

PELCO

by Schneider Electric

Q U I C K S T A R T

Sarix® IL10 Series IP Camera



Dome Camera Installation

C3914M (2/13)

Important Notices

LEGAL NOTICE

SOME PELCO EQUIPMENT CONTAINS, AND THE SOFTWARE ENABLES, AUDIO/VISUAL AND RECORDING CAPABILITIES, THE IMPROPER USE OF WHICH MAY SUBJECT YOU TO CIVIL AND CRIMINAL PENALTIES. APPLICABLE LAWS REGARDING THE USE OF SUCH CAPABILITIES VARY BETWEEN JURISDICTIONS AND MAY REQUIRE, AMONG OTHER THINGS, EXPRESS WRITTEN CONSENT FROM RECORDED SUBJECTS. YOU ARE SOLELY RESPONSIBLE FOR INSURING STRICT COMPLIANCE WITH SUCH LAWS AND FOR STRICT ADHERENCE TO ANY/ALL RIGHTS OF PRIVACY AND PERSONALTY. USE OF THIS EQUIPMENT AND/OR SOFTWARE FOR ILLEGAL SURVEILLANCE OR MONITORING SHALL BE DEEMED UNAUTHORIZED USE IN VIOLATION OF THE END USER SOFTWARE AGREEMENT AND RESULT IN THE IMMEDIATE TERMINATION OF YOUR LICENSE RIGHTS THEREUNDER.

REGULATORY NOTICES

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

RADIO AND TELEVISION INTERFERENCE

This equipment has been tested and found to comply with the limits of a Class A digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Changes and Modifications not expressly approved by the manufacturer or registrant of this equipment can void your authority to operate this equipment under Federal Communications Commission's rules.

In order to maintain compliance with FCC regulations shielded cables must be used with this equipment. Operation with non-approved equipment or unshielded cables is likely to result in interference to radio and television reception.

This Class A digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

Introduction

The Sarix® IL10 Series dome cameras are high-definition, IP network cameras that offer a cost-effective solution for video security needs in small- and medium-sized businesses. The IL10 Series is part of Pelco's Value (V) range of cameras.

The IL10 Series dome camera is easy to install, offers ceiling mounting, and uses a standard Web browser for easy remote setup and administration. The IL10 Series easily connects to Pelco IP and hybrid systems such as Endura® version 2.0 (or later), Digital Sentry® version 7.3 (or later), and DX4700/DX4800 hybrid video recorders. The camera is also conformant with ONVIF Profile S for connection with third-party video management systems.

This document describes the installation and initial set-up procedures to begin operating the camera. For more information about operating your camera, refer to the operation manual specific to the product.

NOTE: For additional information about product documentation in English and other languages, go to www.pelco.com/sarix and navigate to the IL10 Series Web page.

MODELS

IL10-DA	Sarix IL10 Indoor Micro Dome Camera, 24 VAC
IL10-DP	Sarix IL10 Indoor Micro Dome Camera, Power over Ethernet (PoE)

Getting Started

Before installing your device, thoroughly familiarize yourself with the information in the installation section of this manual.

NOTES:

- Pelco recommends connecting the device to a network that uses a Dynamic Host Configuration Protocol (DHCP) server to address devices.
- Do not use a network hub when configuring the network settings for the device.
- To ensure secure access, place the device behind a firewall when it is connected to a network.

SUPPLIED PARTS LIST

Qty	Description
1	Camera
1	Ceiling mount
1	Bubble
1	24 VAC power connector (model IL10-DA only)
4	MAC address labels (extra)
1	Template for in-ceiling mount installation
1	IL10 Series Dome Camera Installation Quick Start Guide
1	Important Safety Instructions

Product Overview

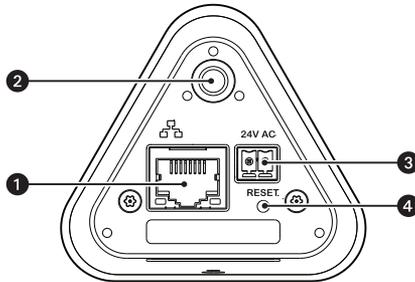


Figure 1. Camera Connections (model IL10-DA shown)

- 1 RJ-45 Network Port:** Connects the camera to the IP network. Also supplies power, through the same connector, to the PoE model of the camera.
- 2 1/4-inch x 20 Thread:** Connects the camera to a mount.
- 3 24 VAC Port:** Supplies power to the 24 VAC model of the camera.
- 4 Reset Button:** Reboots the camera or restores the camera's factory default settings. This button is recessed. Using a small tool, such as a paper clip, press and release the reset button once to reboot the camera. Press and hold the reset button for 10 seconds to restore the camera to the factory default settings.

Installation

1. Cut a 9.5 cm (3.75 inch) diameter hole in the ceiling.
2. Pull the wiring through the hole.

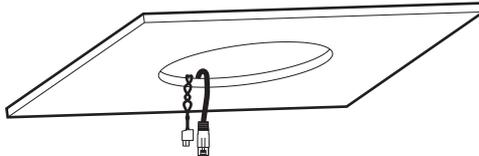


Figure 2. Pulling the Wiring

3. Install the ceiling mount, by pushing it into the ceiling, and then pull the wiring through the mount.

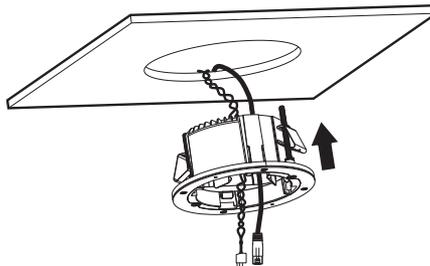


Figure 3. Installing the Ceiling Mount

4. Tighten the two captive screws until the mount is held tightly to the ceiling.

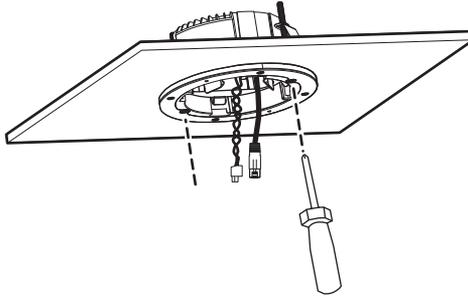


Figure 4. Tightening the Screws

5. Connect the power wiring to the camera using one of the following options:

- Connect the network cable to the RJ-45 network port on the rear of the camera (refer to model IL10-DP).
- If the camera is 24 VAC, also connect the 24 VAC power connector (supplied) to the rear of the camera (refer to model IL10-DA). Then connect to a 24 VAC power supply (not supplied).

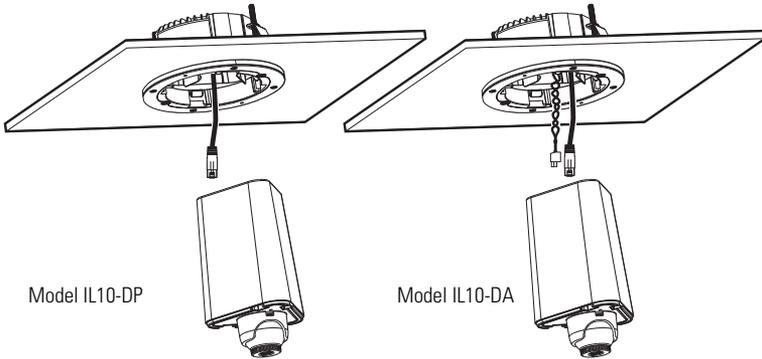


Figure 5. Connecting the Power Wiring

6. Insert the camera into the ceiling mount and lock it in place with the latch hooks. Verify that the camera is securely attached to the ceiling mount by checking that the latch hooks have locked.

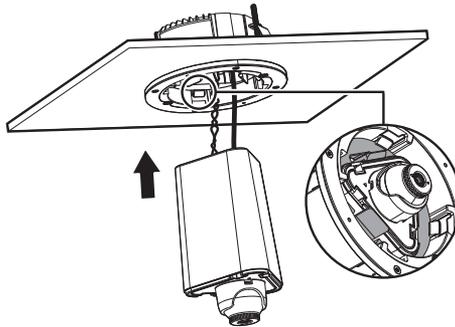


Figure 6. Inserting the Camera into the Ceiling Mount

7. Apply power to the camera. The camera will complete a configuration sequence. The LED below the lens will blink for several minutes while the camera system boots. The LED will turn off when the system boot cycle completes.

NOTE: If the camera is not connected to a DHCP server and DHCP is enabled, the configuration sequence might take up to five minutes to complete.

8. If you do not know the camera's IP address, install the Pelco Device Utility software available at www.pelco.com. The utility will locate the assigned name, IP address, and MAC address of the camera.
9. View the camera image using a Web browser.
10. Adjust the view angle (pan/tilt) of the camera. Rotate the camera body to adjust the pan. Rotate the sensor ball to adjust the tilt.

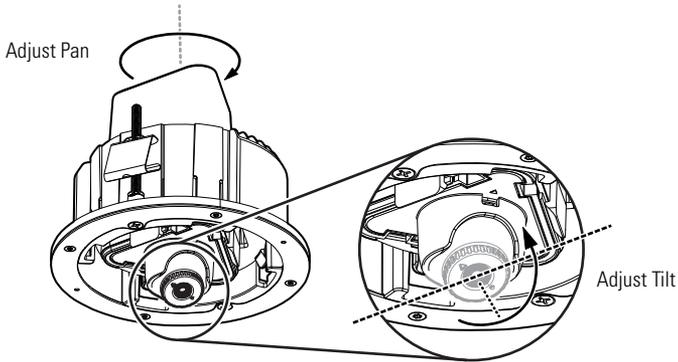


Figure 7. Adjusting the Pan and Tilt

11. Attach the bubble to the ceiling mount using the magnet. (The magnet secures the bubble to the ceiling mount.)

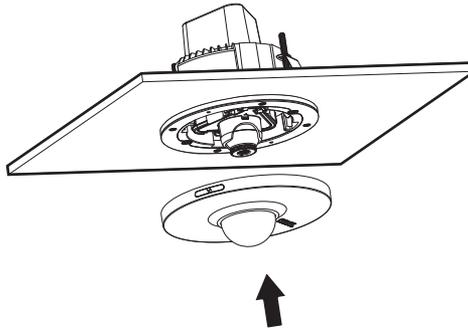


Figure 8. Attaching the Bubble

POWER WIRING

CAT5 CABLE

Connect a Cat5 cable (not supplied) to the RJ-45 network connector. The 8-pin connector includes video and PoE for the camera. PoE (IEEE 802.3af) injects power over the same cabling that carries the network data, eliminating the need for a separate power supply. This simplifies the installation and operation of the camera without affecting network performance.

NOTE: The camera will autosense and configure itself to use either a crossover cable or a straight cable.

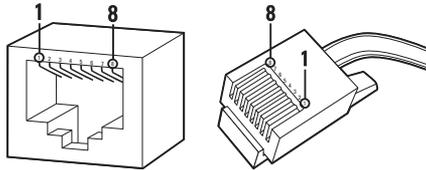


Figure 9. Cat5 Cable Pins

Table A. Pin Descriptions

Pin	Function
1	TX+
2	TX-
3	RX+
4	PoE 1-2
5	PoE 1-2
6	RX-
7	PoE 3-4
8	PoE 3-4

24 VAC

Use the information in the following table as a guide to 24 VAC wiring distances.

Table B. 24 VAC Wiring Distances

AC/DC Total VA/ Total Watts	Wire Gauge			
	20 AWG (0.5 MM ²)	18 AWG (1.0 MM ²)	16 AWG (1.5 MM ²)	14 AWG (2.5 MM ²)
8 VA/5 W	107 m (351 ft)	170 m (558 ft)	271 m (889 ft)	431 m (1414 ft)

Operation

IP ADDRESS SETTINGS

If the camera is connected to a Dynamic Host Configuration Protocol (DHCP) network and DHCP is set to On, the server automatically assigns an IP address to the camera. The default setting for the camera is DHCP On. To set the camera's IP address manually, set DHCP to Off.

NOTES:

- If the camera is not connected to a DHCP server but DHCP is set to On, the default IP address 192.168.0.20 on subnet mask 255.255.255.0 is automatically assigned to the camera. After the first camera is connected and assigned the default IP address, the system automatically looks for other cameras on the auto IP address system and assigns IP addresses in sequential order as required.
- For example, if three cameras are connected to a network without a DHCP server, the first camera is assigned address 192.168.0.20, the second camera is assigned address 192.168.0.21, and the third camera is assigned address 192.168.0.22.
- Contact your network administrator to avoid network conflicts before setting/changing the camera's IP address.
- If you do not know the camera's IP address, install the Pelco Device Utility software available at www.pelco.com. The utility will locate the assigned name, IP address, and MAC address of the camera.

LOGGING ON TO THE CAMERA

1. Open the Web browser.
2. Type the camera's IP address in the browser address bar.
NOTE: If you do not know the camera's IP address, you can locate it using the Pelco Device Utility software.
3. Click the Log In button in the navigation bar; a dialog box opens.
4. Type your user name and password.

NOTE: If you are logging on to the camera as the administrator for the first time, the default user name and password are **admin** (all lowercase). For security purposes, be sure to change the password after you log on for the first time.

5. Click Log In.

Specifications

CONSTRUCTION

Camera Body	Polycarbonate-ABS blend
Bubble	Polycarbonate, transparent

CAMERA

Imaging Device	1/6.9 inch
Imager Type	CMOS
Imager Readout	Progressive scan
Aspect Ratio	16:9
Sensitivity	f/2.0
Color (33 ms)	3.0 lux, autoswitching
Color (200 ms)	0.5 lux, autoswitching
Signal-to-Noise Ratio	50 dB
White Balance Range	2850° to 6500°K
Video Motion Detection	3 zones, plus background zone
Angle Adjustment	Pan/tilt
Lens	f/2.0
Focal Length	1.92 mm

ELECTRICAL

Input Power	
24 VAC	24 VAC ±10% nominal; 50/60 Hz nominal
PoE	IEEE802.3af, ±10%, Class 0
Network Port	RJ-45 connector
Cabling Type	Cat5
Power Consumption	<3 W

VIDEO

Video Encoding	H.264
Video Streams	Up to 2 simultaneous streams: 1 view and 1 record; 1280 x 720 at 30, 25, 15, or 10 ips; plus 640 x 352 at 5 ips
Frame Rate	Up to 30 ips
Maximum Resolution	1280 x 720
Supported Protocols	HTTP, RTP, RTSP, NTP, IPv4, RTCP, UPnP, SSH, SSL
Unicast Users	Up to 6 simultaneous users depending on resolution settings (2 guaranteed streams); 4 users for full resolution at 30 ips
Multicast Users	Unlimited users
Software Interface	Web browser view and setup

Pelco System Integration

Endura 2.0 (or later);
Digital Sentry 7.3 (or later);
DX4700/DX4800

Open API

Pelco API v1.0 or ONVIF Profile S

ENVIRONMENTAL

Operating Temperature

-0° to 40°C (32° to 104°F)

Storage Temperature

-0° to 60°C (32° to 140°F)

Operating Humidity

15% to 85%, RH (noncondensing)

Storage Humidity

15% to 85%, RH (noncondensing)

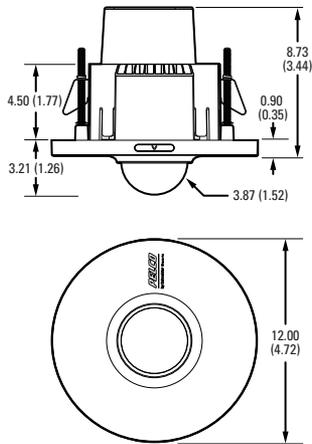
PHYSICAL

Weight

0.264 kg (0.582 lb)



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



REVISION HISTORY

Manual #	Date	Comments
C3914M	2/13	Original version.

PRODUCT WARRANTY AND RETURN INFORMATION

WARRANTY

Pelco will repair or replace, without charge, any merchandise proved defective in material or workmanship for a period of one year after the date of shipment.

Exceptions to this warranty are as noted below:

- Five years:
 - Fiber optic products
 - Unshielded Twisted Pair (UTP) transmission products
 - CC3701H-2, CC3701H-2X, CC3751H-2, CC3651H-2X, MC3651H-2, and MC3651H-2X camera models
- Three years:
 - FD Series and BU Series analog camera models
 - Fixed network cameras and network dome cameras with Sarix® technology
 - Sarix thermal imaging products (TI and ESTI Series)
 - Fixed analog camera models (C20 Series, CCC1390H Series, C10DN Series, and C10CH Series)
 - EH1500 Series enclosures
 - Spectra® IV products (including Spectra IV IP)
 - Spectra HD dome products
 - Camclosure® IS Series integrated camera systems
 - DX Series video recorders (except DX9000 Series which is covered for a period of one year), DVR5100 Series digital video recorders, Digital Sentry® Series hardware products, DVX Series digital video recorders, and NVR300 Series network video recorders
 - Endura® Series distributed network-based video products
 - Genex® Series products (multiplexers, server, and keyboard)
 - PMCL200/300/400 Series LCD monitors
 - PMCL5xxF Series and PMCL5xxNB Series LCD monitors
 - PMCL5xxxBL Series LED monitors
- Two years:
 - Standard varifocal, fixed focal, and motorized zoom lenses
 - DF5/DF8 Series fixed dome products
 - Legacy® Series integrated positioning systems
 - Spectra III™, Spectra Mini, Spectra Mini IP, Esprit®, ExSite®, ExSite IP, and PS20 scanners, including when used in continuous motion applications
 - Esprit Ti and TI2500 Series thermal imaging products
 - Esprit and WW5700 Series window wiper (excluding wiper blades)
 - CM6700/CM6800/CM9700 Series matrix
 - Digital Light Processing (DLP®) displays (except lamp and color wheel). The lamp and color wheel will be covered for a period of 90 days. The air filter is not covered under warranty.
- Six months:
 - All pan and tilts, scanners, or preset lenses used in continuous motion applications (preset scan, tour, and auto scan modes)

Pelco will warrant all replacement parts and repairs for 90 days from the date of Pelco shipment. All goods requiring warranty repair shall be sent freight prepaid to a Pelco designated location. Repairs made necessary by reason of misuse, alteration, normal wear, or accident are not covered under this warranty.

Pelco assumes no risk and shall be subject to no liability for damages or loss resulting from the specific use or application made of the Products. Pelco's liability for any claim, whether based on breach of contract, negligence, infringement of any rights of any party or product liability, relating to the Products shall not exceed the price paid by the Dealer to Pelco for such Products. In no event will Pelco be liable for any special, incidental, or consequential damages (including loss of use, loss of profit, and claims of third parties) however caused, whether by the negligence of Pelco or otherwise.

The above warranty provides the Dealer with specific legal rights. The Dealer may also have additional rights, which are subject to variation from state to state.

If a warranty repair is required, the Dealer must contact Pelco at (800) 289-9100 or (559) 292-1981 to obtain a Repair Authorization number (RA), and provide the following information:

1. Model and serial number
2. Date of shipment, P.O. number, sales order number, or Pelco invoice number
3. Details of the defect or problem

If there is a dispute regarding the warranty of a product that does not fall under the warranty conditions stated above, please include a written explanation with the product when returned.

Method of return shipment shall be the same or equal to the method by which the item was received by Pelco.

RETURNS

To expedite parts returned for repair or credit, please call Pelco at (800) 289-9100 or (559) 292-1981 to obtain an authorization number (CA number if returned for credit, and RA number if returned for repair) and designated return location.

All merchandise returned for credit may be subject to a 20 percent restocking and refurbishing charge.

Goods returned for repair or credit should be clearly identified with the assigned CA or RA number and freight should be prepaid.

10-9-12

PELCO

by **Schneider** Electric

Pelco by Schneider Electric 3500 Pelco Way Clovis, California 93612-5699 United States
USA & Canada Tel (800) 289-9100 Fax (800) 289-9150
International Tel +1 (559) 292-1981 Fax +1 (559) 348-1120
www.pelco.com www.pelco.com/community