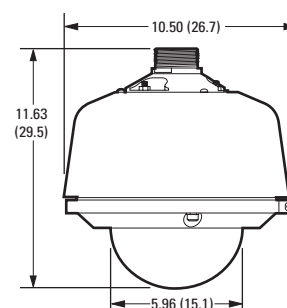


# Pressurized Spectra® IV SE Series

## BACK BOX AND LOWER DOME

### Product Features

- Pressurized to 8 psig (55 kPa)
- Solid-State Sensors for Internal Temperature, Pressure, and Dew Point
- On-Demand Environmental Status Display for Internal Temperature, Pressure, and Dew Point
- On-Screen Alert Modes
- On-Screen Programmable Menus for Pan/Tilt, Camera, and Sensor Alert Settings
- Built-in Back Box Memory
- Integrated Passive UTP Circuit
- 2 Auxiliary Outputs and 7 Alarm Inputs
- Environmental Pendant Style Back Box
- Stainless Steel Construction
- Meets NEMA Type 6P and IP67 Standards
- Compatible with 29X and 36X Spectra® IV SE Dome Drives
- Built-in Power Line Surge and Limited Lightning Protection
- Fiber Optic Feedthrough Models Available



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

Pelco's **Pressurized Spectra® IV SE Series** dome system provides ultimate protection of the camera optics and electronics from moisture, corrosive gases, and airborne contaminants. Domes are easily pressurized with dry nitrogen to 8 psig (55 kPa) before or after installation to stabilize the environment inside the system.

Sensors strategically placed in the dome system send an "Alert" message when changes in internal pressure, temperature, or dew point are beyond factory-set acceptable limits. The sensors also allow for instant on-screen display of internal temperature, pressure, and dew point.

The components of the **Pressurized Spectra IV SE Series** include an environmental pendant style back box and a lower dome designed for optimum optical clarity. All stainless steel construction provides added protection in harsh environments.

The back box features a sun shroud, heater, and fan to maintain a consistent operating environment. The back box also features built-in back box memory, an integrated passive UTP circuit, two auxiliary outputs, seven alarm inputs, and is compatible with all Spectra IV SE Series dome drives.

The lower dome features an innovative O-ring seal and a stainless steel V-band to create a reliable pressure seal. The V-band has a unique latching system with one captivated fastener making lower dome installation easy. Accessible on the lower dome trim ring are a Schrader valve for system purging and a pressure relief valve.

The **Pressurized Spectra IV SE Series** is supplied with a prewired cable with mating connector. The cable includes all wires for system functionality, including power, alarms, auxiliaries, coaxial video, UTP video, and serial control.

Also available are pressurized back box models with fiber optic feedthrough that allow Pelco's FS85011A and third-party fiber optic transmitters to be installed inside the back box. These models include either a 9/125 µm single-mode or 62.5/125 µm multimode fiber optic cable with an ST-type connector.

# TECHNICAL SPECIFICATIONS

## SYSTEM MODEL NUMBERS

Back Box Type	Lower Dome	29X Day/Night <sup>†</sup>	36X Day/Night <sup>†</sup>
Environmental Pendant, Pressurized	Smoked	SD429-PRE0	SD436-PRE0
	Clear	SD429-PRE1	SD436-PRE1
Environmental Pendant, Pressurized Fiber Optic Feedthrough, Single-Mode	Smoked	SD429-PRSE0	SD436-PRSE0
	Clear	SD429-PRSE1	SD436-PRSE1
Environmental Pendant, Pressurized Fiber Optic Feedthrough, Multimode	Smoked	SD429-PRME0	SD436-PRME0
	Clear	SD429-PRME1	SD436-PRME1

## COMPONENT MODEL NUMBERS

Back Box	Lower Dome	Dome Drive*
BB4-PR-E Environmental pendant, gray, pressurized	LD53PR-0 Lower dome with smoked bubble	DD429 Day/night (NTSC) camera (29X)
BB4-PRS-E Environmental pendant, gray, pressurized, fiber optic feedthrough, single-mode	LD53PR-1 Lower dome with clear bubble	DD436 Day/night (NTSC) camera (36X)
BB4-PRM-E Environmental pendant, gray, pressurized, fiber optic feedthrough, multimode		DD5-FM <sup>†</sup> Removable, fixed mount bracket only (camera and lens not included); interchangeable with all Spectra IV dome drives

\*For PAL and CCIR models add "-X" suffix to part number (for example: SD436-PRSE0-**X** or DD429-**X**)

<sup>†</sup>To order a fixed mount system, refer to the component models above and select a back box model, a lower dome model, and the DD5-FM dome drive.

DD5-FM accepts camera and lens combinations including a BNC connector up to 12.70 x 6.99 x 6.99 cm (5.00" D x 2.75" W x 2.75" H).

## ELECTRICAL

Input Voltage	18 to 32 VAC; 24 VAC nominal 22 to 27 VDC; 24 VDC nominal
Input Power	24 VAC 23 VA nominal (without heater); 73 VA nominal (with heater)
24 VDC	0.7 A nominal (without heater)
Fuse	1.25 A
Auxiliary Outputs	2
Alarm Inputs	7

Weight (approximate)	Unit	Shipping
Back Box	10.2 lb (4.6 kg)	13 lb (5.9 kg)
Lower Dome	3.3 lb (1.5 kg)	7 lb (3.2 kg)

## CERTIFICATIONS/RATINGS

- CE, Class B
- FCC, Class B
- UL/cUL Listed
- C-Tick
- S Mark for Argentina
- Meets NEMA Type 6P and IP67 standards

## GENERAL

Construction	
Back Box and Lower Dome	Type 316L stainless steel
Bubble	Polycarbonate, 0.090-inch thick
Light Attenuation	1 F-stop (smoked); zero light loss (clear)
V-Band	Type 316L stainless steel
Pressure Relief	Brass
Schrader Valve	Brass
Connector	Nickel-plated steel
Mounting	1.5-inch NPT, threaded
Pressurization	
Valve	Schrader
Pressure	8 psig (55 kPa) (not factory pressurized)
Pressure Relief	10 psig (69 kPa)
Operating Temperature	(Assumes no wind chill factor; for detailed test conditions, contact Pelco)
Maximum	140°F (60°C) absolute maximum; 122°F (50°C) sustained maximum
Minimum	-60°F (-51.11°C) absolute minimum; minimal icing at sustained minimum of -50°F (-45°C); prevents icing at sustained minimum of -40°F (-40°C); de-ices 0.1 inch (2.5 mm) within 3 hours after power-up

## OPTIONAL ACCESSORIES

IPS-CABLE	Remote monitor cable and software kit
IPS-RDPE-2 <sup>†</sup>	Remote data port
EH8000RKIT	Dry nitrogen recharging kit (cannot be refilled)
TXB Series <sup>†</sup>	Translator boards for AD Manchester, HERNIS, Bosch® (Philips, Burle), TASS, and NTCIP protocols
FS85011A <sup>†</sup>	Fiber transmitter sends one unidirectional composite video channel and one bidirectional data channel over one optical fiber. Available in multimode and single-mode versions
Mounts	IDM4012SS (stainless steel, wall), IWM Series (wall), MRCA (ceiling), PP4348 (parapet roof), and PP350/PP351 (parapet wall/roof)

<sup>†</sup>If TXB or FS85011A boards are installed, it is not possible to upgrade system operating software through the remote data port (IPS-RDPE-2).

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