EH8100 Series Enclosure
SPECIALTY, OUTDOOR, PRESSURIZED

Product Features

- 4- or 6-Inch Diameter
- For Use with Cameras with Fixed Focal Length or Motorized Lenses
- Indoor/Outdoor Applications
- For Use with Fixed Mount or Pan/Tilt
- Meets NEMA Type 6 and IP67 Standards
- Thermostat Controlled Heater(s), Standard Feature
- Easy Access for Service and Installation
- Legacy®-Compatible Version Available (EH8106L Only)

EH8106 ENCLOSURE

ENCLOSURE WITH SUN SHROUD

Pelco's **EH8100 Series** sealed and pressurized outdoor enclosure is designed to protect camera and lens components in adverse environmental conditions. The pressurized enclosure increases the camera reliability and reduces the cost of maintenance.

The **EH8100 Series** enclosure is easily sealed and pressurized in the field with dry nitrogen to prevent impurities from contaminating camera and lens components. A pressure relief valve prevents over-charging of the enclosure.

The **EH8100 Series** has lens preset capabilities and is designed for cameras with fixed focal length or motorized zoom lenses.
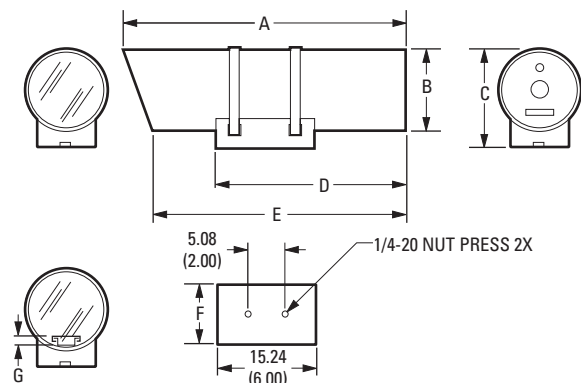
Constructed of aluminum, the **EH8100 Series** features an adjustable mounting cradle, sled and track assembly for camera mounting, and a T-handle on the rear plate for easy access to the camera and lens. Power, video, and lens control cables are routed through an MS-type connector on the rear of the enclosure.

An optional sun shroud is available that helps protect the enclosure from direct sunlight and reduces the internal temperature by approximately 6° to 10°C (10° to 15°F).

The **EH8100 Series** can be used in fixed mount applications or with a medium duty pan/tilt, such as our PT570 Series.

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

	A	B	C	D	E	F	G
EH8104	45.72 (18.00)	11.43 (4.50)	13.97 (5.50)	31.57 (12.50)	43.18 (17.00)	7.62 (3.00)	2.33 (0.92)
EH8106	55.88 (22.00)	16.51 (6.50)	17.78 (7.00)	33.02 (13.00)	50.80 (20.00)	17.78 (7.00)	2.23 (0.88)

TECHNICAL SPECIFICATIONS

MODELS

EH8104-1	Pressurized enclosure with two 120 VAC heaters; 10.16 cm (4-inch) inside diameter
EH8104-3	Pressurized enclosure with two 230 VAC heaters; 10.16 cm (4-inch) inside diameter
EH8106-1*	Pressurized enclosure with two 120 VAC heaters; 15.24 cm (6-inch) inside diameter
EH8106-3*	Pressurized enclosure with two 230 VAC heaters; 15.24 cm (6-inch) inside diameter

ELECTRICAL

Input Voltage

EH8104-1, EH8106-1	120 VAC
EH8104-3, EH8106-3	230 VAC

Power Consumption

EH8104 Series	40 W
EH8106 Series	80 W

Heater

EH8104-1	2 at 20 W each, 120 VAC
EH8104-3	2 at 20 W each, 230 VAC
EH8106-1	2 at 40 W each, 120 VAC
EH8106-3	2 at 40 W each, 230 VAC
	Heater(s) are thermostatically controlled to activate at 4°C (40°F) and turn off at 15°C (60°F)

Connector	16-pin receptacle with jam nut
Mating Connector	MS-type connector (supplied)

Maximum Cable Distances

120 VAC	EH8104 Series	EH8106 Series
16 AWG (1.5 mm^2)	1,365 m (4,477 ft)	682 m (2,238 ft)
18 AWG (1.0 mm^2)	860 m (2,821 ft)	430 m (1,410 ft)
20 AWG (0.5 mm^2)	540 m (1,773 ft)	270 m (886 ft)
230 VAC		
16 AWG (1.5 mm^2)	15,014 m (16,449 ft)	2,507 m (8,224 ft)
18 AWG (1.0 mm^2)	3,159 m (10,364 ft)	1,579 m (5,182 ft)
20 AWG (0.5 mm^2)	1,985 m (6,514 ft)	993 m (3,257 ft)

MECHANICAL

Front Window

EH8104 Series	4-inch diameter tempered glass, 0.225-inch thick
EH8106 Series	6-inch diameter tempered glass, 0.225-inch thick

Camera Mounting	Multiple mounting holes on camera sled allow for linear adjustment

Maximum Camera and Lens Size — Accepts camera and lens combinations[†] (including BNC connector) up to:

EH8104	35.56 x 6.35 x 6.35 cm (14.00" L x 2.50" W x 2.50" H) or 35.56 x 7.62 cm (14.00" L x 3.00" diameter)
EH8106	45.72 x 10.16 x 10.16 cm (18.00" L x 4.00" W x 4.00" H) or 45.72 x 12.7 cm (18.00" L x 5.00" diameter)

Enclosure Mounting	Adjustable cradle secured with type 316 stainless steel bands
Purge Fitting	Standard Schrader valve to allow enclosure to be filled with dry nitrogen
Purge Relief Fitting	Prevents over pressurization of enclosure

GENERAL

Construction	Aluminum 6061 T6	
Finish	Gray polyester powder coat	
Weight	Unit	Shipping
EH8104 Series	3.62 kg (8 lb)	4.98 kg (11 lb)
EH8106 Series	6.79 kg (15 lb)	8.15 kg (18 lb)

ENVIRONMENTAL

Ambient Operating

Temperature	-40° to 50°C (-40° to 122°F) with heater(s)
Vibration	5 to 60 Hz with 0.082-inch total travel (15 g at 60 Hz). From 60 to 1,000 Hz, 5 g RMS with random vibration
Altitude	Sea level to equivalent of 3,048 m (10,000 ft)
Acoustic Noise	Operates in 150 dB acoustic noise environments
Humidity	Up to 100% relative humidity; standard Schrader and pressure relief valves provide positive internal pressure with dry nitrogen

CERTIFICATIONS/RATINGS

- CE
- UL/cUL Listed
- Meets NEMA Type 6 and IP67 standards

OPTIONAL ACCESSORIES

Sun Shroud	SS8004	Sun shroud for EH8104 Series enclosure
	SS8006	Sun shroud for EH8106 Series enclosure
Other	EH8000RKIT	Dry nitrogen recharging kit (nonrefillable)
	PSKIT8100	Pressure sensor kit; provides a contact closure that can be wired to trigger an alarm when internal pressure drops to 2 psi

RECOMMENDED MOUNTS

EH8104 Series

EM1109, EM2000, EM2200	Medium duty mount for horizontal/vertical pipe or pole; maximum load is 18.1 kg (40 lb)
EM22	Medium duty wall mount; maximum load is 18.1 kg (40 lb)
MM22	Medium duty ceiling/pedestal mount; maximum load is 18.1 kg (40 lb)

EH8106 Series

PM2000, PM2010[‡]	Pedestal/ceiling mount; maximum load is 56.62 kg (125 lb)
WM2000[‡]	Wall mount; maximum load is 34 kg (75 lb); increased to 68 kg (150 lb) when used with ST1 strut
WM3026	Heavy duty wall mount with adjustable head; maximum load is 136 kg (300 lb)

Adapters

AH2000	Adjustable head
STI	Support strut

RECOMMENDED PAN/TILTS

PT570 Series	Medium duty pan/tilt; maximum load is 18.14 kg (40 lb)

*For applications requiring an integrated positioning system, refer to our Pressurized Legacy Series.

[†]Assumes lens is fully extended.

[‡]Use with AH2000 adjustable head.