IX30 Series Sarix™ Network Camera

3.1 MEGAPIXEL HIGH DEFINITION DIGITAL CAMERAS

Product Features

- Open IP Standards
- Up to 3.1 Megapixel Resolution (2048 x 1536)
- Up to 30 Images per Second (ips) at 1280 x 720
- Auto Back Focus
- H.264 and MJPEG Compression Capability
- Color and Day/Night Models
- Video Setup Jack
- Sensitivity Down to 0.03 lux
- Power over Ethernet (IEEE 802.3af) or 24 VAC
- Up to 2 Simultaneous Video Streams
- Web Viewing, up to 16 Cameras Simultaneously
- Local Storage (Mini SD) for Alarm Capture
- Motion Detection
- Audio Accessory Available

(LENS NOT SUPPLIED WITH CAMERA)

The **IX30 Series with Sarix™ technology** is a 3.1 megapixel (MPx) network camera designed with industry-leading image quality and high performance processing power. Designed to install quickly, the camera comes equipped with the advanced features needed for demanding security applications.

Sarix technology defines the next generation of video security imaging performance, delivering high definition (HD) resolution, advanced low light capabilities, consistent color science, and fast processing power. The H.264 compression video files are up to 20 times smaller making high definition video more affordable.

Camera
The **IX30 Series** has two 3.1 megapixel models: color and day/night. Both models feature advanced low light technology capabilities. The day/night model has a mechanical IR cut filter for increased sensitivity in low light installations.

The **IX30 Series** can support two simultaneous video streams. The two streams can be compressed in MJPEG and H.264 formats across several resolution configurations. The streams can be configured to a variety of frame rates, bit rates, and GOP (group of pictures) structures for additional bandwidth administration.

The **IX30 Series** is simple to install, and the automatic back focus control feature makes sharp scene focus setup easy. A convenient video setup jack eliminates the need to use a laptop for viewing video when installing the camera.

The **IX30 Series** features built-in Power over Ethernet (PoE) IEEE 802.3af, which supplies power to the camera over the network, eliminating the need for a separate power supply. If PoE is not available, 24 VAC can be used to power the camera.

Web Interface
The **IX30 Series** uses a standard Web browser for powerful remote setup and administration. Up to 16 cameras can be viewed on the same network.

Network protocols such as SSL configuration for security certificates, SSH for remote logon, and QoS for priority or guarantee data flow can be managed using a Web browser.

Window Blanking
Window blanking is used to conceal user-defined privacy areas that cannot be viewed by an operator. The **IX30 Series** supports up to four blanked windows. A blanked area will appear on the screen as a solid gray window.

Systemization
The **IX30 Series** easily connects to Pelco IP and hybrid systems such as Endura® version 2.0 (or later) and Digital Sentry® version 4.2 (or later). The camera also features open architecture connectivity to third-party software. Pelco offers an application programming interface (API) for interfacing with Pelco's network cameras

International Standards
Organization Registered Firm;
ISO 9001 Quality System

ISO 9001 CERTIFIED

by **Schneider** Electric

GENERAL

Imaging Device	1/3-inch (effective)
Imager Type	CMOS
Imager Readout	Progressive scan
Maximum Resolution	2048 x 1536
Signal-to-Noise Ratio	50 dB
Auto Iris Lens Type	DC drive
Electronic Shutter Range	1 ~ 1/100,000 sec
Wide Dynamic Range	60 dB
White Balance Range	2,000° to 10,000°K
Sensitivity	f/1.2; 2,850°K; SNR >24 dB
Color (33 ms)	0.50 lux
Color SENS (500 ms)	0.12 lux
Mono (33 ms)	0.25 lux
Mono SENS (500 ms)	0.03 lux
Weight (without lens)	1.11 lb (0.50 kg)
Shipping Weight	2.00 lb (0.90 kg)

ELECTRICAL

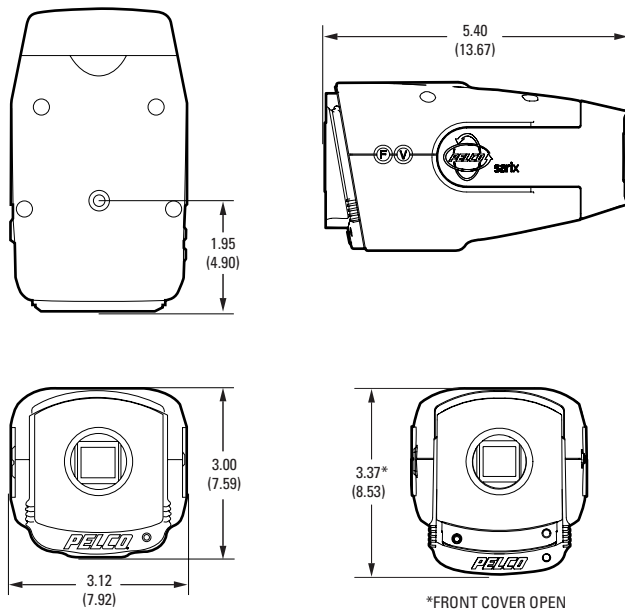|	
Port	RJ-45 connector for 100Base-TX Auto MDI/MDI-X
Cabling Type	Cat5 or better for 100Base-TX
Power Input	22 to 34 VAC; 24 VAC nominal or PoE (IEEE 802.3af class 3)
Power Consumption	<6 W
Current Consumption	
PoE	<200 mA maximum
24 VAC	<295 mA nominal; <390 mA maximum
Local Storage	Mini SD
Alarm Input	10 VDC maximum, 5 mA maximum
Alarm Output	0 to 15 VDC maximum, 75 mA maximum
Service Port	External 3-connector, 2.5 mm provides NTSC/PAL video output

MECHANICAL

Lens Mount	CS mount, adjustable
Camera Mount	0.25-inch (0.64 cm) UNC-20 screw, top and bottom of camera housing

ENVIRONMENTAL

Operational Temperature	14° to 122°F (–10° to 50°C)
Storage Temperature	14° to 158°F (–10° to 70°C)
Storage Humidity	20% to 90%, noncondensing

FRONT VIEW, CAMERA ONLY
(OPENED TO EXPOSE SERVICE PORT)

REAR VIEW

NOTE: VALUES IN PARENTHESES ARE CENTIMETERS; ALL OTHERS ARE INCHES.

TECHNICAL SPECIFICATIONS

VIDEO

Video Encoding   H.264 base profile and MJPEG

Video Streams   Up to 2 simultaneous streams; the second stream is variable based on the setup of the primary stream

Frame Rate   Up to 30, 25, 24, 15, 12.5, 12, 10, 8, 7. 5, 6, 5, 4, 3, 2.5, 2, 1 (dependent upon coding, resolution, and stream configuration)

Available Resolutions

Resolution				MJPEG		H.264 Base Profile	
MPx	Width	Height	Aspect Ratio	Maximum IPS	Recommended Bit Rate	Maximum IPS	Recommended Bit Rate
3.1	2048	1536	4:3	12.0 ips	10.0 Mbps	3.0 ips	2.6 Mbps
2.1	1920	1080	16:9	15.0 ips	10.0 Mbps	5.0 ips	2.7 Mbps
1.9	1600	1200	4:3	15.0 ips	10.0 Mbps	6.0 ips	2.6 Mbps
1.3	1280	1024	5:4	20.0 ips	10.0 Mbps	8.0 ips	2.5 Mbps
1.2	1280	960	4:3	20.0 ips	9.8 Mbps	8.0 ips	2.4 Mbps
0.9	1280	720	16:9	30.0 ips	10.0 Mbps	12.5 ips	2.5 Mbps
0.5	800	600	4:3	30.0 ips	5.8 Mbps	25.0 ips	2.0 Mbps
0.3	640	480	4:3	30.0 ips	3.7 Mbps	30.0 ips	1.6 Mbps
0.1	320	240	4:3	30.0 ips	0.9 Mbps	30.0 ips	0.4 Mbps

Additional Resolutions   640 x 512, 640 x 352, 480 x 368, 480 x 272, 320 x 256, and 320 x 176

Supported 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, mDNS (Bonjour®), and 802.1x (EAP)

Users
    Unicast   Up to 20 simultaneous users depending on resolution settings (2 guaranteed streams)
    Multicast   Unlimited users H.264

Security Access   Password protected

Software Interface   Web browser view and setup, up to 16 cameras

Pelco System Integration   Endura 2.0 (or later) or Digital Sentry 4.2 (or later)

Open IP Integration   Pelco IP camera API

Minimum System Requirements
    Processor   Intel® Pentium® 4 microprocessor, 1.6 GHz
    Operating System   Microsoft® Windows® XP, Windows Vista®, or Mac® OS X 10.4 (or later)
    Memory   512 MB RAM
    Network Interface Card   100 megabits (or greater)
    Monitor   Minimum of 1024 x 768 resolution, 16- or 32-bit pixel color resolution
    Web Browser*   Internet Explorer® 7.0 (or later) or Mozilla® Firefox® 3.5 (or later); Internet Explorer® 8.0 (or later) is recommended for configuring analytics
    Media Player†   QuickTime® 7.6.5 for Windows XP, Windows Vista, or QuickTime 7.6.4 for Mac OS X 10.4

*Internet Explorer is not supported by Mac OS X 10.4.

†This product is not compatible with QuickTime version 7.6.4 for Windows XP or Windows Vista. If you have this version installed on your PC, you will need to upgrade to QuickTime version 7.6.5.

MODELS

IX30C	Sarix 3.1 megapixel network color camera
IX30DN	Sarix 3.1 megapixel network day/night camera

CERTIFICATIONS

- CE, Class B
- FCC, Class B
- UL/cUL Listed
- C-Tick

ACCESSORIES

IX-SC	4-foot Sarix service cable; compatible with standard BNC connectors
IA-A	Audio accessory; supplied with two USB extension cables: 1 ft (0.3 m) and 3 ft (0.9 m)

RECOMMENDED MOUNTS

C10-UM	Universal camera mount

RECOMMENDED ENCLOSURES

EH1512	Indoor/outdoor enclosure
EH3512	Outdoor enclosure
DF8	8-inch fixed mount dome

RECOMMENDED LENSES

13M2.2-6	Megapixel lens, varifocal, 2.2 ~ 6.0 mm, f/1.3 ~ 2.0
13M2.8-8	Megapixel lens, varifocal, 2.8 ~ 8.0 mm, f/1.2 ~ 1.9
13M2.8-12	Megapixel lens, varifocal, 2.8 ~ 12.0 mm, f/1.4 ~ 2.7
13M15-50	Megapixel lens, varifocal, 15.0 ~ 50.0 mm, f/1.5 ~ 2.1

Pelco lenses have been designed and tested to deliver optimal image quality for the IX30 Series camera. The use of standard definition lenses on IX30 Series megapixel camera will limit the resolution of the camera, creating poor image quality.

Field of View in Degrees		Aspect Ratio		
		16:9	4:3	5:4
2.2 mm	Horizontal	109	109	109
	Vertical	63	83	89
2.8 mm	Horizontal	89	89	89
	Vertical	48	66	70
6.0 mm	Horizontal	42	42	42
	Vertical	24	32	34
8.0 mm	Horizontal	32	32	32
	Vertical	18	24	25
12.0 mm	Horizontal	21	21	21
	Vertical	12	16	17
15.0 mm	Horizontal	16	16	16
	Vertical	9	12	13
50.0 mm	Horizontal	5	5	5
	Vertical	3	4	4

Note: For 800 x 600 (or lower) resolutions in 4:3 or 5:4 aspect ratios, the field of view is smaller than listed above. Refer to the Installation/Operation manual for details.