

Spectra III™ SE Series Dome Systems

PREMIER INTEGRATED DOME SYSTEM

Product Features

- Three Auto Focus, High-Resolution Integrated Camera/Optics Packages; Five Back Box Models
- Day/Night, 80X Wide Dynamic Range, and Motion Detection (SD53CBW Series)
- Built-in Back Box Memory
- ExView HAD™ CCD (SD53M22 and SD53C22 Series)
- Window Blanking
- Camera Title Overlay, 20 User-Definable Characters
- · Horizontal and Zone Blanking
- RJ-45 Data Port for Software Update and Setup
- · On-Screen Compass and Tilt Display
- Multilanguage On-Screen Menus
- Password Protection
- · Freeze Frame During Presets
- 7 Alarm Inputs; 2 Programmable Auxiliary Outputs
- Built-in Surge and Limited Lightning Protection

Spectra III SE features multiple back box configurations and three auto focus, high-resolution dome drives with programmable software.

Spectra III SE's back box options include an environmental in-ceiling model that is ideal for outdoor soffits, an indoor surface mount, indoor in-ceiling model, and pendant styles for standard and environmental installations. Each back box model features built-in memory to store camera and location-specific dome settings, including labels, presets, patterns, and zones. These settings are automatically downloaded if a new dome drive is installed.

All cameras in **Spectra III SE** dome drives feature LowLight[™] Technology. The day/night model features a 23X lens, built-in motion detection and 80X wide dynamic range imager. Two standard cameras, available in color or black-white, with a 22X lens and EXview HAD[™] imager for increased sensitivity.

Spectra III SE dome systems feature many software enhancements that increase performance and make programming and operation easy. Window blanking allows a user to program up to eight, four-sided, user-defined privacy areas. Password protection prevents unauthorized users from changing the system settings.







PENDANT MODEL

- Optional UTP Video Converter
- Compatible with Pelco's FS85011 and Third-Party Fiber Optic Transmitters
- · Heavy-Duty and Stainless Steel Models Available

Other features include an on-screen compass and tilt display; multi-language menus for English, Spanish, Portuguese, Italian, French, and German; optional menus for Russian, Polish, Turkish, and Czechoslovakian; and an RJ-45 data port for software up-loads and on-site setup and programming.

Spectra III SE's variable speed capabilities range from a smooth, fast pan motion of 360 degrees per second to a smooth "creep" speed of 0.1 degree per second. The system is capable of 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.

Optional diagnostic/installation tools include a remote monitor kit (IPS-RMK) and a remote monitor cable (IPS-CABLE). These accessories allow the installer to view video, control PTZ, and perform system setup and software upgrades at the installation site. The IPS-RMK is a stand-alone kit consisting of a 5.6-inch TFT-LCD monitor, Palm™ OS compatible handheld and interface cable, carrying case, and the remote monitor cable (IPS-CABLE).

Also available are video conversion modules for applications using unshielded twisted pair (UTP) and fiber. See *OPTIONAL ACCESSORIES* for information.



IP66









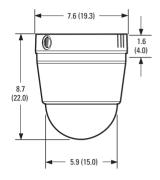
COMPONENT FEATURES

Back Box and Lower Dome

Surface Mount (Indoor)

- Built-in Memory Stores Camera/Dome Settings
- Available in Black or White Finish
- . Installs Quickly and Easily to Any Type of Ceiling
- · Quick Disconnect to Dome Drive
- Injection-Molded Plastic
- 5.9-Inch Acrylic Bubble

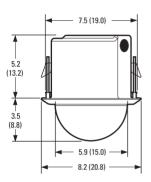




In-Ceiling (Indoor)

- Built-in Memory Stores Camera/Dome Settings
- Single Back Box for Suspended or Hard Ceiling Applications
- Requires 5.25-Inch Space Above Ceiling and 3.25 Inches Below
- 5.9-Inch Acrylic Bubble
- Minimum Ceiling Thickness 0.5-Inch; Maximum 1.75 Inches
- Quick Disconnect to Dome Drive
- Meets NEMA Type 1, IP40 Standards
- Aluminum Construction
- Suitable for Use in Environmental Air Handling Spaces

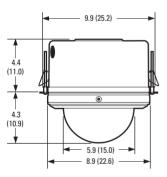




Environmental In-Ceiling

- Built-in Memory Stores Camera/Dome Settings
- 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
- 5.9-Inch Acrylic Bubble
- Quick Disconnect to Dome Drive
- Meets NEMA Type 4X, IP66 Stardards
- Aluminum Construction



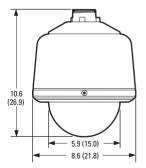


Standard and Environmental Pendant

- Standard and Environmental Models
- Built-in Memory Stores Camera/Dome Settings
- Standard Pendant Available in Black or Gray Finish; Environmental Pendant Gray Finish Only
- Quick Disconnect to Dome Drive
- Meets NEMA Type 4X, IP66 Standards
- Aluminum Construction
- 5.9-Inch Acrylic Bubble
- 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

Dome Drive

- 150 Presets, 131 User-Definable and 19 Predefined
- ±0.1° Preset Accuracy
- Multilanguage Menus (English, Spanish, Portuguese, Italian, French, and German)
- Alternate Language Files (includes Russian, Polish, Turkish, and Czechoslovakian) Available as Optional Software Upload
- RJ-45 Data Port for Software Update and Setup
- On-Screen Compass, Tilt, and Zoom Display
- Password Protection
- 360°/sec Pan Preset Speed and 200°/sec Tilt Preset Speed
- Rotating Discreet Liner with Sealed Fixed Bubble
- Window Blanking Up to Eight, Four-Sided, User-Defined Shapes
- Eight Zones (programmable in size) Can Be Labeled with Up to 20 Characters Each or Set to Output Blank Video
- · Seven Alarm Inputs
- One Auxiliary (Form C) Relay Output and One Open Collector Auxiliary Output (can be alternately programmed to operate upon alarm)
- Programmable Locations of Labels and On-Screen Displays
- Action on Alarm Alarms can be individually programmed for three priority levels, to initiate a stored pattern, or to go to an associated preset when received
- Resume After Alarm Allows the dome to return to a previously programmed state after alarm acknowledgement or to its previous position before alarm
- Patterns Up to four, on-screen, user-defined programmable patterns. Includes pan, tilt, zoom, and preset functions
- Proportional Pan and Tilt Continually decreases pan and tilt speeds in proportion to depth of zoom
- Variable Scan Speed Scan speed can be programmable between 1-40°/sec
- Pan Motion Allows 0.1-150°/sec Pan Speed
- Programmable Limit Stops for Auto/Random/Frame Scan Modes
- Auto-sensing Protocol (Coaxitron®, RS-422 P and D); Accepts Competitive Control Protocol with Optional Translator Card
- Digital Position and Zoom Control and Feedback Via D Protocol
- Built-in Menu System for Setup of Programmable Functions
- "Auto Flip" Rotates Dome 180° at Bottom of Tilt Travel
- Programmable Zoom Speeds

MECHANICAL (Dome Drive Only)

Pan Movement 360° continuous pan rotation Vertical Tilt Unobstructed +2° to -92°

Manual Pan/Tilt Speeds

Pan 0.1°-80°/sec manual operation,

150°/sec Turbo

Tilt 0.1°-40°/sec manual operation

Preset Speeds

Pan 360°/sec Tilt 200°/sec

> For variable-speed operation an appropriate controller is required. (With non-variable speed control, Spectra III® pan/tilt speed is

20°/sec)

ELECTRICAL

18-30 VAC; 24 VAC nominal Input Voltage Input Power 25 VA nominal (without heater); 70 VA nominal (with heater)

1.25 A Fuse **Auxiliary Outputs** 2 Alarm Inputs

GENERAL

Construction Back Box

Surface Mount Plastic In-Ceilina Aluminum Pendant Aluminum

Aluminum, thermo plastic Dome Drive

Bubble Acrvlic

Light Attenuation

Smoked 1/2 F-stop light loss Zero light loss Clear Chrome 2 F-stops light loss Gold 2 F-stops light loss

Cable Entry (Back Box) In-Ceiling and

Surface Mount 0.75-inch conduit fitting

Through 1.5-inch NPT pendant mount Pendant

Weight (approximate) Unit Shipping Back Box Surface Mount 2 lb (0.90 kg) 0.7 lb (0.32 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) Dome Drive 2.4 lb (1.09 kg) 4 lb (1.81 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

Operating Temperature Surface Mount and

> 32° to 122°F (0° to 50°C) Indoor In-Ceiling Standard Pendant (Assumes no wind chill factor) Maximum 113°F (45°C) absolute maximum; 95°F (35°C) sustained maximum 25°F (-4°C) sustained minimum Minimum

Indoor/outdoor

Environmental In-Ceiling and

Environmental Pendant (Assumes no wind chill factor) Maximum 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) 72 square inches (without mount)

118 square inches (with IWM Series mount)

CERTIFICATIONS/RATINGS/PATENTS

- · CE, Class B
- III Listed
- UL Listed to Canadian safety standards
- Complies with Argentina compliance requirements under Res. 92/98
- U.S. Patents 5.931.432: 6.793.415 B2: 6.802.656 B2: 6.821.222 B2

Meets the following standards:

- NEMA Type 4X, IP66 when installed properly (BB53-F-E, BB53-PB, BB53-PG, and BB53-PG-E)
- NEMA Type 1, IP40 (BB53-SMW, BB53-SMB and BB53-F)

TECHNICAL SPECIFICATIONS

CAMERA/OPTICS

	Day/Night (23X)	Color (22X)	Black-White (22X)	
Signal Format	NTSC (DD53CBW) PAL (DD53CBW-X)	NTSC (DD53C22) PAL (DD53C22-X)	EIA (DD53M22) CCIR (DD53M22-X)	
Scanning System	2:1 Interlace	2:1 Interlace	2:1 Interlace	
Image Sensor Effective Pixels NTSC PAL	1/4-inch CCD 724 (H) X 494 (V) 724 (H) X 582 (V)	1/4-inch EXview HAD™ CCD 768 (H) X 494 (V) 752 (H) X 582 (V)	1/4-inch EXview HAD™CCD 768 (H) X 494 (V) 752 (H) X 582 (V)	
Horizontal Resolution NTSC PAL	>470 TV Lines >470 TV Lines	>470 TV Lines >460 TV Lines	>500 TV Lines >500 TV Lines	
Lens	F1.6 (f = 3.6~82.8 mm optical)	F1.6 (f = 4~88 mm optical)	F1.6 (f = 4~88 mm optical)	
Zoom	23X optical, 10X digital	22X optical, 12X digital	22X optical, 12X digital	
Zoom Speed (optical range)	2.9/4.2/5.8 seconds	2.4/3.9/6.3 seconds	2.4/3.9/6.3 seconds	
Horizontal Angle of view Focus	54° at 3.6 mm wide zoom; 2.5° at 82.8 mm telephoto zoom Automatic with manual override	47° at 4.0 mm wide zoom; 2.2° at 88 mm telephoto zoom Automatic with manual override	47° at 4.0 mm wide zoom; 2.2° at 88 mm telephoto zoom Automatic with manual override	
Maximum Sensitivity @35 IRE NTSC/EIA PAL/CCIR	0.08 lux at 1/2 sec (color) 0.3 lux at 1/60 sec shutter (B-W) 0.013 lux at 1/2 sec (B-W) 0.08 lux at 1/1.5 sec (color) 0.3 lux at 1/50 sec shutter (B-W) 0.013 lux at 1/1.5 sec (B-W)	0.02 lux at 1/2 sec shutter 0.02 lux at 1/1.5 sec shutter	0.005 lux at 1/2 sec shutter 0.005 lux at 1/1.5 sec shutter	
Sync System	Internal/AC line lock, phase adjustable via remote control, V-Sync	Internal/AC line lock, phase adjustable via remote control, V-Sync	Internal/AC line lock, phase adjustable via remote control, V-sync	
White Balance	Automatic with manual override	Automatic with manual override	_	
Shutter Speed NTSC PAL	Automatic (electronic iris)/Manual 1/2 ~1/30,000 1/1.5 ~1/30,000	Automatic (electronic iris)/Manual 1/2 ~1/30,000 1/1.5 ~1/30,000	Automatic (electronic iris)/Manual 1/2 ~1/30,000 1/1.5 ~1/30,000	
Iris Control	Automatic Iris Control with manual override	Automatic Iris Control with manual override	Automatic Iris Control with manual override	
Gain Control	Automatic/OFF	Automatic/OFF	Automatic/OFF	
Video Output	1 Vp-p, 75 ohms	1 Vp-p, 75 ohms	1 Vp-p, 75 ohms	
Video Signal to Noise	>50 dB	>50 dB	>48 dB	
Wide Dynamic Range	80X	_	_	

WINDOW BLANKING

Window blanking allows a user to program up to eight, four-sided, user-defined areas that cannot be viewed by the operator of the dome system. A blanked area will move with pan and tilt functions and automatically adjust in size as the lens zooms telephoto and wide.



BEFORE





BEFORE



WIDE DYNAMIC RANGE

The Wide Dynamic Range (WDR) setting balances the brightest and darkest sections of a scene to produce a picture that provides more detail. The range from the darkest to the brightest sections of the scene is 80X more when WDR is ON than when OFF.

AFTER

TECHNICAL SPECIFICATIONS

OPTIONAL ACCESSORIES

DD5-FM Fixed camera mount adapter. Interchangeable

with all Spectra III dome drives.

IPS-RMK Remote monitor kit. Stand-alone kit consist-

ing 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 III remote monitor interface cable and necessary software for use with a PC (Windows® 95, 98, Me, 2000), Palm $^{\mathbb{M}}$ OS compatible handheld or iPaq $^{\mathbb{M}}$

Series Pocket PC.

See 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/programming and Spectra III OS software upgrades when used with the

IPS-RMK or IPS-CABLE.

TXB Series* Translator boards for AD Manchester,

Bosch (Philips, Burle), Sensormatic, Vicon,

and NTCIP protocols.

VC-UTP Converts video for use with unshielded

twisted pair (UTP); maximum distance to passive receiver 500 feet (152 m). Plugs into TXB connector in Spectra back box. Coaxitronready when used with passive receiver. Works with all major suppliers of UTP modules. Not for use in conjunction with TXB

boards.

FS85011* Fiber transmitter sends one unidirectional

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

*If TXB or FS85011 boards are installed, remote upload of system software will not be possible.



FS85011 FIBER MODULE

RECOMMENDED MOUNTS

Surface Mount Domes

PASMB Pendant adapter for surface mount dome,

black

SD53SM-P 2' x 2' drop ceiling panel for BB53-SMW and

BB53T-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 BB53-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
MRWA Wall 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.

^{**}Not suitable for use with heavy-duty, pressurized, or stainless steel Spectra



IPS-RMK REMOTE MONITOR KIT

SYSTEM MODELS AND RELATED PRODUCTS

SYSTEM MODEL NUMBERS

Туре	Back Box Color	Lower Dome	23X Day/Night*	22X Color*	22X Black-White*
Surface Mount	White	Smoked	SD53CBW-SMW-0	SD53C22-SMW-0	SD53M22-SMW-0
		Clear	SD53CBW-SMW-1	SD53C22-SMW-1	SD53M22-SMW-1
		Chrome	SD53CBW-SMW-2	SD53C22-SMW-2	SD53M22-SMW-2
		Gold	SD53CBW-SMW-3	SD53C22-SMW-3	SD53M22-SMW-3
	Black	Smoked	SD53CBW-SMB-0	SD53C22-SMB-0	SD53M22-SMB-0
		Clear	SD53CBW-SMB-1	SD53C22-SMB-1	SD53M22-SMB-1
		Chrome	SD53CBW-SMB-2	SD53C22-SMB-2	SD53M22-SMB-2
		Gold	SD53CBW-SMB-3	SD53C22-SMB-3	SD53M22-SMB-3
In-Ceiling, Indoor	Black	Smoked	SD53CBW-F0	SD53C22-F0	SD53M22-F0
		Clear	SD53CBW-F1	SD53C22-F1	SD53M22-F1
		Chrome	SD53CBW-F2	SD53C22-F2	SD53M22-F2
		Gold	SD53CBW-F3	SD53C22-F3	SD53M22-F3
In-Ceiling, Environmental**	Black	Smoked	SD53CBW-F-E0	SD53C22-F-E0	SD53M22-F-E0
		Clear	SD53CBW-F-E1	SD53C22-F-E1	SD53M22-F-E1
Pendant, Standard	Black	Smoked	SD53CBW-PB-0	SD53C22-PB-0	SD53M22-PB-0
		Clear	SD53CBW-PB-1	SD53C22-PB-1	SD53M22-PB-1
		Chrome	SD53CBW-PB-2	SD53C22-PB-2	SD53M22-PB-2
		Gold	SD53CBW-PB-3	SD53C22-PB-3	SD53M22-PB-3
	Lt. Gray	Smoked	SD53CBW-PG-0	SD53C22-PG-0	SD53M22-PG-0
		Clear	SD53CBW-PG-1	SD53C22-PG-1	SD53M22-PG-1
		Chrome	SD53CBW-PG-2	SD53C22-PG-2	SD53M22-PG-2
		Gold	SD53CBW-PG-3	SD53C22-PG-3	SD53M22-PG-3
Pendant, Environmental**	Lt. Gray	Smoked	SD53CBW-PG-E0	SD53C22-PG-E0	SD53M22-PG-E0
		Clear	SD53CBW-PG-E1	SD53C22-PG-E1	SD53M22-PG-E1

^{*}For PAL and CCIR models add "-X" suffix to part number. (Example: SD53C22-PG-E0-X)

COMPONENT MODEL NUMBERS

Back Box		Dome Drive		Lower Dome***	
BB53-SMB Surface mount, black Surface mount, white BB53-F In-ceiling, black, environmental BB53-PB Pendant mount, black, environmental Pendant mount, gray, standard Pendant mount, gray, environmental		DD53CBW Day/Night (NTSC) camera (23X) DD53CBW-X Day/Night (PAL) camera (23X) DD53C22 Color (NTSC) camera (22X) DD53C22-X Color (PAL) camera (22X) DD53M22 Black-White (EIA) camera (22X) DD53M22-X Black-White (CCIR) camera (22X) DD5-FM Removable, fixed mount bracket only (camera and lens not included). Interchangeable with all Spectra III dome drives.	LD53SMB-0 LD53SMB-1 LD53SMB-2 LD53SMW-3 LD53SMW-0 LD53SMW-1 LD53SMW-2 LD53SMW-3 LD5F-0	Smoked, surface, black Clear, surface, black Chrome, surface, black Gold, surface, black Smoked, surface, white Clear, surface, white Chrome, surface, white Gold, surface, white Smoked, in-ceiling Clear, in-ceiling	
Notes: To order a fixed mount dome system refer to the component models above and select one each of the following: back box (BB53-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 (BB53-F-E) or (BB53-PG-E). DD5-FM is ideal for use with Pelco's CCC1380/CCC1390/MCC1380 Series cameras with selected Pelco lenses.					Chrome, in-ceiling Gold, in-ceiling Smoked, pendant, black Clear, pendant, black Chrome, pendant, black**** Gold, pendant, black****

^{***}Use the pendant lower domes with the environmental in-ceiling and environmental pendant back boxes.

^{**}Environmental dome systems include a heater, fan, and the environmental pendant also includes a sun shield.

^{****}Not recommended for outdoor use due to possible light reflections.