

# DF8 Series Pendant Dome



C2433M-D (9/06)

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## **Important Safety Instructions**

- 1. Read these instructions.
- 2. Keep these instructions.
- 3. Heed all warnings.
- 4. Follow all instructions.
- 5. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 6. Do not install near any heat sources, such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 7. Only use attachments/accessories specified by the manufacturer.
- 8. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as powersupply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, the apparatus does not operate normally, or the apparatus has been dropped.
- 10. To reduce the risk of shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.
- 11. Only use replacement parts Pelco recommends.
- 12. After replacing/repairing 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.
- 13. The installation method and materials should be capable of supporting four times the weight of the enclosure, pan/tilt, camera, and lens combination.

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.

# Description

DF8 Series pendant domes are discreet surveillance domes that are designed for indoor or outdoor use.

Indoor pendant models come in light gray or black finish. Outdoor pendant models are light gray only and include a heater that allows operation down to -60°F (-51°C).

## MODELS

DF8-PB-0	Indoor, black, fixed mount pendant dome, black opaque lower dome with smoked viewing window (0.7 F-stop of light loss)
DF8-PB-1	Same as DF8-PB-0, except clear viewing window (virtually no light loss)
DF8-PB-2	Same as DF8-PB-0, except chrome lower dome (2 F-stops of light loss)
DF8-PB-3	Same as DF8-PB-0, except gold lower dome (2 F-stops of light loss)
DF8-PG-0	Indoor, gray, fixed mount pendant dome, black opaque lower dome with smoked viewing window (0.7 F-stop of light loss)
DF8-PG-1	Same as DF8-PG-0, except clear viewing window (virtually no light loss)
DF8-PG-2	Same as DF8-PG-0, except chrome lower dome (2 F-stops of light loss)
DF8-PG-3	Same as DF8-PG-0, except gold lower dome (2 F-stops of light loss)
DF8-PG-E0	Outdoor, gray, fixed mount pendant dome, heater and blower, black opaque lower dome with smoked viewing window (0.7 F-stop of light loss)
DF8-PG-E1	Same as DF8-PG-E0, except clear viewing window (virtually no light loss)

## Installation

## **PARTS LIST**

The DF8 shipping carton contains two boxes. Inspect each box to make sure all parts are present.

### **BACK BOX**

- 1 Back box
- 1 Parts bag
  - 1 Flat washer
  - 1 Split lock washer
  - 1 Screw
  - 1 Thread compound

### **LOWER DOME**

- 1 Acrylic lower dome with trim ring
- 1 Parts bag
  - 1 O-ring
  - 1 O-ring lubricant
  - 1 Loctite<sup>®</sup> threadlocker

## **BACK BOX**

### **PENDANT MOUNT**

NOTE: If installing outdoors, make sure the back box is properly sealed to keep moisture out.

- 1. Install the mount for the pendant dome. Refer to the instructions supplied with the mount.
- 2. Bring the wiring for the dome through the mount. Refer to Table A and Table B for wiring distances.
- 3. Loosen the nut that holds the tilt table assembly to the base of the back box. Move the tilt table assembly as necessary and bring the wiring into the dome. Re-center the tilt table assembly and hand-tighten the nut.
- 4. Apply thread compound (supplied) to the threads on the back box and screw the back box into the mount.

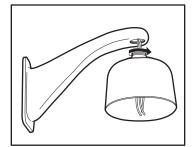


Figure 1. Installing Pendant Mount and Back Box

### **SURFACE MOUNT**

**NOTE:** If installing outdoors, apply a sealant between the back box and the mounting surface.

1. Unscrew the three Phillips screws located inside the back box. Remove the top portion of the back box.

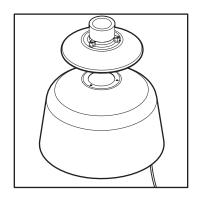


Figure 2. Removing the Top Mount from the Back Box

- 2. Determine the mounting location. Use the base of the back box as a template. Mark the fastener and center hole positions onto the mounting surface.
- 3. Prepare the holes for the wiring and fasteners.
- 4. Prepare the wiring for camera and lens power; refer to Table A and Table B for wiring distances.
- 5. Position the back box over the mounting holes and pull wiring into the back box. Secure the back box to the mounting surface using the appropriate hardware for your installation.

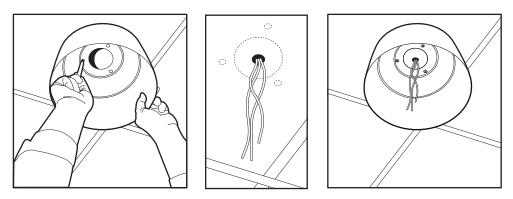


Figure 3. Installing the Surface Mount Back Box

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

Table A. Video Coaxial Cable Requirements

\*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	
Total VA consumed	10	283 (86)	451 (137)	716 (218)	1142 (348)	1811 (551)	2880 (877)	from ad
	20	141 (42)	225 (68)	358 (109)	571 (174)	905 (275)	1440 (438)	ance fro to load
	30	94 (28)	150 (45)	238 (72)	380 (115)	603 (183)	960 (292)	n dist ormer
	40	70 (21)	112 (34)	179 (54)	285 (86)	452 (137)	720 (219)	Maximum distance from transformer to load
-	50	56 (17)	90 (27)	143 (43)	228 (69)	362 (110)	576 (175)	Ma

**EXAMPLE:** An enclosure that requires 30 VA and is installed 94 feet (28 m) from the transformer would require a minimum wire gauge of 20 AWG.

#### NOTE:

- Models with heaters require 24 VAC for the heater. The heater uses 53 VA. If the camera uses 24 VAC, add the camera power to that of the heater and refer to Table B to determine the size of wire to use.
- Distances are calculated in feet; values in parentheses are meters.

## **CAMERA AND LENS**

To install the camera and lens:

- 1. Outdoor models only: Connect 24 VAC power input wires to the AC IN connectors on the terminal block on the side of the back box.
- 2. Extend the lens to the maximum length before installing the camera in the back box.
- 3. Attach the camera to the tilt table with the 1/4-20 screw, flat washer, and split lock washer (supplied).
- 4. To ensure that the lens will not hit the lower dome:
  - Place the lower dome over the back box with the camera and lens installed (do not attach dome).
  - If the lens touches the lower dome, adjust the tilt table assembly.
- 5. Refer to the manual supplied with the camera and lens for the following information:
  - How to connect power and video wiring
  - How to make camera and lens adjustments

**Outdoor models only:** If the camera will use 24 VAC, red and black power leads are provided for the camera. The leads are attached to the terminal block on the side of the back box.

6. Loosen the two nuts on the tilt table assembly and position the camera. Tighten the nuts.

## LOWER DOME

NOTE: If you are installing the dome outdoors, plug the two-pin heater connection in the lower dome into the mating connector in the back box.

- If the lower dome has a smoked or clear viewing slot, loosen the six retaining screws inside the rim. Refer to Figure 5 and hold the lower dome up against the back box with the mounting screws lined up with the mounting holes in the back box. Rotate the acrylic dome to line up the viewing slot with the camera. Retighten the six retaining screws.
- 2. Lightly apply O-ring lubricant to the O-ring. Install the O-ring in the groove of the trim ring.

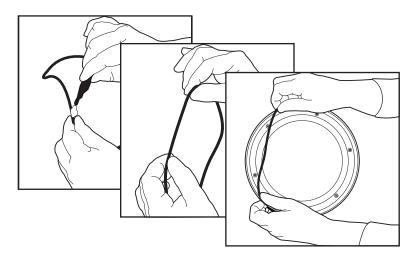


Figure 4. Installing the O-Ring

3. Attach the trim ring leash to the T-shaped sheet metal tab on the retaining ring of the lower dome. Tuck the end of the trim ring leash behind the raised sheet metal stop, and make sure the leash will hold the lower dome.

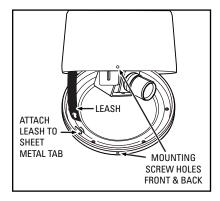


Figure 5. Attaching the Trim Ring Leash

4. Remove the two mounting screws. Apply a drop of Loctite threadlocker #222 (supplied) to each screw. Line up the mounting screw holes, push the lower dome inside the back box, and reinstall the mounting screws.

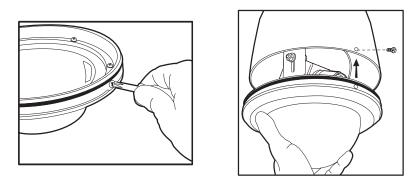


Figure 6. Installing the Lower Dome

## Maintenance

Clean the acrylic dome as needed. Be careful not to scratch the surfaces of the dome.

**Exterior surface:** Clean the dome's exterior surface with a nonabrasive cleaning cloth and agent that is safe for acrylic plastic. Either liquid or spray cleaner/wax suitable for fine furniture is acceptable.

Interior surface (except chrome or gold): Clean the same as the exterior surface.

Interior surface (chrome or gold): The inside surface of a chrome or gold dome is easily scratched. Use the following precautions to maintain the dome's surface.

- a. Always handle the dome from the outside of its circular flange.
- b. Never touch the coated inside surface. The acid in your fingerprints will eventually etch the coating if the fingerprints are not carefully removed according to the recommended cleaning procedure in item e.
- c. If dust or other contaminants accumulate on the dome's interior, remove the debris with compressed air. Compressed air cans are available from photographic equipment or electronic supply dealers.
- d. If heavy residue accumulates and cannot be removed with air pressure, rinse with water and immediately dry with air pressure so that water spots will not remain. Avoid wiping the coated surface with direct hand pressure it will easily abrade unless extreme care is taken. Once scratched, the dome cannot be repaired.
- e. If internal wiping is necessary, avoid hand rubbing. Instead, make a wick as follows:

Use a very soft paper towel. Roll a section into a tightly wound tube. Tear the tube in half, and wet the fuzzy end of the wick with a solution of isopropyl alcohol diluted with water. Hold the dome with its opening facing downward and wipe the interior of the dome with the wet end of the wick. Use a circular motion, starting from the outside and spiraling into the center. Use a new wick for each two passes over the dome.

## **SERVICE MANUAL**

If you need to service your unit, obtain a service manual in one of the following ways:

- Go to Pelco's web site at www.pelco.com and find service manual C2433SM.
- Contact Pelco's Literature Department and request service manual C2433SM.

# **Specifications**

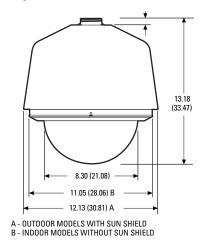
ELECTRICAL	
Input Voltage	14-30 VAC (outdoor models only)
Input Power	53 VA at 24 VAC (for heater and blower)
GENERAL	
Construction	
Back Box	Aluminum
Mounting Bracket	Steel
Lower Dome	Acrylic
Trim Ring	Aluminum
Dimensions	See dimension drawing
Environment	Indoor and outdoor
Operating Temperature	
Indoor	32° to 120°F (0° to 49°C)
Outdoor*	-60° to 122°F (-51° to 50°C)
	continuous operation -50° to 122°F (-46° to 50°C)
	continuous operation; prevents icing -40° to 122°F (-40° to 50°C)
	continuous operation; de-ices within 3 hours after power-up
Weight (without camera)	6.00 lb (2.72 kg); add 2.50 (1.13 kg) for heater and sun shield
Ratings	Meets NEMA Type 4X and IP66 standards
Assumes no windchill factor.	
CAMERA	

Maximum Camera and Lens Size

The following dimensions are specified according to fixed camera mount position and include allowance for the BNC connector. Actual length may vary if width and height of camera and lens are different.

Horizontal:	7.25" L x 2.75" W x 2.60" H
	(19.05 x 6.99 x 6.60 cm)
15 Degree Angle:	7.75" L x 3.00" W x 3.00" H
	(20.32 x 7.62 x 7.62 cm)
30 Degree Angle:	8.75" L x 3.00" W x 3.00" H
	(22.86 x 7.62 x7.62 cm)

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



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

#### 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 FR/FT/FS Series fiber optic products and TW3000 Series unshielded twisted pair transmission products.
- Three years on Genex® Series products (multiplexers, server, and keyboard).
- Three years on Camclosure<sup>®</sup> 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.
- Three years on PMCL200/300/400 Series LCD monitors.
- Two years on standard motorized or fixed focal length lenses.
- Two years on Legacy<sup>®</sup>, CM6700/CM6800/CM9700 Series matrix, and DF5/DF8 Series fixed dome products.
- Two years on Spectra<sup>®</sup>, Esprit<sup>®</sup>, ExSite<sup>™</sup>, and PS20 scanners, including when used in continuous motion applications.
- Two years on Esprit<sup>®</sup> and WW5700 Series window wiper (excluding wiper blades).
- Two years (except lamp and color wheel) on Digital Light Processing (DLP®) displays. The lamp and color wheel will be covered for a period of 90 days. The air filter is not covered under warranty.
- Eighteen months on DX Series digital video recorders, NVR300 Series network video recorders, and Endura<sup>™</sup> 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)b289-9100 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

Screen The materials used in the manufacture of this document and its components are compliant to the requirements of Directive 2002/95/EC.



This equipment contains electrical or electronic components that must be recycled properly to comply with Directive 2002/96/EC of the European Union regarding the disposal of waste electrical and electronic equipment (WEEE). Contact your local dealer for procedures for recycling this equipment.

#### **REVISION HISTORY**

Manual #	Date	Comments
C2433M	7/01	Original version.
C2433M-A	9/01	Revised manual for redesigned product. Also revised model descriptions, voltage specifications, and dimension drawing. Added additional instructions for heater
		installation. Removed ratings.
C2433M-B	8/02	Added certifications. Revised Important Safeguards and Warnings.
C2433M-C	10/03	Added NEMA Type 4X and IP66 certifications.
C2433M-D	9/06	Revised per ECO 05-11636, which incorporated Spectra III style back box and heater/blower assembly. Revised F-stop values and maximum camera and lens size
		per ECO 06-14186.

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