Spectra® IV SL Series Dome Systems

HIGH-PERFORMANCE INTEGRATED DOME SYSTEM

Product Features

- Autofocus, High Resolution Integrated LowLight™ Color Camera/Optics Package
- Day/Night, 540 TVL
- · 23X Optical Zoom
- Window Blanking
- · Camera Title Overlay, 20 User-Definable Characters
- On-Screen Compass and Tilt Display
- Password Protection
- · Freeze Frame During Presets
- · Built-in Surge and Limited Lightning Protection
- Integrated Passive Unshielded Twisted Pair (UTP) Circuit
- Internal Scheduling Clock
- Ability to Add IP Network Capability by Purchasing Optional TXB-IP Module



Spectra® IV SL Series was designed with ease of installation and ease of maintenance in mind. Each dome system consists of three components: a back box, a dome drive, and a lower dome. These three system components are interchangeable with other Spectra IV dome systems, making retrofitting and application adjustments simple. Also, dome drives and lower domes can be removed and replaced reducing maintenance time.

Back Box

Spectra IV SL back box options include the following models: environmental in-ceiling (ideal for outdoor soffits), indoor in-ceiling, indoor surface mount, standard and environmental. A **passive UTP circuit** is located on the door assembly for convenient video transmission through twisted pair wire. For added flexibility, Pelco fiber modules can also be attached to the door assembly for transmission over single-mode or multimode fiber.

Dome Drive

The Spectra IV SL dome drive's **integrated optics package** incorporates many advanced features that allow the system to produce high quality video in the most difficult environments. The camera features 23X optical zoom and 12X digital zoom. Spectra IV SL dome drives feature an EXview HAD™ imager for increased sensitivity and **LowLight™** technology to compensate for scenes where minimal light is present. The camera also offers **freeze frame between presets** and **window blanking**.





ENVIRONMENTAL PENDANT SD423-PG-E0 (SHOWN WITH SWM-GY WALL MOUNT)

Lower Dome

Special consideration was taken when designing the Spectra IV SL lower dome bubble to ensure that an optimal optical relationship between the lens and bubble was achieved, providing crystal clear video at long focal lengths.

Dome Systems

Spectra IV SL dome systems feature many software enhancements that increase performance and make configuration and operation easy. An **internal scheduling clock** allows for the scheduling of presets and patterns. **Window blanking** enables a user to configure a four-sided, user-defined privacy area. **Password protection** prevents unauthorized users from changing the system settings. Configurable **on-screen compass and tilt display** provides positioning information when needed. Intuitive multilingual on-screen menus can be displayed in English, Spanish, Portuguese, Italian, French, German, Russian, Polish, Turkish, and Czech.

Spectra IV SL's variable speed capabilities range from a smooth, fast pan motion of 400 degrees per second to a smooth "creep" speed of 0.1 degree per second. The system is capable of continuous 360 degrees rotation and has an "auto flip" feature that allows the dome to rotate 180 degrees and reposition itself for uninterrupted viewing of any subject that passes directly beneath the dome

In addition, with the optional Pelco TXB-IP module, you can add IP network capability at any time to a Spectra IV dome system without losing analog viewing and control. By snapping the TXP-IP module into the back box, you can stream network video to a Web browser, Endura®, Digital Sentry®, or third-party software recording solution allowing integration into virtually any IP-based system.

TECHNICAL SPECIFICATIONS

CAMERA/OPTICS

NTSC (DD423) Signal Format

PAL (DD423-X)

Scanning System 2:1 Interlace

Image Sensor

Focus

Effective Pixels 1/4-inch progressive scan CCD

768 (H) X 494 (V) NTSC 752 (H) X 582 (V)

Horizontal Resolution

NTSC/PAL 540 TV Lines

Lens f/1.6 (focal length, 3.6~82.8 mm)

23X optical, 12X digital Zoom Speed (optical range) 2.9/4.2/5.8 seconds Horizontal Angle of View 54° at 3.6 mm wide zoom; 2.5° at 82.8 mm telephoto zoom

Automatic with manual override

Maximum Sensitivity at 35 IRE

0.65 lux at 1/60 sec (color) NTSC/EIA

0.15 lux at 1/60 sec (B-W)

0.55 lux at 1/50 sec (color) PAL/CCIR

0.12 lux at 1/50 sec (B-W)

Sync System Internal/AC line lock, phase adjustable using

remote control, V-Sync

White Balance Automatic with manual override Automatic (electronic iris)/manual Shutter Speed

NTSC 1/2 ~1/30,000 PAL 1/1.5 ~1/30,000

Iris Control Automatic iris control with manual override

Gain Control Automatic/OFF Video Output1 Vp-p, 75 ohms >50 dB Video Signal-to-Noise

DOME DRIVE FEATURES

- 64 Presets
- ±0.1° Preset Accuracy
- Multilingual Menus (English, Spanish, Portuguese, Italian, French, German, Russian, Polish, Turkish, and Czech)
- RJ-45 Data Port for Software Update and Setup
- · On-Screen Compass, Tilt, and Zoom Display
- · Password Protection
- 400°/sec Pan Preset Speed and 200°/sec Tilt Preset Speed
- Rotating Discreet Liner with Sealed Fixed Bubble
- 8 Zones (configurable in size) Can Be Labeled with up to 20 Characters Each or Set to Output Blank Video
- Configurable Locations of Labels and On-Screen Displays
- Patterns: 1 On-Screen, User-Defined Configurable Pattern; Includes Pan, Tilt, Zoom, and Preset Functions

- Proportional Pan/Tilt: Continually Decreases Pan/Tilt Speeds in Proportion to Depth of Zoom
- Variable Scan Speed: Scan Speed Can Be Configurable Between 1 to 40°/sec
- Pan Motion Allows 0.1 to 150°/sec Pan Speed
- Configurable Limit Stops for Auto/Random/Frame Scan Modes Auto-sensing Protocol (Coaxitron®, RS-422 Pelco P and Pelco D,

Sensormatic®, Vicon®); Accepts Other Control Protocols with Optional

Translator Card

- Digital Position and Zoom Control and Feedback Using D Protocol
- Built-in Menu System for Setup of Configurable Functions
- "Auto Flip" Rotates Dome 180° at Bottom of Tilt Travel
- Window Blanking: Up to 4 Four-Sided, User-Defined Shapes
- 1 Alarm Input
- 1 Auxiliary (Form C) Relay Output
- Freeze Frame Between Presets

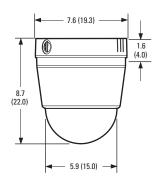
TECHNICAL SPECIFICATIONS

BACK BOX FEATURES

Surface Mount (Indoor)

- Available in Black or White Finish
- . Installs Quickly and Easily to Any Type of Ceiling
- Quick Disconnect to Dome Drive
- · Injection-Molded Plastic

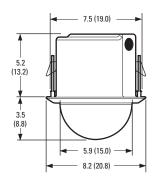




In-Ceiling (Indoor)

- Single Back Box for Suspended or Hard Ceiling Applications
- Requires 5.25-Inch Space Above Ceiling and 3.25 Inches Below
- Minimum Ceiling Thickness 0.5-Inch; Maximum 1.75 Inches
- Quick Disconnect to Dome Drive
- Aluminum Construction
- Suitable for Use in Environmental Air Handling Spaces

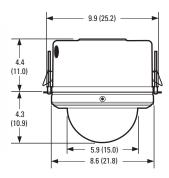




Environmental In-Ceiling

- Single Back Box for Hard Ceiling Applications
- Requires 4.4-Inch Space Above Ceiling and 4.3 Inches Below
- Includes Heater and Fan
- Minimum Ceiling Thickness 0.5-Inch; Maximum 1.75 Inches
- Quick Disconnect to Dome Drive
- Aluminum Construction



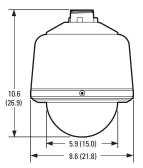


Standard and Environmental Pendant

- Standard and Environmental Models
- Standard Pendant Available in Black or Gray Finish; Environmental Pendant Gray Finish Only
- Quick Disconnect to Dome Drive
- Aluminum Construction
- · Environmental Model Includes Sun Shield, Fan, and Heater



(ENVIRONMENTAL DOME WITH SUN SHROUD SHOWN)



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

TECHNICAL SPECIFICATIONS

MECHANICAL (Dome Drive Only)

Pan Movement 360° continuous pan rotation Vertical Tilt Unobstructed $+2^{\circ}$ to -92°

Manual Pan/Tilt Speeds

Pan 0.1° to 80°/sec manual operation,

150°/sec Turbo

Tilt 0.1° to 40°/sec manual operation

Preset Speeds

Pan 400°/sec
Tilt 200°/sec

For variable-speed operation an appropriate controller is required. (With nonvariable speed control, Spectra IV pan/tilt speed is

20°/sec)

ELECTRICAL

Input Voltage 18 to 32 VAC; 24 VAC nominal 22 to 27 VDC; 24 VDC nominal

Input Power

24 VDC

24 VAC 23 VA nominal (without heater); 73 VA nominal (with heater)

0.7 A nominal (without heater);

3 A nominal (with heater)

Fuse 1.25 A

CERTIFICATIONS/RATINGS/PATENTS

- CE, Class B
- FCC, Class B
- UL/cUL Listed
- C-Tick
- · S Mark for Argentina
- Meets NEMA Type 4X, IP66 when installed properly (BB4-F-E, BB4-PB, BB4-PG, and BB4-PG-E)
- Meets NEMA Type 1, IP40 (BB4-SMW, BB4-SMB, and BB4-F)
- U.S. Patents 5,931,432; 6,793,415 B2; 6,802,656 B2; 6,821,222 B2; 7,161,615 B2

GENERAL

Construction Back Box

> Surface Mount Plastic In-Ceiling Aluminum Pendant Aluminum

Dome Drive Aluminum, thermo plastic

Bubble Acrylic

Light Attenuation

Smoked f/0.5 light loss
Clear Zero light loss
Chrome f/2.0 light loss
Gold f/2.0 light loss

Cable Entry (Back Box) In-Ceiling and

Surface Mount 0.75-inch conduit fitting

Pendant Through 1.5-inch NPT pendant mount

Weight (approximate) Shipping Unit Back Box Surface Mount 0.7 lb (0.32 kg) 2 lb (0.90 kg) In-Ceiling 1.5 lb (0.68 kg) 2 lb (0.90 kg) Environmental In-Ceiling 2.1 lb (0.95 kg) 3 lb (1.36 kg) Standard Pendant 2.4 lb (1.09 kg) 4 lb (1.81 kg) **Environmental Pendant** 3.5 lb (1.59 kg) 5 lb (2.27 kg) 5 lb (2.27 kg) Dome Drive 3.3 lb (1.48 kg) Lower Dome Surface Mount 0.4 lb (0.18 kg) 1 lb (0.45 kg) In-Ceiling 0.2 lb (0.09 kg) 1 lb (0.45 kg) Pendant and Environmental In-Ceiling 0.6 lb (0.27 kg) 2 lb (0.90 kg)

Environment

Surface Mount Indoor In-Ceiling Indoor Environmental In-Ceiling Outdoor

Pendant, Standard

and Environmental Indoor/outdoor

Operating Temperature Surface Mount and

Indoor In-Ceiling
Standard Pendant
Maximum
Minimum

32° to 122°F (0° to 50°C)
(Assumes no wind chill factor)
113°F (45°C) absolute maximum;
95°F (35°C) sustained maximum
25°F (-4°C) sustained minimum

Minimum Environmental

In-Ceiling and Environmental Pendant

vironmental Pendant (Assumes no wind chill factor)

Maximum (Assumes no wind chill factor)

140°F (60°C) absolute maximum;

122°F (50°C) sustained maximum

Minimum —60°F (-51°C) absolute minimum; prevents icing at sustained minimum of -50°F (-45°C); de-ices 0.1 inch (2.5 mm) within 3 hours after

power-up

Effective Projected

Area (EPA) 20.5 square inches (without mount)

47 square inches (with IWM Series mount)

RELATED PRODUCTS

OPTIONAL ACCESSORIES

TXB-IP Series*

DD5-FM Fixed camera mount adapter. Interchangeable

with all Spectra IV dome drives.

IPS-RMK Remote monitor kit. Stand-alone kit

consisting of a 5.6-inch TFT-LCD monitor, Palm™ OS compatible handheld, cables, and carrying case. Allows viewing of camera video, local PTZ control, system setup, and system software upgrades at any installed

dome

IPS-CABLE Remote monitor cable and software kit

consisting of the Spectra IV remote monitor interface cable and necessary software for use with a PC (Windows® 95, Windows 98, Windows Me, Windows 2000), Palm OS compatible handheld or iPaq™ Series Pocket PC. Refer to www.pelco.com for a list of

compatible devices.

IPS-RDPE-2* Remote data port. 24 VAC, wall/pole mount

video/data breakout box. Allows ground-level control/configuration and Spectra IV OS software upgrades when used with the

IPS-RMK or IPS-CABLE.

TXB Series* Translator boards for AD™ Manchester.

Hernis, Bosch® (Philips, Burle), TASS, and

NTCIP protocols.

Communication module that allows you to control and monitor Spectra IV dome systems over an IP network (in-ceiling and pendant

models only).

Fiber transmitter sends one unidirectional FS85011A*

composite video channel and one bidirectional data channel over one multimode or single-mode fiber optical cable.

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

RECOMMENDED MOUNTS

Surface Mount Domes

PASMB Pendant adapter for surface mount dome.

black

SD53SM-P 2' x 2' drop ceiling panel for BB4-SMW Series

back boxes. Replaces 2' x 2' ceiling tile.

Aluminum construction.

In-Ceiling Domes

SD5-P 2' x 2' drop ceiling panel, aluminum

construction. Replaces 2' x 2' ceiling tile.

SCA1 Support rails for BB4-F; for use in ceiling tile

applications.

Pendant Domes

BB5-PCA-BK[†] Pendant conduit adapter, black BB5-PCA-GY[†] Pendant conduit adapter, gray

IWM Series Wall mount, with or without integral 24 VAC,

100 VA transformer. Black or gray finish. Can be adapted for corner, parapet or pole

applications.

MRCA Ceiling mount, black PP4348 Parapet roof mount PP350/PP351 Parapet wall/roof mount

SWM Series Compact wall mount, black or gray finish.

Can be adapted for corner or pole

applications.

RECOMMENDED POWER SUPPLIES

MCS Series Indoor, 24 VAC power supply WCS Series Outdoor, 24 VAC power supply

Refer to individual power supply specifications for more information.



IPS-RMK REMOTE MONITOR KIT



FS85011A FIBER MODULE

[†] Not suitable for use with heavy-duty, pressurized, or stainless steel Spectra

SYSTEM AND COMPONENT MODELS

SYSTEM MODEL NUMBERS

Туре	Back Box Color	Lower Dome	23X Day/Night*
Surface Mount	White	Smoked	SD423-SMW-0
		Clear	SD423-SMW-1
		Chrome	SD423-SMW-2
		Gold	SD423-SMW-3
	Black	Smoked	SD423-SMB-0
		Clear	SD423-SMB-1
		Chrome	SD423-SMB-2
		Gold	SD423-SMB-3
In-Ceiling, Indoor	Black	Smoked	SD423-F0
		Clear	SD423-F1
		Chrome	SD423-F2
		Gold	SD423-F3
In-Ceiling, Environmental [†]	Black	Smoked	SD423-F-E0
		Clear	SD423-F-E1
Pendant, Standard	Black	Smoked	SD423-PB-0
		Clear	SD423-PB-1
		Chrome	SD423-PB-2
		Gold	SD423-PB-3
	Lt. Gray	Smoked	SD423-PG-0
		Clear	SD423-PG-1
		Chrome	SD423-PG-2
		Gold	SD423-PG-3
Pendant, Environmental†	Lt. Gray	Smoked	SD423-PG-E0
		Clear	SD423-PG-E1

COMPONENT MODEL NUMBERS

Back Box		Dome Drive*		Lower Dome [‡]	
BB4-SMB BB4-SMW BB4-F BB4-F-E BB4-PB BB4-PG BB4-PG-E	Surface mount, black Surface mount, white In-ceiling, black In-ceiling, black, environmental Pendant mount, black, standard Pendant mount, gray, standard Pendant mount, gray, environmental	DD423 DD5-FM	Day/Night (NTSC) camera (23X) Removable, fixed mount bracket only (camera and lens not included). Interchangeable with all Spectra IV dome drives.	LD53SMB-0 LD53SMB-1 LD53SMB-2 LD53SMB-3 LD53SMW-0 LD53SMW-1 LD53SMW-2 LD53SMW-3	Smoked, surface, black Clear, surface, black Chrome, surface, black Gold, surface, black Smoked, surface, white Clear, surface, white Chrome, surface, white Gold, surface, white
Notes: To order a fixed mount dome system refer to the component models above and select one each of the following options: back box (BB4-F), dome drive (DD5-FM), plus choice of lower dome (LD5F-0, LD5F-1, LD5F-2, or LD5F-3). For environmental applications, you must order an environmental back box (BB4-F-E) or (BB4-PG-E). DD5-FM is ideal for use with Pelco's C10DN-6, C10DN-6X, C10CH-6, C10CH-6X, CCC1390H-6, and CCC1390H-6X cameras with selected Pelco lenses.				LD5F-0 Smoked, in-ceiling LD5F-1 Clear, in-ceiling LD5F-2 Chrome, in-ceiling LD5F-3 Gold, in-ceiling LD53PB-0 Smoked, pendant, black LD53PB-1 Clear, pendant, black LD53PB-2 Chrome, pendant, black LD53PB-3 Gold, pendant, black	Clear, in-ceiling Chrome, in-ceiling Gold, in-ceiling Smoked, pendant, black Clear, pendant, black

^{*}For PAL and CCIR models add "-X" suffix to part number. (Example: SD423-SMW-0-X)

[†]Environmental dome systems include a heater, fan, and the environmental pendant also includes a sun shield.

 $^{{}^{\}ddagger}\text{Use}$ the pendant lower domes with the environmental in-ceiling and environmental pendant back boxes.

[§]Not recommended for outdoor use due to possible light reflections.