by **Schneider** Electric

IE-S Surface Mount Adapter

C2240M **(11/09)**

Contents

Important Safety Instructions

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Only use attachments/accessories specified by the manufacturer.
6. Installation should be done only by qualified personnel and conform to all local codes.
7. Use only installation methods and materials capable of supporting four times the maximum specified load.
8. Only use replacement parts recommended by Pelco.

Description

The IE-S is a surface mount adapter specifically designed for IE and IEE Series network dome cameras. The surface adapter modifies the network dome camera so it can be mounted directly to a ceiling.

You can install the IE-S surface mount adapter using one of the following methods:

- Pull the dome camera wiring through the top of the surface mount adapter (refer to *Basic Surface Installation* on page 5).
- Pull the dome camera wiring through the side conduit of the surface mount adapter (refer to *Side Conduit Installation* on page 6).

PARTS LIST

Remove all of the contents from the shipping box.

Qty	Description
1	IE-S surface mount adapter
1	Tube of Loctite®
3	10-32 Phillips pan head screws
1	Installation manual

Installation tools and the following parts are needed but not supplied:

Qty	Description
1	IE or IEE Series network dome camera
1	Lens (use either a megapixel or standard auto iris lens, depending on camera model)
1	IX-SC service cable
1	Mounting hardware

Installation

BASIC SURFACE INSTALLATION

1. Use the surface mount adapter as a template to mark the holes for the mounting hardware, cable, and wiring on the mounting surface.

2. Prepare the mounting surface as follows:

   - **Standard ceiling:** When mounting the surface mount adapter to a standard ceiling, use either 8-32 toggle bolts (not supplied) or #8 x 3.50-inch self-tapping screws (not supplied).

   - **Concrete ceiling:** When mounting the surface mount adapter to a concrete system, use 8-32 studs and nuts (not supplied). Cut out the hole for the cable and wiring. Pull the cable and wires through the mounting surface and then through the surface mount adapter. Terminate all wires (if not already terminated).

3. Attach the surface mount adapter to the mounting surface (hardware not supplied). Use stainless steel hardware when installing the system outdoors.
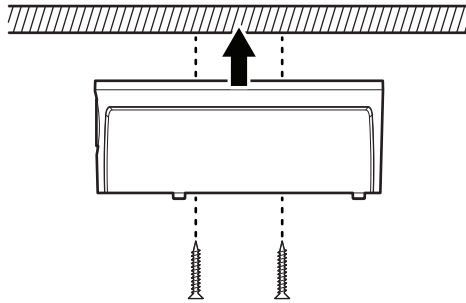
Figure 1. Installing Surface Mount Adapter to Surface

4. Install the lens and back box (refer to *Lens and Back Box* on page 7).

SIDE CONDUIT INSTALLATION

1. Use the surface mount adapter as a template to mark the holes for the mounting hardware on the mounting surface.

2. Prepare the mounting surface as follows:
   - **Standard ceiling:** When mounting the surface mount adapter to a standard ceiling, use either 8-32 toggle bolts (not supplied) or #8 x 3.50-inch self-tapping screws (not supplied).
   - **Concrete ceiling:** When mounting the surface mount adapter to a concrete system, use 8-32 studs and nuts (not supplied).

3. Remove the conduit plug from the surface mount adapter. Install a 0.75-inch or 25 mm threaded conduit connector (not supplied) into the conduit hole in the surface mount adapter.
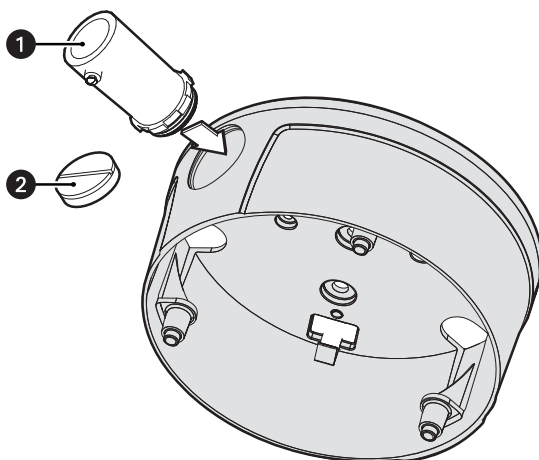

Figure 2. Installing Conduit Connector

❶ 0.75-inch or 25 mm Conduit Connector (not supplied)
❷ Conduit Plug

4. Pull the cable and wires through the conduit and then through the surface mount adapter. Terminate all wires (if not already terminated).

5. Attach the surface mount adapter to the mounting surface (hardware not supplied). Use stainless steel hardware when installing the system outdoors.

6. Install the lens and back box (refer to *Lens and Back Box* on page 7).

LENS AND BACK BOX

NOTE: Megapixel lenses are designed and tested to deliver optimal image quality to megapixel cameras. A standard definition lens installed on a megapixel camera will limit the resolution of the camera and create poor image quality.

1. Install the lens on the IE or IEE Series back box:

   a. Remove the cover from the lens mount.

   b. Screw the lens onto the lens mount. Be careful to prevent dust from entering the space between the lens and the imager. If necessary, use clean, compressed air to remove any foreign matter (refer to the instructions shipped with the lens).

   c. Connect the auto iris lens to the 4-pin connector located on the side of the camera. Refer to Figure 3 for pin designation and iris drive connector information.
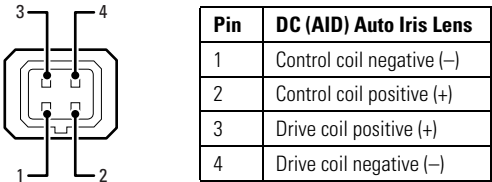
Pin	DC (AID) Auto Iris Lens
1	Control coil negative (–)
2	Control coil positive (+)
3	Drive coil positive (+)
4	Drive coil negative (–)

Figure 3. Lens Pin Connections

2. Connect the network cable to the RJ-45 network port on the side of the back box. If the network has no Power over Ethernet (PoE), connect a 24 VAC Class 2 power supply to the 24 VAC power connector.
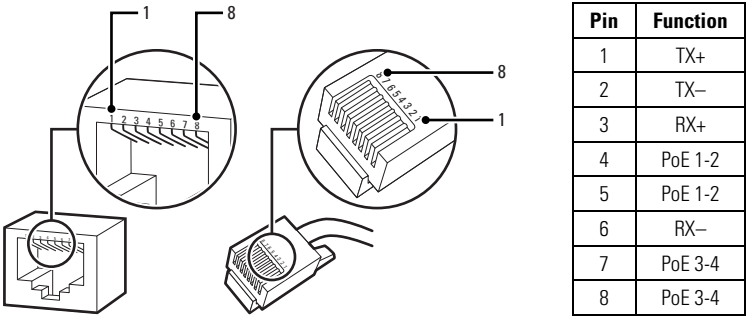
Pin	Function
1	TX+
2	TX–
3	RX+
4	PoE 1-2
5	PoE 1-2
6	RX–
7	PoE 3-4
8	PoE 3-4

Figure 4. RJ-45 Pin Descriptions

3. Connect the wiring for the alarms and relays.

Table A. Alarm and Relay Wire Descriptions

Wire Color	Description
Brown	Line In +
White/Brown	Line In –
Orange	Line Out +
White/Orange	Line Out –
Green/White	Relay Return
Green	Relay Out
Blue	Alarm In
Blue/White	Alarm Return

4. Connect the 24 VAC power wires to operate the heater inside the dome. If PoE is not available, 24 VAC also supplies power to the camera. Refer to Table B for wire descriptions and Table C for wiring distances.

Table B. 24 VAC Wire Descriptions

Wire Color	Description
Red	24 VAC +
Black	24 VAC –

Table C. 24 VAC Wiring Distances

AC/DC Total VA/ Total Watts	Wire Gauge			
	20 AWG	18 AWG	16 AWG	14 AWG
23 VA/15 W	123 ft (38 m)	196 ft (60 m)	311 ft (95 m)	495 ft (151 m)
75 VA/65 W	39 ft (12 m)	62 ft (19 m)	98 ft (30 m)	156 ft (48 m)

NOTES:
- Power consumption for the IE and IEE Series cameras is 60 VA with the heater running.
- Use a 24 VAC transformer with a minimum of 100 VA per dome.
- If you are operating the camera using 24 VAC and you are wiring more than one camera to the same transformer, connect one side of the transformer to the red wire (24 VAC+) and connect the other side of the transformer to the black wire (24 VAC–). Failure to connect all modules identically might introduce video noise for some installations.

5. Install the back box:
    a. Install the back box in the surface mount adapter. Line up the back box screws with the three mounting screw holes on the surface mount adapter.
    b. Install the machine screws (supplied).
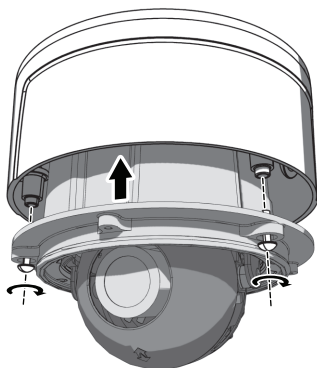   c. Tighten the machine screws completely to secure the back box to the surface mount adapter.

Figure 5. Installing the Back Box

6. Apply power to the camera. The camera will complete a configuration sequence: the green LED flashes five times per second for approximately two minutes and then turns solid after the sequence is complete.
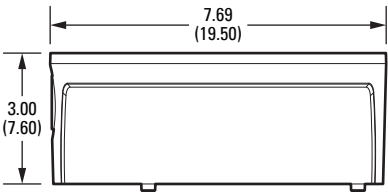
    NOTE: If the camera is not connected to a Dynamic Host Configuration Protocol (DHCP) server and DHCP is enabled, the configuration sequence might take up to five minutes to complete.

7. To complete the installation, refer to the IE Series Installation/Operation manual or the IEE Series Installation/Operation manual.

Specifications

GENERAL

Construction   Aluminum

Finish   Polyester powder coat

Unit Weight   1.73 lb (0.78 kg)

(Design and product specifications subject to change without notice.)

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

REVISION HISTORY

Manual #	Date	Comments
C2240M	11/09	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:
  - Pelco-designed fixed network cameras and network dome cameras with Sarix™ technology.
  - Pelco-branded fixed camera models (CCC1390H Series, C10DN Series, C10CH Series, and IP3701H Series)
  - EH1500 Series enclosures
  - Spectra® IV products (including Spectra IV IP)
  - Camclosure® Series (IS, ICS, IP) integrated camera systems
  - DX Series digital video recorders, 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
- 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®, 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.
  - Intelli-M® eIDC controllers
  - PMCL542F, PMCL547F, and PMCL552F FHD monitors
- One year:
  - Video cassette recorders (VCRs), except video heads. Video heads will be covered for a period of six months.
- 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

10-19-09

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