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
- 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 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.







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; multilanguage 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 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.

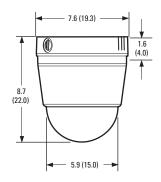


COMPONENT FEATURES

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

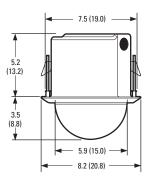




In-Ceiling (Indoor), Back Box and Lower Dome

- 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 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

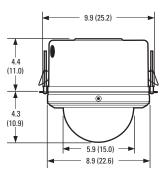




Environmental In-Ceiling, Back Box and Lower Dome

- 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 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



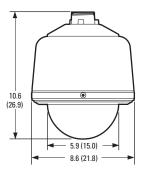


Standard and Environmental Pendant, Back Box and Lower Dome

- 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

- 80 Presets with Camera Settings and Labels
- ±0.1° Preset Accuracy
- Multilanguage Menus (English, Spanish, Portuguese, Italian, French, and German)
- Alternate Language Files (includes Russian, Polish, Turkish, Czechoslovakian, and Dutch) 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

GENERAL

| Construction | | | | |
|--------------|--|--|--|--|
| Back Box | | | | |

Surface Mount Plastic In-ceiling Aluminum Pendant Aluminum

Dome Drive Aluminum, thermo plastic

Bubble 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 0.75-inch conduit fitting

Pendant Through 1.5-inch NPT pendant mount

Weight (approximate) Unit Shipping Back Box Surface Mount 0.7 lb (0.32 kg) 2 lb (0.90 kg) In-Ceilina 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) Pendant Indoor 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 Indoor/Outdoor

Operating Temperature
Surface Mount and

In-Ceiling Indoor
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

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) ~175 square inches

TECHNICAL SPECIFICATIONS

MECHANICAL

Pan Movement Vertical Tilt

Manual Pan/Tilt Speeds

Pan

Tilt

Preset Speeds Pan Tilt

(Dome Drive Only)

360° continuous pan rotation Unobstructed +2° to -92°

0.1°-80°/sec manual operation,

150°/sec Turbo

0.1°-40°/sec manual operation

360°/sec 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

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

CERTIFICATIONS/RATINGS/PATENTS

- CE, Class B
- UL Listed
- UL Listed to Canadian safety standards
- FCC, Class B
- U.S. Patent 5,931,432

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

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™ OS compatible handheld or iPaq™

Series Pocket PC

See www.pelco.com for a list of compatible

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.

Translator boards for AD Manchester, Philips TXB Series

(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. Coaxitronready 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 that plug directly into Spectra III SE and Spectra III back boxes are available through various manufacturers. Consult your fiber optics vendor for models and compatibility. Fiber optic modules cannot be used with TXB translator boards or VC-UTP.

RECOMMENDED MOUNTS

Surface Mount Domes

PASMB Pendant adapter for surface mount dome,

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 Pendant conduit adapter, black BB5-PCA-BK

BB5-PCA-GY Pendant conduit adapter, grav

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 | 1/4-inch CCD 724 (H) X 494 (V) | 1/4-inch EXview HAD™ CCD 768 (H) X 494 (V) | 1/4-inch EXview HAD™CCD 768 (H) X 494 (V) |
| PAL | 724 (H) X 582 (V) | 752 (H) X 582 (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 electronic | 22X optical, 12X electronic | 22X optical, 12X electronic |
| 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



AFTER

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.

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-SMB BB53-SMW BB53-F-E BB53-F-E BB53-PB BB53-PG BB53-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 | DD53CBW DD53CBW-X DD53C22 DD53C22-X DD53M22 DD53M22 DD53M22-X DD5-FM | Color/B-W (NTSC) camera (230X) Color/B-W (PAL) camera (230X) Color (NTSC) camera (264X) Color (PAL) camera (264X) Monochrome (EIA) camera (264X) Monochrome (CCIR) camera (264X) Removable, fixed mount bracket only (camera and lens not included). Interchangeable with all Spectra III dome drives. | LD53SMB-0 LD53SMB-1 LD53SMB-2 LD53SMW-0 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). | | | | | Chrome, in-ceiling Gold, in-ceiling Smoked, pendant, black |
| | ntal applications, you must order an e al for use with Pelco's CCC1370H-2, C | LD53PB-1 LD53PB-2 LD53PB-3 | Clear, pendant, black Chrome, pendant, black**** Gold, pendant, black**** | | |

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



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Vicon® is a registered trademark of Vicon Industries, Inc.
Spectra III™ and LowLight™ are trademarks of Pelco.
EXview HAD™ is a trademark of Sony Corporation.

^{**}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.