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C415M-J (11/99) E700 Series Dust-Tight Enclosure

IMPORTANT SAFEGUARDS AND WARNINGS

Prior to installation and use of this product, the following WARNINGS should be observed.

1. Installation and servicing should only be done by qualified service personnel and conform to all local codes.
2. Unless the unit is specifically marked as a NEMA Type 3, 3R, 3S, 4, 4X, 6 or 6P enclosure, it is designed for indoor use only and it must not be installed where exposed to rain and moisture.
3. Only use replacement parts recommended by Pelco.
4. After replacement/repair of this unit's electrical components, conduct a resistance measurement between line and exposed parts to verify the exposed parts have not been connected to line circuitry.

The product and/or manual may bear the following marks:



This symbol indicates that dangerous voltage constituting a risk of electric shock is present within this unit.



This symbol indicates that there are important operating and maintenance instructions in the literature accompanying this unit.

CAUTION:

RISK OF ELECTRIC SHOCK.
DO NOT OPEN.

Please thoroughly familiarize yourself with the information in this manual prior to installation and operation.

DESCRIPTION

The E700 Series Dust-Tight Enclosure is designed to protect CCTV cameras operating in small-particle and dusty environments. Stainless steel models are available for use in corrosive atmospheres.

Models

| | |
|-----------|---|
| E706-16 | 6-inch diameter x 16-inch length (15.24 cm x 40.64 cm), aluminum construction |
| E706-16P | Same as E706-16, except with purge fittings (15.24 cm x 40.64 cm) |
| E706-16PS | Same as E706-16P, except type 304 stainless steel construction |
| E706-16S | Same as E706-16, except type 304 stainless steel construction |
| E706-24 | 6-inch diameter x 24-inch length (15.24 cm x 60.96 cm), aluminum construction |
| E706-24P | Same as E706-24, except with purge fittings |
| E706-24PS | Same as E706-24P, except type 304 stainless steel construction |
| E706-24S | Same as E706-24, except type 304 stainless steel construction |
| E708-24 | 8-inch diameter x 24-inch length (20.32 cm x 60.96 cm), aluminum construction |
| E708-24P | Same as E708-24, except with purge fittings |
| E708-24PS | Same as E708-24P, except type 304 stainless steel construction |
| E708-24S | Same as E708-24, except type 304 stainless steel construction |

NOTE: Models with purge fittings require a filtered compressed air supply up to 35 psi at 10 cfm to provide positive internal air pressure circulation. Uses 1/4-inch NPT fittings.

INSTALLATION

Camera and Lens

To install the camera and lens, perform the following steps:

1. Unsnap the two latches holding the rear end plate on the enclosure and slide the camera sled out.
2. Place the camera and lens at the maximum forward position on the sled. Adjust the camera and lens so that they do not extend beyond the track. Attach camera and lens with the 1/4-20 x .500-inch, hex head screws provided.
 - a. An enclosure with a heater, a camera with a low optical centerline, or a camera using a large diameter lens may require an elevation block (EB1 or EB2) for proper positioning.
 - b. Extend the lens to the maximum length before positioning the camera and lens combination. This will ensure that the lens has enough clearance and will not hit the window during focusing.
3. Loosen the cable gland nuts on the back of the enclosure. Route video and power cables through separate glands and connect to the camera. Tighten the gland nuts for a snug fit around the cables. Refer to Table A for the type of video coaxial cable to use. If the camera uses 24 VAC, refer to Table B to determine the size of wire to use.
4. Close and secure the enclosure. Attach padlocks (not supplied) to the latches, if desired.
5. Attach the enclosure to the mount or pan/tilt. Follow the instructions provided with the mounting equipment.

Table A. Video Coaxial Cable Requirements

| Cable Type* | Maximum Distance |
|-------------|------------------|
| RG59/U | 750 ft (229 m) |
| RG6/U | 1,000 ft (305 m) |
| RG11/U | 1,500 ft (457 m) |

* Minimum cable requirements:
75 ohms impedance
All-copper center conductor
All-copper braided shield with 95% braid coverage

Table B. 24 VAC Wiring Distances

The following are the recommended maximum distances for 24 VAC applications and are calculated with a 10-percent voltage drop. (Ten percent is generally the maximum allowable voltage drop for AC-powered devices.)

| | | Wire Gauge | | | | | |
|-------|--|------------------|-------------------|-------------------|--------------------|--------------------|-------------------|
| | | 20 | 18 | 16 | 14 | 12 | 10 |
| 10 vA | | 283 ft (86 m) | 451 ft (137 m) | 716 ft (218 m) | 1142 ft (348 m) | 1811 ft (551 m) | 2880 ft (877m) |

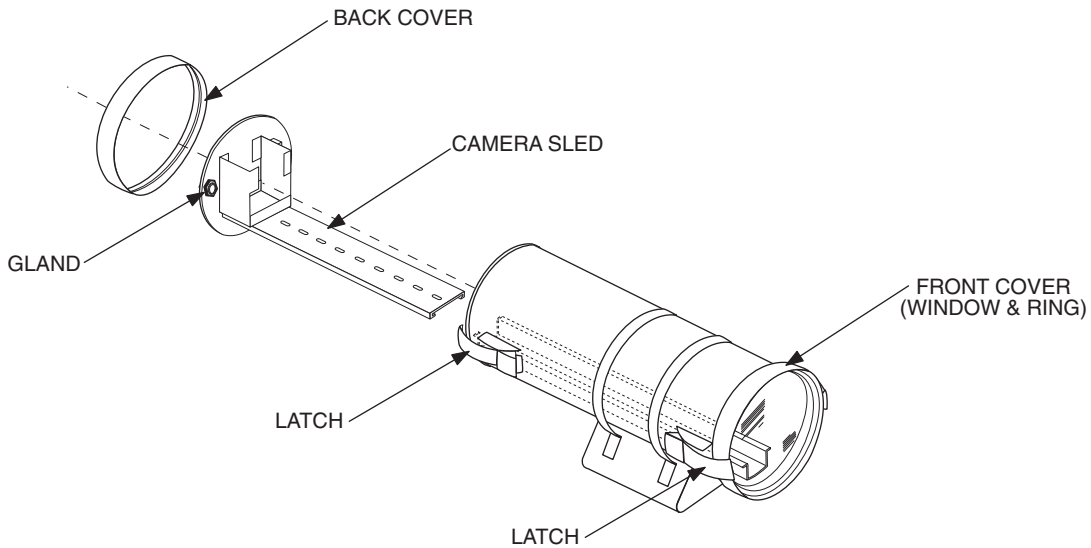


Figure 1. Enclosure Assembly



CAUTION: Do not restrict exhaust outlet. Pressure may build within the enclosure and damage the window. The E700 Series Enclosure is not designed to be pressurized.

Enclosures with Purge Fittings

Purge fittings create internal positive pressure, keeping external contaminants from entering the enclosure. Proper installation requires a filtered compressed air supply up to 35 psi at 10 cfm. A refrigerated air supply will provide additional cooling for the enclosure. Models with purge fittings come equipped with two .25-inch NPT female fittings located on the rear plate. One is for air input and the other for exhaust. Either fitting can be used for input or exhaust. Make the necessary connections.

MAINTENANCE

Regularly scheduled maintenance will help prolong the operational life and the appearance of this equipment. The front window can be cleaned with any standard glazing cleaner. Avoid abrasive cleaners. To access the inside of the window open the latches on the front plate.

SPECIFICATIONS

MECHANICAL

Camera Mounting: Multiple mounting holes in removable sled
 Cable Entry: Two adjustable, liquid tight glands
 Window: .187-inch (4.74 mm) thick Lucite® SAR acrylic
 Latches: Draw latch with security features

GENERAL

Construction: Aluminum or type 304 stainless steel

Finish: Gray polyester powder coat

| | | |
|----------|-----------------------|------------------------|
| Weight | Aluminum | Stainless Steel |
| E706-16: | 6 lb 14 oz. (3.11 kg) | 13 lb (5.89 kg) |
| E706-24: | 9 lb 13 oz. (4.45 kg) | 16 lb 13 oz. (7.62 kg) |
| E708-24: | 10 lb 8 oz. (4.76 kg) | 17 lb 9 oz. (7.96 kg) |

Rating: NEMA 4 (stainless steel models NEMA 4X)

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

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 on FT/FR8000 Series fiber optic products.
- Three years on Genex® Series products (multiplexers, server, and keyboard).
- Three years on Camclosure® and fixed camera models, except the CC3701H-2, CC3701H-2X, CC3751H-2, CC3651H-2X, MC3651H-2, and MC3651H-2X camera models, which have a five-year warranty.
- Two years on standard motorized or fixed focal length lenses.
- Two years on Legacy®, CM6700/CM6800/CM9700 Series matrix, and DF5/DF8 Series fixed dome products.
- Two years on Spectra®, Esprit®, ExSite™, and PS20 scanners, including when used in continuous motion applications.
- Two years on Esprit® and WW5700 Series window wiper (excluding wiper blades).
- Eighteen months on DX Series digital video recorders, NVR300 Series network video recorders, and Endura™ Series distributed network-based video products.
- One year (except video heads) on video cassette recorders (VCRs). Video heads will be covered for a period of six months.
- Six months on all pan and tilts, scanners or preset lenses used in continuous motion applications (that is, 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 Pelco, Clovis, California. 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 which 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

In order to expedite parts returned to the factory for repair or credit, please call the factory 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).

All merchandise returned for credit may be subject to a 20% 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. Ship to the appropriate address below.

If you are located within the continental U.S., Alaska, Hawaii or Puerto Rico, send goods to:

Service Department
Pelco
3500 Pelco Way
Clovis, CA 93612-5699

If you are located outside the continental U.S., Alaska, Hawaii or Puerto Rico and are instructed to return goods to the USA, you may do one of the following:

If the goods are to be sent by a COURIER SERVICE, send the goods to:

Pelco
3500 Pelco Way
Clovis, CA 93612-5699 USA

If the goods are to be sent by a FREIGHT FORWARDER, send the goods to:

Pelco c/o Expeditors
473 Eccles Avenue
South San Francisco, CA 94080 USA
Phone: 650-737-1700
Fax: 650-737-0933

REVISION HISTORY

| Manual # | Date | Comments |
|----------|-------|---|
| C415M-H | 5/96 | Revision H. Revised to show redesigned heater bracket configurations and heater pads or blankets per ECO #96-131 and 96-157. Part callouts for heater kits and options updated. |
| C415M-I | 6/98 | Revision I. Removed E704 and E710 models, changed heater bracket design, added packing material to E706 air funnel kit. Changed manual to new format. |
| C415M-J | 11/99 | Revision J. Created separate manuals for the Heater/Blower (C2412M), Sun Visor/Shroud (C2413M), and Air Funnel Kit (C2414M). Updated manual to new format. |