windows Vista, Windows XP Pro (with ControlPoint or DX Series client)	Windows 7, Windows Vista, Windows XP Pro (with ControlPoint or DX Series client)

Hybrid video recorders

DX HVRs meet the demands of customers migrating to IP video while leveraging their existing analog video surveillance infrastructure. With support for eight to 32 analog cameras, plus eight IP megapixel cameras (DX4700HD/DX4800HD), and storage from 250 GB to 8 TB, these easy-to-use systems are ready to record out of the box.

	DX4700HD	DX4800HD	DX8100
			
GENERAL			
Analog camera inputs	8, 16	8, 16	8, 16, 24, 32
Looping	Yes	Yes	Yes
IP camera inputs	Up to 8 Mpx	Up to 8 Mpx	Up to 24 or 32 Mpx depending on system resources (IP licenses included)
Maximum record rate D1/4CIF	120 ips NTSC, 96 ips PAL (D1)	480 ips NTSC, 400 ips PAL (D1)	120 ips NTSC, 100 ips PAL (4CIF)
Compression technology	H.264 main profile	H.264 main profile	Pelco
Hard drive options, internal	250 GB – 8 TB	250 GB – 8 TB	250 GB – 8 TB
Optical disk drive	DVD-RW	DVD-RW	DVD-RW
Alarm inputs/relay outputs	8 or 16/2	8 or 16/4	8, 16, 24, 32/8, 16, 24
Audio inputs/outputs	2/2	4/2	2 standard 8, 16, 24, 32 optional/1
PTZ control	Yes	Yes	Coaxitron, RS-422
Front panel controls	Yes	Yes	No
IR remote control	Yes	Yes	No
Multilingual support	Yes	Yes	Yes
System compatibility	DX Series client, DS ControlPoint, DX Mobile App	DX Series client, DS ControlPoint, DX Mobile App	DX Series client, DS ControlPoint
DISPLAY OPTIONS			
Monitor outputs	1 main – VGA or BNC; composite	1 main – VGA or BNC; composite	1 main – VGA; dual display – VGA or BNC; composite BNC – 1 with 8/16; 2 with 24/32
Camera display	1, 4, 6, 8, 9,16, 25	1, 4, 6, 8, 9,16, 25	1, 4, 9, 10, 16, 25, 36, 1+5, 2+8, 1+23
Digital zoom live/playback	No	No	Yes/yes
FUNCTION			
Alarm, motion, continuous, scheduled recording modes	Yes, including ATM/POS	Yes, including ATM/POS	Yes, including ATM/POS
Increased record rate on alarm/motion ("bump on alarm")	Yes	Yes	Yes
Pre alarm/post alarm	1 minute/10 minutes	1 minute/10 minutes	1 minute standard; 15 minutes with memory upgrade/1 minute standard; 15 minutes with memory upgrade
REMOTE CLIENT			
DX Mobile App (iPhone, iPad, Android)	Yes	Yes	No
PC remote client	Yes	Yes	Yes
View live	Yes	Yes	Yes
Playback	Yes	Yes	Yes
PTZ control	Yes	Yes	Yes
Web browser	Live view, PTZ	Live view, PTZ	Live view, PTZ
Microsoft Windows support	Windows 2000®, Windows XP® (SP3), Windows Vista, or Windows 7, and Windows DirectX® 9.1 (or later)	Windows 2000, Windows XP (SP3), Windows Vista, or Windows 7, and Windows DirectX 9.1 (or later)	Windows 7, Windows Vista, Windows XP Pro (with ControlPoint or DX Series client)

Video management solutions

With full-featured DSNVs video management software, a robust DSSRV network video recorder (NVR), analog camera support via optional direct-attached or network video encoders, multisite monitoring, and support for third-party IP cameras, Digital Sentry™ is a flexible video management system (VMS) for mainstream security applications.

DSSRV



GENERAL

Analog camera inputs	16,32,48 or 64 via ENC5416
IP video inputs	Up to 128*
Number of Included IP Licenses	8 included. Additional license fee may apply
Megapixel support	Up to 10 Mpx
Compression technology	H.264, MJPEG and MPEG-4, depending on IP camera.
Operating system	Windows 7 Ultimate®
Hard drive options, internal	500 GB, 3, 6, 9 12, 15, 18 TB (to 12 TB with ODD)
Hard drive options, external	SCSI, USB or NAS
Optical disk drive	DVD+/-RW with DSSRV-DVD models
RAID storage	Optional with RAID 5 controller add-on or RAID 5 model
Alarm inputs/relay outputs	Pelco analytics for IP camera alarm inputs; see ENC5416 for analog alarms in/relays out
Audio inputs/outputs	Supports Sarix IP audio; see ENC5416 for analog audio recording
PTZ control	IP and analog supported
Multilingual support	Yes
System compatibility	DS ControlPoint to DS and DX systems

DISPLAY OPTIONS

Monitor outputs	Based on configuration of client PC. Up to 6 monitors with appropriate graphics card.
Camera views	22 layouts, from 1 to 36 cameras

FUNCTION

Alarm, motion, continuous, scheduled recording modes	Yes
Pre Alarm/Post Alarm	5 Minutes/16 Minutes
REMOTE CLIENT	
PC remote client	Yes
View live	Yes
Playback	Yes
Email on alarm	Yes
PTZ control	Yes
Remote administration	Yes
Mobile client	Yes
Microsoft Windows support	Windows 7, Windows Vista, Windows Server® 2003, Windows Server 2008

* The database limitation for DSNVs is 128 cameras. The actual number of camera supported depends on recording settings, client connections, and bandwidth capacity.

DSSRV options



ENC5416 analog encoder

GENERAL

Video resolutions	D1, 2CIF, CIF, QCIF
Frame rate	D1 480 NTSC/400 PAL, independently configurable
Alarm inputs	16 per ENC5416, 64 maximum per DSSRV
Relay outputs	4 per ENC5416, 16 maximum per DSSRV
Audio inputs	16 per ENC5416, 64 maximum per DSSRV
Compression format	H.264 main profile
Analog output	4 BNC connectors for spot monitor
PTZ control interface	2 RS-422, RS-485
PTZ/Protocols	Pelco D and 3rd-party
Rack mount	2 mounting brackets included, connection interface to NVR: direct attached via HDMI cable

Software-only VMS solution

This software-only solution is ideal when the preference is for corporate hardware, maximizing existing purchase and support agreements. Support for ONVIF™ and a wide range of third-party IP cameras and encoders make Digital Sentry a flexible VMS solution for mainstream security applications.

DSNVs



Maximum IP video inputs	Up to 128*
3rd party camera supported	IP drivers and ONVIF**
Camera license fees	4 included; additional license fees apply
Megapixel support	Up to 10 Mpx
Maximum # of clients	No hard specifications; dependent on system resources and bandwidth availability
Export formats	H.264, MPEG-4, MPEG, JPEG, AVI, Native DB
Alarm pop up notifications	✓
Search tools	Date/time/events/motion/scrub bar/Pelco analytic alarms, thumbnail
Archive video recording	Via archive utility
3rd party integrations	Via Pelco API
Compatibility via ControlPoint	DS systems including legacy DVX Master Control Series, Pelco DX 4100, 4500/4600, 4700/4800, 4700HD/4800HD, DX8000/8100
Operating systems	Windows 7, Windows Vista, Windows XP, Windows Server 2003, Windows Server 2008
Mobile app	Yes

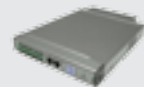
* 128 is the database limitation. Actual number is dependent on hardware specifications and camera settings.

** See Document C1024RN-x "DS Compatibility Release Notes" on www.pelco.com.

Network video encoders

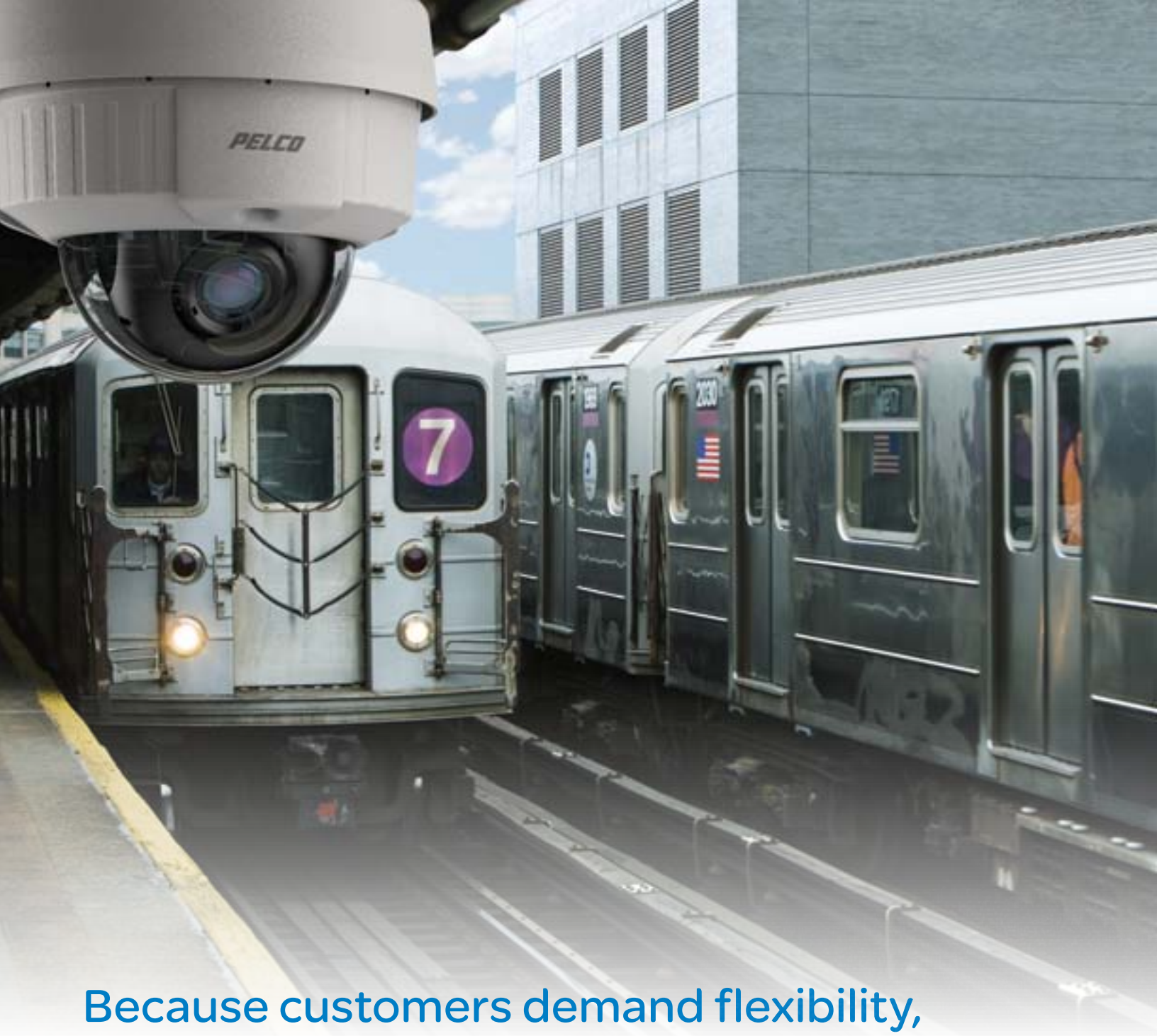
This family of H.264 network video encoders provides high-performance, single- to multi-channel video encoding, integrating analog cameras and positioning systems into an IP video surveillance system.

NET5400 Encoder



NET5401, NET5402, NET5404

Video resolutions	4CIF, 2CIF, CIF, QCIF
Frame rate	25/30 fps at 4CIF maximum, scalable
Motion detection	Yes
Video analytics	Yes
Alarm inputs	3
Relay outputs	1
Onboard memory	User-supplied Micro SD
Operating temperature range	Minimum of 32 °F (0 °C), maximum 122 °F (50 °C)
Compression formats	MJPEG, H.264 (base, main, and high profile)
Data rate	20 kbit/s – 6 Mbit/s (2 Mbit/s per stream 16x 3x)
Video streams	3
Audio	2-way, full-or half-duplex
Analog data formats	No
Analog output	Looping on single and dual channel
Network protocols	TCP/IP, UDP/IP (unicast, multicast IGMP), UPnP, DNS, DHCP, RTP, NTP
Video signing at source	Yes
Web browser access	Yes
Open architecture	Yes, compatible with Pelco API
Pelco system compatibility	Endura, DS



Because customers demand flexibility,
all Pelco video products are designed with
open and integrated solutions in mind.

For more information, please visit our PartnerFIRST
site at www.pelco.com keyword "partner first"



Matrix systems and controls

Pelco CM6700 and CM6800 Series matrix switchers offer an ideal analog matrix switching solution for 16 to 96 cameras, bringing large-matrix performance in reach of smaller installations.

Matrix switcher/controller			
			
CM6700 Series		CM6800 Series	
		CM6800E Series	
GENERAL			
Video inputs	16	32	40
Video outputs	4	6	8
Switching time	16 ms	16 ms	16 ms
Keyboard capacity	8	10	18
Receiver/dome control	Coaxitron and RS-422	Coaxitron and RS-422	Coaxitron and RS-422
Alarm inputs	18, programmable	8, programmable; 128, via alarm interface units, providing a total of 136 possible	[CM6800E-48X8] 8, programmable; [96 x 16 system external] 16 total (8, programmable, 4 via alarm interface units)
Alarm relay outputs	One, SPDT	One, SPDT	Two, SPDT
Rating	0.5 amp at 125 Vac	0.5 amp at 125 Vac, 1 amp at 30 Vdc, 60 milliohms contact resistance	2; 0.5 amp at 125 Vac, 1 amp at 30 Vdc, 60 milliohms contact resistance;
Open collector outputs	2, TTL; 32 Vdc max, 25 mA max	1; 15 Vdc max, 25 mA max	1; 15 Vdc max, 25 mA max
General purpose outputs	None	2 relay interface units	4 relay interface units
Communication ports	2	6 total (5 data, 1 PTZ control, 1 data powered for keyboards)	10 total (8 data, 2 PTZ control; 2 data powered for keyboards)
Ambient operating temperature	20 °F to 120 °F (-7 °C to 49 °C)	20 °F to 120 °F (-7 °C to 49 °C)	20 °F to 120 °F (-7 °C to 49 °C)
Multilanguage menus	Yes	Yes	Yes
Windows based manager software	Yes	Yes	Yes
ELECTRICAL			
Power source	120 V or 230 V, 50/60 Hz	120 Vac or 230 Vac, 50/60 Hz, auto-ranging	120 Vac or 230 Vac, 50/60 Hz, auto-ranging
Power consumption	10 W	25 W	[CM6800E-48X8] 25 W; [96 x 16 System] 50 W
VIDEO			
Bandwidth	15 MHz	15 MHz	16 MHz
Signal to noise ratio	-60 dB (peak-to-peak vs. RMS noise)	-44.26 dB (peak-to-peak vs. RMS noise)	-44.26 dB (peak-to-peak vs. RMS noise)
Adjacent channel crosstalk	-49.6 dB at 3.58 MHz	-56.47 dB at 3.58 MHz	-56.47 dB at 3.58 MHz
Differential gain/phase	1.03% / 1.02°	0.11% / 0.06°	0.11% / 0.06°
Differential phase	N/A	N/A	N/A
Line tilt/field tilt	0.6%/1.2%	0.2%/0.56%	0.2%/0.56%
MECHANICAL			
Dimensions			
Switcher/matrix bay	3.5" H x 17" W x 10.5" D (8.89 x 43.18 x 26.67 cm)	12.25" D x 17.40" W x 5.25" H (31.12 x 44.20 x 13.34 cm)	12.25" D x 17.40" W x 5.25" H (31.12 x 44.20 x 13.34 cm)
Rack mountable	Yes (2 RU)	Yes (3 RU)	Yes (3 RU)
Certifications/ratings	CE compliant; UL/cUL listed; FCC class A; meets NEMA® Type 1 standards	CE class B; UL/cUL listed; FCC class B	CE class B; CE class A; FCC class B; FCC class A; UL/cUL listed

Matrix systems and controls

Pelco matrix switchers offer unmatched analog switching performance for the largest installations, with support for thousands of cameras and hundreds of monitors. Expanded monitor capacity in the matrix bay allows implementation of larger systems with a smaller footprint (less hardware) than other matrix systems.

Matrix system		
		
CM9765 Series	CM9770 Series	CM9780 Series


CENTRAL PROCESSING UNIT			
ELECTRIC			
Input voltage	120 Vac, 60 Hz or 230 Vac, 50 Hz, autoranging	120 Vac, 60 Hz or 230 Vac, 50 Hz, autoranging	121 Vac, 60 Hz or 230 Vac, 50 Hz, autoranging
Power consumption	57 W	57 W	57 W
Diagnostic monitor output	1 VGA	1 VGA	1 VGA
I/O port	16 RS-422 ports (expandable to 120); 2 RS-232 ports	16 RS-422 ports (expandable to 32); total system capability is 120 ports/2 RS-232 ports/1 parallel printer port/1 VGA output port/2 PC-AT compatible printer port/1 VGA output port/2 PC-AT compatible keyboard ports	16 RS-422 ports (expandable to 32); total system capability is 120 ports/2 RS-232 ports/1 parallel keyboard ports
GENERAL			
Operating temperature	32 °F to 120 °F (0 °C to 49 °C)	32 °F to 120 °F (0 °C to 49 °C)	32 °F to 120 °F (0 °C to 49 °C)
Rack mountable	Yes	Yes	Yes
Certifications/ratings	CE class A; FCC class A; UL/cUL listed	CE class A; FCC class A; UL/cUL listed; C-Tick	CE class A; FCC class A; UL/cUL listed; C-Tick
SWITCHER/MATRIX SWITCHING BAY			
GENERAL			
Video inputs	2,048 (up to 256 inputs per bay)	2,048 (up to 256 inputs per bay)	4,096 (up to 512 inputs per bay)
Video outputs	512 (up to 16 outputs per bay)	512 (up to 32 outputs per bay)	512 (up to 32 outputs per bay)
Switching time	16 ms	16 ms	16 ms
Ambient operating temperature	32 °F to 122 °F (0 °C to 50 °C), non-condensing	32 °F to 122 °F (0 °C to 50 °C), non-condensing	32 °F to 122 °F (0 °C to 50 °C), non-condensing
Multilanguage menus	Yes	Yes	Yes
Windows based manager software	Yes	Yes	Yes
Macro programming	Yes	Yes	Yes
Video loss detection included	Yes	Yes	Yes
ELECTRICAL			
Power source	100 to 240 Vac, 50/60 Hz, autoranging	100 to 240 Vac, 50/60 Hz, autoranging	100 to 240 Vac, 50/60 Hz, autoranging
Power consumption	60 W maximum (fully populated)	60 W maximum (fully populated)	60 W maximum (fully populated)
VIDEO			
Bandwidth	15 MHz	15 MHz	15 MHz
Signal to noise ratio	-70.5 dB	-70.5 dB	-70.5 dB
Adjacent channel crosstalk	-60.9 dB at 3.58 MHz	-60.9 dB at 3.58 MHz	-60.9 dB at 3.58 MHz
Differential gain/phase	0.51%	0.51%	0.51%
Differential phase	0.38°	0.38°	0.38°
Line tilt/field tilt	0.40%/0.59%	0.40%/0.59%	0.40%/0.59%
MECHANICAL			
Rack mountable	Yes (matrix bay: 6 RUs; mounting baffle: 1RU)	Yes (matrix bay: 6 RUs; mounting baffle: 1RU)	Yes (matrix bay: 6 RUs; mounting baffle: 1RU)
Certifications/ratings	CE class A; FCC class A; UL/cUL listed	CE class A; FCC class A; UL/cUL listed; C-Tick	CE class A; FCC class A; UL/cUL listed; C-Tick





From standalone DVRs with a few cameras for small installations to large matrix systems with thousands of cameras, Pelco video security systems protect people and property in a million places around the world.

Monitors

With a unique industry understanding, Pelco by Schneider Electric specifically designs monitors to meet the demands of video security professionals. This includes maximum reliability and power efficiency for around-the-clock usage, and the high-quality highly detailed images necessary for making security decisions.

300 Series desktop		400 Series desktop	
			
PMCL317B and PMCL319BL		PMCL417HB and PMCL419HB	
GENERAL			
Native resolution	1280 x 1024	1280 x 1024	
Brightness	250 nit	350 nit	
Contrast ratio	1000:1	1000:4	
Response time	5 ms	5 ms	
Panel life	50K Hours	50K Hours	
Viewing angle	160/160	160/160	
Aspect ratio	5:4	5:4	
ELECTRICAL			
Power consumption	< 50 W	< 50 W	
Input voltage	100 to 240 Vac, 50/60 Hz	100 to 240 Vac, 50/60 Hz	
Video input	1 BNC, looping; 1 S-video, looping; 1 RGB; 1 DVI	2 BNC, looping; 1 S-video, looping; 1 RGB; 1 DVI	
ENVIRONMENTAL			
Operating temperature	32 °F - 104 °F (0 °C - 40 °C)	32 °F - 104 °F (0 °C - 40 °C)	
Operating humidity	20% - 80% non-condensing	20% - 80% non-condensing	
PHYSICAL			
Unit weight	10.8 lbs (17"), 12.6 lbs (19")	10.8 lbs (17"), 12.6 lbs (19")	
Shipping weight	16 lbs (17"), 18 lbs (19")	16 lbs (17") 18 lbs (19")	
RECOMMENDED MOUNTS			
Wall mount	PMCL-WM, PMCL-WMT, PMCL-WM1A,	PMCL-WM, PMCL-WMT, PMCL-WM1A,	
Ceiling mount	PMCL-CM, PMCL-CMP	PMCL-CM, PMCL-CMP	
Rack mount	PMCL-17ARM, PMCL-19ARM	PMCL-17ARM, PMCL-19ARM	
Certifications	CE class B; FCC class B; UL/cUL listed; C-Tick; S-Mark; CCC	CE class B; FCC class B; UL/cUL listed; C-Tick; S-Mark; CCC	
Warranty	3 years	3 years	





500 Series desktop		500 Series large format	
			
PMCL524BL		PMCL532BL, PMCL42BL, PMCL46BL, and PMCL55BL	
GENERAL			
Native resolution	1920 x 1080	1920 x 1080	
Brightness	250 nit	500 nit (Typical)	
Contrast ratio	1000:1	3000:1 (32"), 4000:1 (42", 46", 55")	
Response time	5 ms	6.5 ms (typical)	
Panel life	30K hours	50K hours	
Viewing angle	170/160	178/178	
Aspect ratio	16:9	16:9	
ELECTRICAL			
Power consumption	< 60 W	120 W (32"), 150 W (42"), 160 W (46"), < 170 W (55")	
Input voltage	100 to 240 Vac, 50/60 Hz	100 to 240 Vac, 50/60 Hz	
Video input	1 BNC, looping; 1 S-video, looping; 1 RGB; 1 DVI; 1 HDMI	1 S-video; 1 component video; 1 video in, 1 video out; 1 display port*; 1 HDMI; 1 DVI in; 1 VGA out, 1 VGA in (*Not available on PMCL532BL)	
ENVIRONMENTAL			
Operating temperature	32 °F - 104 °F (0 °C - 40 °C)	32 °F - 104 °F (0 °C - 40 °C)	
Operating humidity	10% - 90% non-condensing	20% - 80% non-condensing	
PHYSICAL			
Unit weight	11.0 lbs	27.6 lbs (32"), 44.1 lbs (42"), 50.0 lbs (46"), 66.6 lbs (56")	
Shipping weight	20.1 lbs	35.7 lbs (32"), 62.0 lbs (42"), 67.2 lbs (46"), 87.3 lbs (56")	
RECOMMENDED MOUNTS			
Wall mount	PMCL-WM, PMCL-WMT, PMCL-WM1A	PMCLNBWMT (tilt), PMCLNBWMF (fixed), PMCLNBWMS (arm)	
Ceiling mount	PMCL-CM, PMCL-CMP	PMCL-CM, PMCL-CMP (32" only)	
Rack mount	N/A	N/A	
Certifications	CE class B; FCC class B; UL/cUL listed; C-Tick; CCC; GOST-R; NOM;	CE class B; FCC class B; UL/cUL listed; C-Tick; CCC; GOST-R; NOM; ENERGY STAR® level 5.1 compliant	
Warranty	3 years	3 years	

Accessories: Enclosures

With convenient IP-centric-available features such as built-in PoE camera power, and megapixel-optimized front windows, these new additions to the Pelco enclosure family will help protect camera investments today and well into the future.

Environmental enclosures				
	 EH1512	 EH2500	 EH3508	 EH3512/EH3515
Maximum camera size*	22.86 L x 7.92 W x 7.62 H cm (9" x 3.12" x 3")	13.34 L (up to 33.66 L cm) x 6.99 W x 6.99 H cm [5.25" (up to 13.25") x 2.75" x 2.75"]	12.7 L (up to 17.27 L cm) x 7.28 W x 7.62 H cm [5" (up to 6.8") x 2.87" x 3"]	22.86 L (up to 33.66 L cm) x 7.28 W x 7.62 H cm [10.25" (up to 13.25") x 2.87" x 3"]
Viewing window	3 mm thick scratch resistant Lexan®	0.95 mm thick Lexan®	4.7 mm thick Lexan®	4.76 mm thick Lexan®
Cable entry	1 x PG9 and 1 PG11 compression gland on bottom	Two adjustable 1/2-NPT liquid tight glands on back	Two PG13.5 compression glands on bottom	Two PG13.5 compression glands on bottom
Lid fastening	3 allen-head screws	Two captive screws	Link-lock no. 3 can be secured with a padlock (not supplied)	Link-lock no. 3 stainless steel can be secured with a padlock (not supplied)
Environment	IP66 and NEMA Type 4X	IP66 and NEMA Type 4	IP66 and NEMA Type 4	IP66 and NEMA Type 4
Power input	24 Vac; 120 Vac and 230 Vac	24 Vac; 120 Vac and 230 Vac for heater	24 Vac; 120 Vac and 230 Vac @ 50/60 Hz	24 Vac; 120 Vac and 230 Vac
Heater/defroster/blower	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes
Certifications	CE/UL/cUL	CE/UL/cUL	CE/UL/cUL	CE/UL/cUL

*Accepts camera and lens combinations (assumes lens is fully extended)





General purpose enclosures				
	 EH4700 Outdoor, medium	 EH5700 Outdoor, large	 EH8100 Pressurized	 EHX'E Explosion proof
Maximum camera size*	33.02 L (up to 53.34 L cm) x 12.07 W x 10.795 H cm [13" (up to 21") x 5.5" x 4.25"]	39.37 L (up to 71.12 L cm) x 15.88 W x 13.97 H cm [15.5" (up to 28") x 6.25" x 5.5"]	35.56 L (up to 45.72 L cm) x 6.35 W x 6.35 H cm [14" (up to 18") x 2.5" x 2.5"]	6.990 H to 14.6 x 8.57 to 13.20 W x 7.62 to 60.96 H cm (2.750 to 5.75 cm x 3.375 to 5.125 x 12 to 24 cm)
Viewing window	6.35 mm thick Lexan®	6.35 mm thick glass	5.715 mm thick tempered glass	Fully tempered plate glass 10.8/11.43/14.92 cm, depending on model
Cable entry	Two PG13.5 compression glands on bottom	Two PG13.5 UL glands on bottom	16-pin receptical with jam nut connects to MS connector	2 explosion-proof sealable fittings
Lid fastening	Link-lock no. 3 stainless steel can be secured with a padlock (not supplied)	Link-lock no. 3 stainless steel can be secured with a padlock (not supplied)	Sealed and pressurized	Sealed
Environment	NEMA Type 3R	NEMA Type 3R	IP67 and NEMA Type 6	Explosion proof and marine
Power input	24 Vac; 120 Vac and 230 Vac @ 50/60 Hz	24 Vac; 120 Vac and 230 Vac @ 50/60 Hz	120/230 Vac	24 Vac; 120 Vac and 230 Vac
Heater/defroster/blower/wiper	Yes/Yes/Yes/No	Yes/Yes/Yes/Yes	Yes/Yes/Yes/No	Yes/Yes/Yes/No
Certifications	CE/UL/C-tick	CE/UL/C-tick	CE/UL/cUL	CE/UL/cUL

*Accepts camera and lens combinations (assumes lens is fully extended)

Accessories: Enclosures




With convenient IP-centric-available features such as built-in PoE camera power, and megapixel-optimized front windows, these new additions to the Pelco enclosure family will help protect camera investments today and well into the future.

Fortified enclosures systems

	 FH-H1 Series High temperature	 FH-L1 Series Low temperature	 FH-M1 Series High humidity	 FH-S1 Series Solar powered
Maximum camera size*	Analog or IP camera and lens included 136 H x 79 L x 76 W mm (5.4" x 3.12" x 3")	Analog or IP camera and lens included 136 H x 79 L x 76 W mm (5.4" x 3.12" x 3")	Analog or IP camera and lens included 136 H x 79 L x 76 W mm (5.4" x 3.12" x 3")	Analog or IP camera and lens included 136 H x 79 L x 76 W mm (5.4" x 3.12" x 3")
Viewing window	6.35 mm thick Lexan®	6.35 mm thick Lexan®	6.35 mm thick Lexan®	6.35 mm thick Lexan®
Cable entry	Wiring and mount arm factory installed	Wiring and mount arm factory installed	Wiring and mount arm factory installed	Wiring and mount arm factory installed
Environment	IP66	IP66	IP66	IP66
Vandal	IK10	IK10	IK10	IK10
Power input	24 Vac; 120 Vac and 230 Vac	24 Vac; 120 Vac and 230 Vac	24 Vac; 120 Vac and 230 Vac	24 Vac; 120 Vac and 230 Vac
Heater/defroster/blower	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes
Hinged lid	Yes	Yes	Yes	Yes
Certifications	CE / UL / cUL	CE / UL / cUL	CE / UL / cUL	CE / UL / cUL
Fiber optic media converter	Optional	Optional	Optional	Optional

*Complete camera, lens, housing system included

High security enclosures

	 HS1500 Ceiling/wall mount	 HS2100 Low profile wedge	 HS3000 Corner mount
Maximum camera size*	10.16 L x 10.16 W x 20.32 W cm (4.0" x 4.0" x 8.0")	7.62 L x 10.16 W x 25.4 W cm (3.0" x 4.0" x 10.0")	9.53 L x 8.25 W x 22.86 W cm (3.75" x 3.25" x 9.0")
Viewing window	12.7 mm thick Lexan®	12.7 mm thick Lexan®	Smoked 6.35 mm thick Lexan®
Cable entry	Access through back and top	Two conduit knock outs on upper back box	Three 1.27cm cable knock-out holes
Environment	Indoor NEMA Type 1	Indoor NEMA Type 1	Indoor
Power input	NA	NA	24 Vac/110 Vac for heater
Vandal	Tamper switch/vandal resistant	Tamper-resistant screw	Tamper switch/vandal resistant
Heater/defroster/blower	Yes/No/Yes	No/No/No	Yes/No/No
Certifications	UL	NA	UL

*Accepts camera and lens combinations (assumes lens is fully extended)

Accessories: PoE Midspan

Powering the next generation IP security networks requires standardized power sources designed to protect sensitive edge devices and cameras. These Power over Ethernet midspans are engineered to provide the highest level of protection with standardized IEEE power sources and network management tools to manage IP assets remotely.

PoE midspans					
					
	1 Single channel	4 Channel	8 Channel	16 Channel	1 Single channel
Number of channels	1	4	8	16	1
Data rate	10/100/1000 Base T	10/100/1000 Base T	10/100/1000 Base T	10/100/1000 Base T	10/100/1000 Base T
Maximum power output	30W	134W	269W	538W	19W
Power input	AC 90 to 264 Vac with frequency range 47 to 63 Hz.	AC 90 to 264 Vac with frequency range 47 to 63 Hz.	AC 90 to 264 Vac with frequency range 47 to 63 Hz.	AC 90 to 264 Vac with frequency range 47 to 63 Hz.	33.4W
Operating temperature	32° F – 104° F (0° C – 40° C)	32° F – 104° F (0° C – 40° C)	32° F – 104° F (0° C – 40° C)	32° F – 104° F (0° C – 40° C)	32° F – 131° F (0° C – 55° C) @ 10 MB and 100 MB rates; 32° F – 104° F (0° C – 40° C) @ GB rates
LED indicators	Power on/fault detection	Power on/fault detection	Power on/fault detection	Power on/fault detection	Power on/fault detection
IEEE 802.3 at compliance	Fully compliant detection, disconnect, over voltage and current protection	Fully compliant detection, disconnect, over voltage and current protection	Fully compliant detection, disconnect, over voltage and current protection	Fully compliant detection, disconnect, over voltage and current protection	Fully compliant detection, disconnect, over voltage and current protection
Power connector	US power cord or EU power cord	US power cord or EU power cord	US power cord or EU power cord	US power cord or EU power cord	US power cord or EU power cord
Mounting	Desktop	Desktop with optional rack mount	Rack mount	Rack mount	Desktop and ears for wallmounting
Network management	NA	Web interface and SNMP management	Web interface and SNMP management	Web interface and SNMP management	NA
Certifications	UL/cUL/CE/ FCC	UL/cUL/CE/ FCC	UL/cUL/CE/ FCC	UL/cUL/CE/ FCC	CE





Accessories: IR Illuminators

For low-light scenes, proper illumination makes the difference between usable and non-usable video. For increased megapixel camera performance in low light situations, and for lower energy consumption and reduced bandwidth-consuming night scene video noise, choose from a wide range of Pelco IR and White Light low-voltage illumination systems.

	Semi covert and covert IR Illuminator			White light LED IR Illuminator		
						
	IR850S-65/IR940S-30 Small	IR850M-120/IR940M-60 Medium	IR850L-220/IR940L-110 Large	WLEDs-50 Small	WLEDM-90 Medium	WLEDL-150 Large
Max range	65M/30M	120M/60M	220M/110M	50M	90M	150M
Variable focal lenth	10 to 120° using interchangeable defuser	10 to 120° using interchangeable defuser	10 to 120° using interchangeable defuser	10 to 120° using interchangeable defuser	10 to 120° using interchangeable defuser	10 to 120° using interchangeable defuser
Wavelength	850nm/940nm	850nm/940nm	850nm/940nm	White light	White light	White light
Input power	24W	24W	24W	24W	24W	24W
Input voltage	12-24V AC/DC	12-24V AC/DC	12-24V AC/DC	12-24V AC/DC	12-24V AC/DC	12-24V AC/DC
Vandal resistance	IK9	IK9	IK9	IK9	IK9	IK9
Warranty	5 years	5 years	5 years	5 years	5 years	5 years
Environment	IP66/NEMA 4	IP66/NEMA 4	IP66/NEMA 4	IP66/NEMA 4	IP66/NEMA 4	IP66/NEMA 4
Accessories	Remote setup tool/wall bracket	Remote setup tool/wall bracket	Remote setup tool/wall bracket	Remote setup tool/wall bracket	Remote setup tool/wall bracket	Remote setup tool/wall bracket
Certifications	CE/UL/FCC	CE/UL/FCC	CE/UL/FCC	CE/UL/FCC	CE/UL/FCC	CE/UL/FCC

Video transmission solutions

Today's security professionals are challenged by an ever-increasing number of installations beyond the reach of standard coaxial transmission capabilities. PelcoFiber™ technology meets these demands by utilizing the best transmission quality available over extended distances to provide a full line of video, data, and audio communications.

	Data	Video	Video and data	
				
	FTD1/FRD1 Series; FTD4/FRD4 Series	FTV10 Series; FTV10M Series; FRV20 Series; FTV40/FRV40 Series; FTV80/FRV80 Series; FTV160/FRV160 Series; FTV320/ FRV320 Series	FTV10D1/FRV10D1 Series; FSV10D1 Series (in-dome)**	FTV40D2/FRV40D2 Series; FTV80D2/FRV80D2 Series
DATA				
Number of channels	1, 4	None	1	2
Data communication	Bidirectional RS-232, RS-422, RS-485 (2-wire/4-wire), manchester, and bi-phase	None	Bidirectional RS-232, RS-422, RS-485 (2-wire/4-wire), manchester, bi-phase, and Coaxitron® (FTV10D1/FRV10D1); bidirectional RS-422 or Coaxitron (FSV10D1)	Bidirectional RS-232, RS-422, RS-485 (2-wire/4-wire), manchester, and bi-phase
VIDEO				
Number of channels	None	1, 2, 4, 8, 16, or 32	1	4, 8
Video encoding	None	10-bit	10-bit	10-bit
Video input/output	None	1.0 Vp-p, 75 ohms; NTSC, PAL, SECAM/> 1.5 Vp-p	1.0 Vp-p, 75 ohms; NTSC, PAL, SECAM/> 1.5 Vp-p	1.0 Vp-p, 75 ohms; NTSC, PAL, SECAM/> 1.5 Vp-p
Bandwidth	None	5 to 10 MHz (1, 2, 4, and 8 CH); 10 to 6.5 MHz per CH (16 and 32 CH)	5 Hz to 10 MHz (FTV10D1/FRV10D1); 5 Hz to 6.5 MHz (FSV10D1)	10 to 6.5 MHz per CH (4 CH)
Differential gain/phase/tilt	None	< 2%/< 0.7%/< 1%	< 2%/< 0.7%/< 1%	< 2%/< 0.7%/< 1%
Signal to noise ratio	None	> 67 dB typical at maximum optical loss	> 67 dB typical at maximum optical loss	> 67 dB typical at maximum optical loss
CONTACT CLOSURE				
Number of channels	None	None	None	1 (Bidirectional)
CC input/output	None	None	None	Dry/SPST relay, 0.5 contact rating
GENERAL				
Operating temperature	-40 °F to 167 °F (-40 °C to 75 °C)	-40 °F to 167 °F (-40 °C to 75 °C)	-40 °F to 167 °F (-40 °C to 75 °C)	-40 °F to 167 °F (-40 °C to 75 °C)
Power	8 to 15 Vdc @ 2 W (1 CH); 8 to 15 Vdc @ 4 W (4 CH);	9 to 36 Vdc @ 2W (1 CH mini); 8 to 15 Vdc @ 2W (1 CH); 8 to 15 Vdc @ 4W (2 CH, 8 CH); 8 to 15 Vdc @ 3W (4 CH); 90 to 264 Vac @ 70W max (16 and 32 CH)	8 to 15 Vdc @ 2W (FTV10D1/FRV10D1); 8 to 15 Vdc @ 350 mA from dome (FSV10D1)	8 to 15 Vdc @ 4W (4 CH)
LED indicators	Yes, for all critical operating parameters	Yes, for all critical operating parameters	Yes, for all critical operating parameters	Yes, for all critical operating parameters
Optical emitter	Laser diode	Laser (1 CH mini); laser diode	Laser diode	Laser diode
Wavelength	1310 nm/1550 nm	1310 nm/1310 nm	1310 nm/1550 nm	1310 nm/1310 nm
Optical power budget (MM/SM)	16 dB/23 dB	12 dB/16 dB (1 CH mini); 12 dB/26 dB (1 CH); 16 dB/23 dB (2 CH, 4 CH); 16	16 dB/23 Db (FTV10D1/FRV10D1); 16 dB/20 Db (FSV10D1)	16 dB/23 dB
Multimode fiber support distances	4 km (1 CH); 3 km (4 CH)	dB/16dB (8 CH); 18 dB (16 and 32 CH)	3 km (FTV10D1/FRV10D1); 4 km (FSV10D1)	2 km
Single mode fiber support distances	69 km	4 km (1 CH mini, 1 CH); 3 km (2 CH, 8 CH); 2 km (4 CH)	69 km (FTV10D1/FRV10D1); 60 km (FSV10D1)	69 km
Standalone/rack mountable	Yes/yes	54 km (1CH mini, 1 CH); 48 km (2 CH, 8 CH); 69 km (4 CH); 54 km (16 and 32 CH)	Yes/yes (FTV10D1/FRV10D1); no/no (FSV10D1)	Yes/yes
Number of fibers	1	Yes/yes (not applicable for 1CH mini, 16 and 32 CH)	1	1
Number of rack slots	1 slot (1 CH); 2 slots (4 CH)	1, 2 (2 CH Rx only)	1 slot (FTV10D1/FRV10D1); not applicable (FSV10D1)	2 slot (4 CH); 3 slot (8 CH)
CONNECTORS				
Optical	1 slot (1 CH); 2 slots (4 CH)	1 slot (1 CH, 4 CH); 2 slots (2 CH, 8 CH)	ST (MM and SM), FC (SM)	ST (MM and SM), FC (SM)
Video	None	ST (MM and SM), FC (SM)	BNC, gold-plated center pin (FTV10D1/FRV10D1); electrical connector (FSV10D1)	BNC (gold-plated center pin)
Power	Terminal block	BNC (gold-plated center pin)	Terminal block (FTV10D1/FRV10D1); electrical connector (FSV10D1)	Terminal block
Data	Terminal block	Terminal block	Terminal block (FTV10D1/FRV10D1); electrical connector (FSV10D1)	Terminal block
Contact closure/alarm	None	None	None	Terminal block
Audio	None	None	None	None
Certifications				
	CE class A; FCC class A; UL/cUL listed; C-Tick; designed to meet NEMA TS 1/TS 2 and Caltrans traffic signal control equipment environmental standards*	CE class A; FCC class A; UL/cUL listed; C-Tick; designed to meet NEMA TS 1/TS 2 and Caltrans traffic signal control equipment environmental standards*	CE class A; FCC class A; UL/cUL listed; C-Tick; designed to meet NEMA TS 1/TS 2 and Caltrans traffic signal control equipment environmental standards*	CE class A; FCC class A; UL/cUL listed; C-Tick; designed to meet NEMA TS 1/TS 2 and Caltrans traffic signal control equipment environmental standards*

* Conformal coating is required for operation in environments with relative humidity above 95% (condensing).

Video transmission solutions

Today's security professionals are challenged by an ever-increasing number of installations beyond the reach of standard coaxial transmission capabilities. PelcoFiber technology meets these demands by utilizing the best transmission quality available over extended distances to provide a full line of video, data, and audio communications.



DATA

Number of channels	1
Data communication	Bidirectional RS-232, RS-422, RS-485 (2-wire/4-wire), Manchester, and bi-phase

VIDEO

Number of channels	1
Video encoding	10-bit
Video input/output	1.0 Vp-p, 75 ohms; NTSC, PAL, SECAM/> 1.5 Vp-p
Bandwidth	10 to 6.5 MHz per CH (4 CH)
Differential gain/phase/tilt	< 2%/< 0.7%/< 1%
Signal to noise ratio	> 67 dB typical at maximum optical loss

AUDIO

Number of channels	2 (bidirectional)
Audio input/output	Max. 4.4 Vp-p (+6 dBm)
Bandwidth	20 Hz to 18 kHz
Total harmonic distortion	0.02%
Signal to noise ratio	85 dB (typical)

CONTACT CLOSURE

Number of channels	1 (bidirectional)
CC input/output	Dry/SPST relay, 0.5 contact rating

GENERAL

Operating temperature	-40 °F to 167 °F (-40 °C to 75 °C)
Power	8 to 15 Vdc @ 4 W (4 CH)
LED indicators	Yes, for all critical operating parameters
Optical emitter	Laser diode
Wavelength	1310 nm/1550 nm
Optical power budget (MM/SM)	16 dB/16 dB
Multimode fiber support distances	4 km
Single mode fiber support distances	48 km
Standalone/rack mountable	Yes/yes
Number of fibers	1
Number of rack slots	2

CONNECTORS

Optical	ST (MM and SM), FC (SM)
Video	BNC (gold-plated center pin)
Power	Terminal block
Data	Terminal block
Contact closure/alarm	Terminal block
Audio	Terminal block

CERTIFICATIONS

	CE class A; FCC class A; UL/cUL listed; C-Tick; designed to meet NEMA TS 1/TS 2 and Caltrans traffic signal control equipment environmental standards*
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* Conformal coating is required for operation in environments with relative humidity above 95% (condensing).

End-to-end video security

Pelco produces the industry's broadest and most respected offering of IP and analog video security systems. From megapixel and integrated positioning systems to video management and software-only solutions, Pelco is committed to providing complete, end-to-end solutions backed by the most comprehensive customer support in the video security industry.

As part of Schneider Electric, Pelco connects you to the global specialist in energy and security management, and has the ability to deliver integrated security and building management solutions that let you control your entire security landscape across enterprises, from a single user interface.



Capture.



Manage.



Display.



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