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 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.

Other features include an on-screen compass and tilt display; multilanguage 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.
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 Standards
- 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

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

Input Voltage 18-30 VAC; 24 VAC nominal
Input Power 25 VA nominal (without heater); 70 VA nominal (with heater)
Fuse 1.25 A
Auxiliary Outputs 2
Alarm Inputs 7

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

Option Entry (Back Box)
- In-Ceiling and Surface Mount 0.75-inch conduit fitting
- Pendant Through 1.5-inch NPT pendant mount

Weight (approximate)
<table>
<thead>
<tr>
<th>Unit</th>
<th>Shipping</th>
</tr>
</thead>
<tbody>
<tr>
<td>Back Box</td>
<td></td>
</tr>
<tr>
<td>Surface Mount</td>
<td>0.7 lb (0.32 kg)</td>
</tr>
<tr>
<td>In-Ceiling</td>
<td>1.5 lb (0.68 kg)</td>
</tr>
<tr>
<td>Environmental</td>
<td>2.1 lb (0.95 kg)</td>
</tr>
<tr>
<td>In-Ceiling</td>
<td>2.4 lb (1.08 kg)</td>
</tr>
<tr>
<td>Standard Pendant</td>
<td>3.5 lb (1.59 kg)</td>
</tr>
<tr>
<td>Environmental Pendant</td>
<td>2.4 lb (1.09 kg)</td>
</tr>
</tbody>
</table>

| 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 | 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 32° to 122°F (0° to 50°C)
- Standard Pendant (Assumes no wind chill factor) Maximum 113°F (45°C) absolute maximum; 95°F (35°C) sustained maximum
- Minimum 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)
- Without mount 72 square inches
- With IWM Series mount 118 square inches

CERTIFICATIONS/RATINGS/PATENTS
- CE, Class B
- UL Listed
- UL Listed to Canadian safety standards
- Complies with Argentina compliance requirements under Res. 92/98
- FCC, Class B
- 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, IP68 when installed properly (BB53-F, BB53-P8, BB53-PG, and BB53-PG-E)
- NEMA Type 1, IP40 (BB53-SMW, BB53-SMB and BB53-F)
## Technical Specifications

### Camera/Optics

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

### 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.

### 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.
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 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 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 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, 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. Coaxitron-ready 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.

RECOMMENDED MOUNTS

**Surface Mount Domes**
- **PASMB**
  - Pendant adapter for surface mount dome, black
- **SD5SM-P**

**In-Ceiling Domes**
- **SDS-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.

**FS85011 FIBER MODULE**

**IPS-RMK REMOTE MONITOR KIT**
<table>
<thead>
<tr>
<th>SYSTEM MODEL NUMBERS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SYSTEM MODELS AND RELATED PRODUCTS</strong></td>
</tr>
<tr>
<td><strong>COMPONENT MODEL NUMBERS</strong></td>
</tr>
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</table>

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

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

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

### 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.
- **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.

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