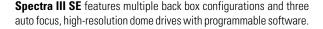


Spectra III™ SE Series Dome Systems

PREMIER INTEGRATED DOME SYSTEM

Product Features

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



Spectra III SE's back box models feature 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. Two new back box models have been added to the line: an environmental in-ceiling model for outdoor soffits and an indoor surface mount model that installs quickly and easily to any type of ceiling.

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

Spectra III SE dome systems feature many new 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.



SURFACE MOUNT MODEL



PENDANT MODEL

- Optional UTP Video Converter
- · Third-Party Fiber Modules
- · Heavy-Duty and Stainless Steel Models Available

Other new features include an on-screen compass and tilt display; Multi-Language menus programmable for English, Spanish, Portuguese, Italian, French, and German; and an RJ-45 data port for software uploads 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 .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.

Spectra III SE's remote monitor kit **(IPS-RMK)** and remote monitor cable **(IPS-CABLE)** are optional diagnostic/installation tools. 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™ m105 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.



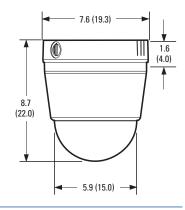


COMPONENT FEATURES

Surface Mount (Indoor), Back Box and Lower Dome

- 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

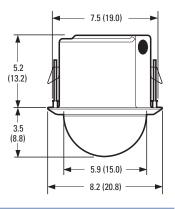




In-Ceiling (Indoor), Back Box and Lower Dome

- 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 .5-Inch; Maximum 1.75 Inches
- · Quick Disconnect to Dome Drive
- Meets NEMA 1, IP40 Standards
- · Aluminum Construction
- Suitable for Use in Environmental Air Handling Spaces

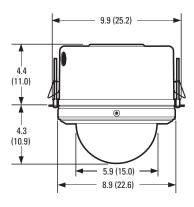




Environmental In-Ceiling, Back Box and Lower Dome

- 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 .5-Inch; Maximum 1.75 Inches
- 5.9-Inch Acrylic Bubble
- Quick Disconnect to Dome Drive
- Meets NEMA 4X, IP66 Stardards
- Aluminum Construction



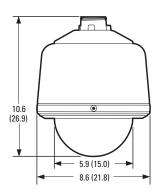


Standard and Environmental Pendant, Back Box and Lower Dome

- Standard and Environmental Models
- Built-in Memory Stores Camera/Dome Settings
- Available in Black or Gray Finish
- Quick Disconnect to Dome Drive
- Meets NEMA 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

- 80 Presets with Camera Settings and Labels
- ±0.1° Preset Accuracy
- Multi-Language Menus (English, Spanish, Portuguese, Italian, French, and German)
- Alternate Language Files (includes Russian, Polish, Turkish) 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 & 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
- Built-in Menu System for Setup of Programmable Functions
- "Auto Flip" Rotates Dome 180° at Bottom of Tilt Travel

GENERAL

Construction						
Back Box						

Surface Mount Plastic In-ceiling Aluminum Pendant Aluminum

Dome Drive Aluminum, thermo plastic

Lower Dome Acrylic

Light Attenuation

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

Cable Entry (Back Box) In-Ceiling and

Surface Mount .75-inch conduit fitting

Pendant Through 1.5-inch NPT pendant mount Weight (approximate) Shipping <u>Unit</u> Back Box Surface Mount .7 lb (.32 kg) 2 lb (.9 kg) In-Ceiling 1.5 lb (.68 kg) 2 lb (.9 kg) **Environmental In-Ceiling** 2.1 lb (.95 kg) 3 lb (1.36 kg) Pendant Indoor 2.4 lb (1.09 kg) 4 lb (1.81 kg) 5 lb (2.27 kg) **Environmental Pendant** 3.5 lb (1.59 kg) Dome Drive 2.4 lb (1.09 kg) 4 lb (1.81 kg) Lower Dome (.18 kg) Surface Mount .4 lb 1 lb (.45 kg) In-Ceiling .2 lb (.09 kg)1 lb (.45 kg) Pendant and **Environmental In-Ceiling** .6 lb (.27 kg) 2 lb (.9 kg)

Environment

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

Pendant Standard

and Environmental Indoor/Outdoor

Operating Temperature Surface Mount and

In-Ceiling Indoor
Standard Pendant
Maximum
Minimum
Sor (45°C) absolute 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

Environmental In-Ceiling and

Minimum

Environmental Pendant (Assumes no wind chill factor)
Maximum 140°F (60°C) absolute maximum;

122°F (50°C) sustained maximum -60°F (-51°C) absolute minimum; Prevents icing at sustained minimum of

-50°F (-45°C); de-ices .1 inch (2.5 mm) within

3 hours after power-up.

Effective Projected

Area (EPA) ~175 square inches

TECHNICAL SPECIFICATIONS

(Dome Drive Only)

Unobstructed +2° to -92°

360° Continuous pan rotation

0.1°-40°/sec manual operation

MECHANICAL

Pan Movement
Vertical Tilt
Manual Pan (Tilt Speeds

Manual Pan/Tilt Speeds Pan

Turbo Tilt

Tilt 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

0.1°-80°/sec manual operation, 150°/sec

20°/sec)

ELECTRICAL

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

Fuse 1.25A Auxiliary Outputs 2 Alarm Inputs 7

CERTIFICATIONS

- CE, Class B
- UL Listed

IPS-CABLE

- UL Listed to Canadian safety standards
- FCC, Class B

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)

OPTIONAL ACCESSORIES

IPS-RMK Spectra III Remote Monitor Kit. Stand alone

kit consisting of a 5.6-inch TFT-LCD monitor, Palm™ m105 handheld, cables and carrying case. Allows viewing of camera video, local PTZ control, system setup, and system software upgrades at any installed dome.

Spectra III 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 Series handheld or iPaq™ Series Pocket PC.

See www.pelco.com for a list of compatible

devices.

TXB Series Translator boards for AD Manchester, Philips (Burle). Sensormatic and Vicon® 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. Coaxitron-ready when used with passive receiver. Works with all major suppliers of UTP modules. Not for use in conjunction

with TXB boards.

FIBER COMPATIBLE PRODUCTS

Fiber optic video transmitter/data receiver modules are available through IFS and Fiber Options. Fiber optic modules plug directly into the TXB connector inside Spectra III SE and Spectra III back boxes. Fiber optics modules cannot be used with TXB translator boards.

RECOMMENDED MOUNTS

Surface Mount Domes

PASMB Pendant adapter for surface mount dome, SD53SM-P black 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
BB5-PCA-GY
Pendant conduit adapter, black
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.



IPS-RMK REMOTE MONITOR KIT

TECHNICAL SPECIFICATIONS

CAMERA/OPTICS

	Color/Black-White (23X)	Color (22X)	Monochrome (22X)	
Signal Format	NTSC (DD53CBW) PAL (DD53CBW-X)	NTSC (DD53C22) PAL (DD53C22-X)	EIA (DD53M22) CCIR (DD53M22-X)	
Scanning System	Progressive (2:1 Interlace output)	2:1 Interlace	2:1 Interlace	
Image Sensor Effective pixels NTSC PAI	1/4-inch CCD 724 (H) X 494 (V) 724 (H) X 582 (V)	1/4-inch Ex-View HAD™ CCD 768 (H) X 494 (V) 752 (H) X 582 (V)	1/4-inch Ex-View 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 = 3.6~82.8mm optical)	F1.6 (f = 4~88mm optical)	F1.6 (f = 4~88mm optical)	
Zoom	23X optical, 10X electronic	22X optical, 12X electronic	22X optical, 12X electronic	
Zoom Speed	4.2 seconds	3.9 seconds	3.9 seconds	
Horizontal Angle of view Focus	54° at 3.6mm wide zoom; 2.5° at 82.8mm telephoto zoom Automatic with manual override	47° at 4.0mm wide zoom; 2.2° at 88mm telephoto zoom Automatic with manual override	47° at 4.0mm wide zoom; 2.2° at 88mm 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	>48 dB	>48 dB	
Wide Dynamic Range	80X	_	_	

WINDOW BLANKING

Window blanking allows a user to program up to eight, four-sided, userdefined 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





AFTER



BEFORE



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.

WIDE DYNAMIC RANGE



AFTER

SYSTEM MODELS AND RELATED PRODUCTS

SYSTEM MODEL NUMBERS

Туре	Back Box Color	Lower Dome	23X Color/B-W*	22X Color*	22X Monochrome*
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-SMW	Surface mount, white	DD53CBW	Color/B&W (NTSC/EIA) camera (230X)	LD53SMW-0	Smoked, surface, white
BB53-SMB	Surface mount, black	DD53CBW-X	Color/B&W (PAL/CCIR) camera (230X)	LD53SMW-1	Clear, surface, white
BB53-F	In-ceiling, black	DD53C22	Color (NTSC) camera (264X)	LD53SMW-2	Chrome, surface, white
BB53-F-E	In-ceiling, black, environmental	DD53C22-X	Color (PAL) camera (264X)	LD53SMW-3	Gold, surface, white
BB53-PB	Pendant mount, black, standard	DD53M22	Monochrome (EIA) camera (264X)	LD53SMB-0	Smoked, surface, black
BB53-PG	Pendant mount, gray, standard	DD53M22-X	Monochrome (CCIR) camera (264X)	LD53SMB-1	Clear, surface, black
BB53-PG-E	Pendant mount, gray, environmental	DD5-FM	Removable, fixed mount bracket only	LD53SMB-2	Chrome, surface, black
			(camera and lens not included)	LD53SMB-3	Gold, surface, black
		LD5F-0	Smoked, in-ceiling		
Notes:		LD5F-1	Clear, in-ceiling		
	mount dome system, refer to the component	LD5F-2	Chrome, in-ceiling		
(BB53-F), dome	drive (DD5-FM), plus choice of lower dome (L	LD5F-3	Gold, in-ceiling		
		LD53PB-0	Smoked, pendant, black		
For environmental applications, you must order an environmental back box (BB53-F-E) or (BB53-PG-E).				LD53PB-1	Clear, pendant, black
		LD53PB-2	Chrome, pendant, black****		
DD5-FM is ideal for use with Pelco CCC1370H-2, CCC1370H-2X, and MCC1370H-2 cameras with selected Pelco lenses.				LD53PB-3	Gold, pendant, black****

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



www.pelco.com

^{**}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.