# IX10 Series Sarix™ Network Camera
## 1.3 MEGAPIXEL HIGH DEFINITION DIGITAL CAMERAS

## Product Features

- Open IP Standards
- Up to 1.3 Megapixel Resolution (1280 x 1024)
- 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

**(LENS NOT SUPPLIED WITH CAMERA)**

The **IX10 Series with Sarix™** technology is a 1.3 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 **Sarix IX10 Series** has two 1.3 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 **Sarix IX10 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 **Sarix IX10 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 **Sarix IX10 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 **Sarix IX10 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.

### Systemization
The **Sarix IX10 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

## GENERAL

| | |
|---|---|
| Imaging Device | 1/3-inch (effective) |
| Imager Type | CMOS |
| Imager Readout | Progressive scan |
| Maximum Resolution | 1280 x 1024 |
| Signal-to-Noise Ratio | 50 dB |
| Auto Iris Lens Type | DC drive |
| Electronic Shutter Range | 1~1/10,000 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

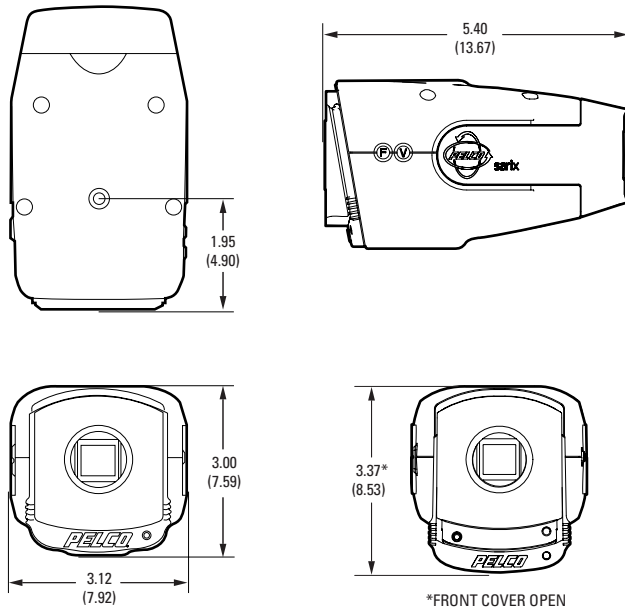| | |
|---|---|
| Port | RJ-45 connector for 100Base-TX Auto MDI/MDI-X |
| Cabling Type | Cat5 or better for 100Base-TX |
| Power Input | 24 VAC or PoE (IEEE 802.3af class 3) |
| Power Consumption | <6 W |
| Current Consumption | |
|    PoE | <200 mA maximum |
|    24 VAC | <295 mA nominal; <390 mA maximum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

## ENVIROMENTAL

| | |
|---|---|
| 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 |



SERVICE CONNECTOR     LED

**FRONT VIEW, CAMERA ONLY**
**(OPENED TO EXPOSE SERVICE CONNECTOR)**



5.40
(13.67)

1.95
(4.90)

3.00
(7.59)

3.12
(7.92)

3.37*
(8.53)

*FRONT COVER OPEN

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



**REAR VIEW**

## 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 |
| 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 | 1.6 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, QoS, HTTP, HTTPS, LDAP (client), SSH, SSL, SMTP, FTP, MDNS (Bonjour)

Users
 Unicast Up to 20 simultaneous users
 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)
 Digital Sentry 4.2 (or later)

Open IP Integration Pelco IP camera API

Minimum Web Browser
 Requirements PC (Pentium® 4 microprocessor, 1.6 GHz) with Windows® XP, and Windows Vista®, or Mac® OS X 10.4 (or later)
 Web User Interface Interface for viewing requires QuickTime® 7.55 (or later)
 RAM 512 MB
 Ethernet Card 100 Megabits
 Web Browser Microsoft® Internet Explorer® 7.0 (or later) or Mozilla® Firefox® 3.0 (or later)
 Screen Resolution 1024 x 768 pixels or higher, 16- or 32-bit pixel color resolution

## MODELS

| IX10C | Sarix 1.3 megapixel network color camera |
| IX10DN | Sarix 1.3 megapixel network day/night camera |

## CERTIFICATIONS

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

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

## ACCESSORIES

| IX-SC | 4-foot Sarix service cable; compatible with standard BNC connectors |

## 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 IX10 Series camera. The use of standard definition lenses on IX10 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.