Spectra® IV IP Series Network Dome System
H.264, DIGITAL PAN/TILT/ZOOM HIGH-SPEED DOME

Product Features

- Ability to Control and Monitor Video Over IP Networks
- Simultaneous IP and Analog Video and Control
- H.264, MPEG-4, and MJPEG Compression
- Supported Protocols: TCP/IP, UDP/IP (Unicast, Multicast IGMP), UPnP, DNS, DHCP, RTSP, NTP, IPv4, SNMP, QoS, HTTP, HTTPS, LDAP (client), SSH, SSL, SMTP, FTP, mDNS (Bonjour®), and 802.1x (EAP)
- Multilevel Password Protection
- 3 Autofocus, High Resolution Integrated Camera/Optics Packages
- Horizontal Zone and Window Blanking
- Sensitivity Down to 0.00015 lux PAL (35X Models)
- On-Screen Compass and Tilt Display
- Up to 2 Simultaneous Video Streams
- Web Viewing, up to 16 Cameras Simultaneously
- Open IP Standards
- Bidirectional Full-Duplex Audio

Spectra® IV IP dome systems incorporate all of the features and functions of Spectra IV (including analog), while allowing you to control and monitor video over an IP network from virtually anywhere in the world. Spectra IV IP is a high-speed dome with a built-in 100Base-TX network interface for live streaming to any network application.

Spectra IV IP supports two simultaneous video streams. The two streams can be compressed in MJPEG, MPEG-4, and H.264 formats across several resolution configurations. The streams can be configured in a variety of frame rates, bit rates, and group of pictures (GOP) structures for additional bandwidth administration. The H.264 compression video files are up to 20 times smaller than MJPEG, making network video storage more affordable.

Spectra IV IP allows you to view and control analog video while viewing, recording, and controlling network IP video. There is no need to abandon your current analog infrastructure if you are making the move to network video as a recording solution. Continue to monitor and control video in the analog domain while recording video in the network domain, and let Spectra IV IP’s professional compression method do the work for you without the need for external encoders.

Spectra IV IP dome system consists of a back box, a dome drive, and a lower dome. These three system components are interchangeable with other Spectra IV IP dome systems, making retrofitting and application adjustments simple.

Spectra IV IP features several back box options. All back boxes feature built-in memory, which can be used to store camera and location-specific dome settings, including labels, presets, patterns, and zones.

All cameras in Spectra IV IP dome drives feature an EXview HAD™ imager for increased sensitivity and LowLight™ technology allowing the cameras to compensate for scenes where minimal light is present. Both the 27X and the 35X cameras feature built-in motion detection and advanced 128X wide dynamic range (WDR) that enables the system to compensate for scenes where dramatic contrasts in lighting are present. The 35X day/night camera’s electronic image stabilization digitally reduces blurring of the camera image due to vibration caused by external sources, such as wind and traffic.

Web Interface

Spectra IV IP uses a standard Web browser for powerful remote setup and administration. Up to 16 cameras can be viewed on the same network.

Network protocols such as Secure Sockets Layer (SSL) configuration for security certificates, Secure Shell (SSH) for remote logon, and Quality of Service (QoS) for priority or guarantee data flow can be managed using a Web browser.

Systemization

Spectra IV IP easily connects to Pelco IP and hybrid systems such as Endura® version 1.5 (or later), MPEG-4; Endura version 2.0 (or later), H.264; Digital Sentry® version 4.2 (or later); DX8100 version 2.0 (or later); and DVR5100 version 1.5.4 (or later). The camera also features open architecture connectivity to third-party software. Pelco offers an application programming interface (API) for interfacing to Pelco’s network cameras.
### Camera/Optics

<table>
<thead>
<tr>
<th>Feature</th>
<th>Day/Night (35X)</th>
<th>Day/Night (27X)</th>
<th>Day/Night (23X)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Signal Format</strong></td>
<td>NTSC (DD4C8W35)</td>
<td>NTSC (DD427)</td>
<td>NTSC (DD423)</td>
</tr>
<tr>
<td></td>
<td>PAL (DD4C8W35-X)</td>
<td>PAL (DD427-X)</td>
<td>PAL (DD423-X)</td>
</tr>
<tr>
<td><strong>Scanning System</strong></td>
<td>Interface/Progressive selectable</td>
<td>Interface/Progressive selectable</td>
<td>2:1 Interface</td>
</tr>
<tr>
<td><strong>Image Sensor</strong></td>
<td>1/4-inch EXview HAD™</td>
<td>1/4-inch EXview HAD</td>
<td>1/4-inch EXview HAD</td>
</tr>
<tr>
<td><strong>Effective Pixels</strong></td>
<td>768 (H) X 494 (V)</td>
<td>768 (H) X 494 (V)</td>
<td>768 (H) X 494 (V)</td>
</tr>
<tr>
<td><strong>NTSC</strong></td>
<td>752 (H) X 582 (V)</td>
<td>752 (H) X 582 (V)</td>
<td>752 (H) X 582 (V)</td>
</tr>
<tr>
<td><strong>PAL</strong></td>
<td>768 (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;540 TV Lines</td>
<td>&gt;540 TV Lines</td>
<td>540 TV Lines</td>
</tr>
<tr>
<td><strong>NTSC</strong></td>
<td>&gt;540 TV Lines</td>
<td>&gt;540 TV Lines</td>
<td>540 TV Lines</td>
</tr>
<tr>
<td><strong>PAL</strong></td>
<td>&gt;540 TV Lines</td>
<td>&gt;540 TV Lines</td>
<td>540 TV Lines</td>
</tr>
<tr>
<td><strong>Lens</strong></td>
<td>1/1.4 (focal length, 3.4 – 119 mm)</td>
<td>1/1.4 (focal length, 3.4 – 91.8 mm)</td>
<td>1/1.6 (focal length, 3.6 – 82.8 mm)</td>
</tr>
<tr>
<td><strong>Zoom</strong></td>
<td>35X optical, 12X digital</td>
<td>27X optical, 12X digital</td>
<td>23X optical, 12X digital</td>
</tr>
<tr>
<td><strong>Zoom Speed (optical range)</strong></td>
<td>3.2/4.6/6.6 seconds</td>
<td>3.2/4.6/6.6 seconds</td>
<td>2.9/4.2/5.8 seconds</td>
</tr>
<tr>
<td><strong>Horizontal Angle of view</strong></td>
<td>55.8° at 3.4 mm wide zoom; 1.7° at 119 mm telephoto zoom</td>
<td>55.8° at 3.4 mm wide zoom; 2.3° at 91.8 mm telephoto zoom</td>
<td>54° at 3.6 mm wide zoom; 2.5° at 82.8 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 at 35 IRE</strong></td>
<td>0.55 lux at 1/60 sec (color)</td>
<td>0.55 lux at 1/60 sec (color)</td>
<td>0.65 lux at 1/60 sec (color)</td>
</tr>
<tr>
<td><strong>NTSC/EIA</strong></td>
<td>0.018 lux at 1/2 sec (color)</td>
<td>0.018 lux at 1/2 sec (color)</td>
<td>0.15 lux at 1/60 sec (B-W)</td>
</tr>
<tr>
<td><strong>PAL/CCIR</strong></td>
<td>0.00018 lux at 1/2 sec (B-W)</td>
<td>0.00018 lux at 1/2 sec (B-W)</td>
<td>—</td>
</tr>
<tr>
<td><strong>Iris Control</strong></td>
<td>0.45 lux at 1/50 sec (color)</td>
<td>0.45 lux at 1/50 sec (color)</td>
<td>—</td>
</tr>
<tr>
<td><strong>Gain Control</strong></td>
<td>0.015 lux at 1/1.5 sec (color)</td>
<td>0.015 lux at 1/1.5 sec (color)</td>
<td>—</td>
</tr>
<tr>
<td><strong>Electronic Image Stabilization</strong></td>
<td>0.000015 lux at 1/1.5 sec (B-W)</td>
<td>0.000015 lux at 1/1.5 sec (B-W)</td>
<td>—</td>
</tr>
<tr>
<td><strong>Video Motion Detection</strong></td>
<td>0.55 lux at 1/50 sec (color)</td>
<td>0.55 lux at 1/50 sec (color)</td>
<td>0.65 lux at 1/50 sec (B-W)</td>
</tr>
<tr>
<td><strong>Sync System</strong></td>
<td>0.12 lux at 1/50 sec (B-W)</td>
<td>0.12 lux at 1/50 sec (B-W)</td>
<td>0.15 lux at 1/50 sec (B-W)</td>
</tr>
<tr>
<td><strong>Shutter Speed</strong></td>
<td>Internal/AC line lock, phase adjustable</td>
<td>Internal/AC line lock, phase adjustable</td>
<td>Internal/AC line lock, phase adjustable</td>
</tr>
<tr>
<td><strong>NTSC</strong></td>
<td>using remote control, V-Sync</td>
<td>using remote control, V-Sync</td>
<td>using remote control, V-Sync</td>
</tr>
<tr>
<td><strong>PAL</strong></td>
<td>Automatic with manual override</td>
<td>Automatic with manual override</td>
<td>Automatic with manual override</td>
</tr>
<tr>
<td><strong>Gain Control</strong></td>
<td>1/2 – 1/30,000</td>
<td>1/2 – 1/30,000</td>
<td>1/2 – 1/30,000</td>
</tr>
<tr>
<td><strong>Electronic Image Stabilization</strong></td>
<td>1/1.5 – 1/30,000</td>
<td>1/1.5 – 1/30,000</td>
<td>1/1.5 – 1/30,000</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;50 dB</td>
</tr>
<tr>
<td><strong>Wide Dynamic Range</strong></td>
<td>128X</td>
<td>128X</td>
<td>—</td>
</tr>
<tr>
<td><strong>Video Motion Detection</strong></td>
<td>Integrated</td>
<td>Integrated</td>
<td>—</td>
</tr>
</tbody>
</table>
**VIDEO**

**Video Encoding**
H.264 base profile, MPEG-4, and MJPEG

**Video Streams**
Up to 2 simultaneous streams; the second stream is variable based on the setup of the primary stream

**Frame Rate**
Up to 30, 25, 24, 15, 12.5, 12, 10, 8, 7.5, 6, 5, 4, 3, 2, 1 (dependent upon coding, resolution, and stream configuration)

**Available Resolutions**

<table>
<thead>
<tr>
<th>Width</th>
<th>Height</th>
<th>Format</th>
<th>MJPEG Maximum IPS</th>
<th>MJPEG Recommended Bit Rate</th>
<th>H.264 Base Profile Maximum IPS</th>
<th>H.264 Base Profile Recommended Bit Rate</th>
<th>MPEG-4 Maximum IPS</th>
<th>MPEG-4 Recommended Bit Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>704</td>
<td>480</td>
<td>NTSC</td>
<td>30 ips</td>
<td>5.4 Mbps</td>
<td>30 ips</td>
<td>1.9 Mbps</td>
<td>30 ips</td>
<td>2.0 Mbps</td>
</tr>
<tr>
<td>704</td>
<td>576</td>
<td>PAL</td>
<td>25 ips</td>
<td>5.4 Mbps</td>
<td>25 ips</td>
<td>1.9 Mbps</td>
<td>25 ips</td>
<td>2.0 Mbps</td>
</tr>
<tr>
<td>352</td>
<td>240</td>
<td>NTSC</td>
<td>30 ips</td>
<td>1.3 Mbps</td>
<td>30 ips</td>
<td>0.5 Mbps</td>
<td>30 ips</td>
<td>0.6 Mbps</td>
</tr>
</tbody>
</table>

**Supported Protocols**
TCP/IP, UDP/IP (Unicast, Multicast IGMP), UPnP, DNS, DHCP, RTP, RTSP, NTP, IPv4, SNMP, QoS, HTTP, HTTPS, LDAP (client), SSH, SSL, SMTP, FTP, mDNS (Bonjour), and 802.1x (EAP)

**Users**
- **Unicast**: Up to 20 simultaneous users depending on resolution settings (2 guaranteed streams)
- **Multicast**: Unlimited users H.264 or MPEG-4

**Security Access**
Password protected

**Software Interface**
Web browser view and setup, up to 16 cameras

**Pelco System Integration**
Endura 1.5 or later (MPEG-4) or Endura 2.0 or later (H.264); Digital Sentry 4.2 IP bundle 3 or later; DX8100 Series 2.0 or later; and DVR5100 version 1.5.4 or later

**Open IP Integration**
Pelco IP camera API

**Minimum System Requirements**
- **Processor**: Intel® Pentium® 4 microprocessor, 1.6 GHz
- **Operating System**: Microsoft® Windows® XP, Windows Vista®, or Mac® OS X 10.4 (or later)
- **Memory**: 512 MB RAM
- **Network Interface Card**: 100 megabits (or greater)
- **Monitor**: Minimum of 1024 x 768 resolution, 16- or 32-bit pixel color resolution
- **Web Browser**
  - Internet Explorer® 7.0 (or later) or Mozilla® Firefox® 3.0 (or later)
- **Media Player**
  - QuickTime® 7.6.5 for Windows XP, Windows Vista, or QuickTime 7.6.4 for Mac OS X 10.4

*Internet Explorer is not supported by Mac OS X 10.4.
†This product is not compatible with QuickTime version 7.6.4 for Windows XP or Windows Vista. If you have this version installed on your PC, you will need to upgrade to QuickTime version 7.6.5.
DOME DRIVE FEATURES

35X and 27X Models

- 256 Presets
- ±0.1° Preset Accuracy
- Electronic Image Stabilization (35X model)
- Image Enhancement (35X model)
- 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
- Window Blanking: Up to 8, Four-Sided, User-Defined Shapes
- 8 Zones (configurable in size) Can Be Labeled with up to 20 Characters Each or Set to Output Blank Video
- 7 Alarm Inputs
- 1 Auxiliary (Form C) Relay Output and 1 Open Collector Auxiliary Output (can be alternately programmed to operate upon alarm)
- Configurable Locations of Labels and On-Screen Displays
- Action on Alarm: Alarms Can Be Individually Programmed for 3 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
- Multiple Park and Power-Up Action
- Patterns: Up to 8, On-Screen, User-Defined Configurable Patterns; 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
- Autosensing 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 through Pelco D Protocol
- Built-in Menu System for Setup of Configurable Functions
- *Auto Flip* Rotates Dome 180° at Bottom of Tilt Travel
- Configurable Zoom Speeds
- Freeze Frame During Presets

23X Models

- 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
- Window Blanking: Up to 4, Four-Sided, User-Defined Shapes
- 8 Zones (configurable in size) Can Be Labeled with up to 20 Characters Each or Set to Output Blank Video
- 1 Alarm Input
- 1 Auxiliary (Form C) Relay Output
- 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
- Autosensing Protocol (Coaxitron, RS-422 Pelco P and Pelco D, Sensormatic, Vicon); Accepts Other Control Protocols with Optional Translator Card
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- Built-in Menu System for Setup of Configurable Functions
- *Auto Flip* Rotates Dome 180° at Bottom of Tilt Travel
- Freeze Frame During Presets
BACK BOX FEATURES

**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
- 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

**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
- Aluminum Construction
- Environmental Model Includes Sun Shield, Fan, and Heater

**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
- Quick Disconnect to Dome Drive
- Aluminum Construction

NOTE: VALUES IN PARENTHESES ARE CENTIMETERS; ALL OTHERS ARE INCHES.
**BACK BOX FEATURES**

**Heavy-Duty In-Ceiling (Indoor)**  
*Available only with 27X and 35X models*  
- Built-in Memory Stores Camera/Dome Settings  
- Single Back Box for Hard Ceiling Applications  
- Requires 5.25-Inch Space Above Ceiling and 3.25 Inches Below  
- Quick Disconnect to Dome Drive  
- Reinforced Mounting System  
- Heavy-Duty Polycarbonate Dome Bubble  
- Aluminum Trim Ring with Barrel-Type Key Locks  
- Optional Protective Cage

**Heavy-Duty Pendant**  
*Available only with 27X and 35X models*  
- Standard and Environmental Models  
- Built-in Memory Stores Camera/Dome Settings  
- Quick Disconnect to Dome Drive  
- Dual Wall Construction  
- Heavy-Duty Polycarbonate Dome Bubble  
- Aluminum Trim Ring with Barrel-Type Key Locks  
- Optional Protective Cage  
- Environmental Model Includes Sun Shield, Fan, and Heater

**Stainless Steel Pendant**  
*Available only with 27X and 35X models*  
- Standard and Environmental Models  
- Built-in Memory Stores Camera/Dome Settings  
- Quick Disconnect to Dome Drive  
- All Stainless Steel Construction  
- Includes Sun Shield, Fan, and Heater

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

- **Construction**
  - **Back Box**
    - In-Ceiling: Aluminum
    - Pendant: Aluminum
    - Heavy-Duty: Aluminum
    - Stainless Steel: 316 stainless steel, gray, polyurethane powder coated finish

- **Dome Drive**
  - Aluminum, thermo plastic

- **Lower Dome**
  - **In-Ceiling**
    - Acrylic
  - **Pendant**
    - 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: 0.75-inch conduit fitting
  - Pendant: Through 1.5-inch NPT pendant mount

- **Weight (approximate)**
  - **In-Ceiling**
    - Stainless Steel: 5.2 lb (2.4 kg), 8 lb (3.6 kg)
  - **Environmental In-Ceiling**
    - Stainless Steel: 6.2 lb (2.8 kg), 10 lb (4.5 kg)
  - **Standard Pendant**
    - Stainless Steel: 6.5 lb (3.0 kg), 11 lb (5.0 kg)
  - **Environmental Pendant**
    - Stainless Steel: 7.6 lb (3.5 kg), 12 lb (5.4 kg)
  - **Heavy-Duty In-Ceiling**
    - Stainless Steel: 7.3 lb (3.3 kg), 12 lb (5.4 kg)
  - **Heavy-Duty Pendant**
    - Stainless Steel: 9.8 lb (4.5 kg), 16 lb (7.3 kg)
  - **Heavy-Duty Environmental Pendant**
    - Stainless Steel: 9.8 lb (4.5 kg), 16 lb (7.3 kg)

- **MECHANICAL**
  - **(Dome Drive Only)**
    - **Pan Movement**
      - 360° continuous pan rotation
    - **Vertical Tilt**
      - Unobstructed: +2° 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

- **AUDIO**
  - **Streaming**
    - Bidirectional: full or half duplex
  - **Input/Output Terminal block**
    - Analog for microphone and speaker: 600-ohm differential, 1 Vp-p maximum signal level
  - **Compression**
    - G.711 PCM 8 bit, 8 kHz mono at 64 kbit/s

- **ELECTRICAL**
  - **Ports**
    - RJ-45 connector for 100Base-TX
    - Auto MDI/MDI-X
  - **Cabling Type**
    - Cat5 or better for 100Base-TX
  - **Input Voltage**
    - 18 to 32 VAC; 24 VAC nominal
    - 22 to 27 VDC; 24 VDC nominal
  - **Input Power**
    - 24 VAC: 23 VA nominal (without heater); 73 VA nominal (with heater)
    - 24 VDC: 0.7 A nominal (without heater); 3 A nominal (with heater)
  - **Fuse**
    - 1.25 A
  - **Auxiliary Outputs**
    - 2
  - **Alarm Inputs**
    - 7

- **CERTIFICATIONS/RATINGS/PATENTS**
  - CE, Class B
  - FCC, Class B
  - UL/cUL Listed
  - C-Tick
  - U.S. Patents 5,931,432; 6,793,415 B2; 6,802,656 B2; 6,821,222 B2; 7,161,615 B2

- **Effective Projected Area (EPA)**
  - 20.5 square inches (without mount);
  - 47 square inches (with IWM Series mount)

*Add 2 lb (0.90 kg) to the total weight if the system includes a lower dome cage.*
RELATED PRODUCTS

OPTIONAL ACCESSORIES

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HD-KEYS</td>
<td>1 set of keys for heavy-duty lower dome</td>
</tr>
<tr>
<td>IPS-RMK</td>
<td>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 pan/tilt/zoom (PTZ) control, and system setup at any installed dome</td>
</tr>
<tr>
<td>IPS-CABLE</td>
<td>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 <a href="http://www.pelco.com">www.pelco.com</a> for a list of compatible devices</td>
</tr>
<tr>
<td>IPS-RDPE-2</td>
<td>Remote data port; 24 VAC, wall/pole mount video/data breakout box; allows ground-level control/programming when used with the IPS-RMK or IPS-CABLE</td>
</tr>
</tbody>
</table>

RECOMMENDED MOUNTS

In-Ceiling Domes

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SDS-P</td>
<td>2’ x 2’ drop ceiling panel, aluminum construction; replaces 2’ x 2’ ceiling tile</td>
</tr>
<tr>
<td>SCA1</td>
<td>Support rails for BB4N-F; for use in ceiling tile applications</td>
</tr>
</tbody>
</table>

Pendant Domes

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BB5-PCA-BK</td>
<td>Pendant conduit adapter, black</td>
</tr>
<tr>
<td>BB5-PCA-GY</td>
<td>Pendant conduit adapter, gray</td>
</tr>
<tr>
<td>IWM Series</td>
<td>Wall mount, with or without integral 24 VAC, 100 VA transformer; black or gray finish; can be adapted for corner, parapet or pole application</td>
</tr>
<tr>
<td>MRCA</td>
<td>Ceiling mount, black</td>
</tr>
<tr>
<td>PP434B</td>
<td>Parapet roof mount</td>
</tr>
<tr>
<td>PP350/PP351</td>
<td>Parapet wall/roof mount</td>
</tr>
<tr>
<td>SWM Series</td>
<td>Compact wall mount, black or gray finish; can be adapted for corner or pole applications</td>
</tr>
<tr>
<td>IDM4012SS</td>
<td>Stainless steel wall mount with feedthrough capabilities</td>
</tr>
</tbody>
</table>

RECOMMENDED POWER SUPPLIES

<table>
<thead>
<tr>
<th>Series</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>MCS</td>
<td>Indoor, 24 VAC power supply</td>
</tr>
<tr>
<td>WCS</td>
<td>Outdoor, 24 VAC power supply</td>
</tr>
</tbody>
</table>

Refer to individual power supply specifications for more information.
## SYSTEM AND COMPONENT MODELS

### SYSTEM MODEL NUMBERS

<table>
<thead>
<tr>
<th>Type</th>
<th>Back Box Color</th>
<th>Lower Dome</th>
<th>Cage</th>
<th>35X Day/Night*</th>
<th>27X Day/Night*</th>
<th>23X Day/Night*</th>
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</thead>
<tbody>
<tr>
<td>In-Ceiling, Indoor</td>
<td>Black</td>
<td>Smoked</td>
<td>SD4E35-F0</td>
<td>SD4E27-F0</td>
<td>SD4E23-F0</td>
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<tr>
<td></td>
<td></td>
<td>Clear</td>
<td>SD4E35-F1</td>
<td>SD4E27-F1</td>
<td>SD4E23-F1</td>
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<tr>
<td></td>
<td></td>
<td>Chrome</td>
<td>SD4E35-F2</td>
<td>SD4E27-F2</td>
<td>SD4E23-F2</td>
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<tr>
<td></td>
<td></td>
<td>Gold</td>
<td>SD4E35-F3</td>
<td>SD4E27-F3</td>
<td>SD4E23-F3</td>
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</tr>
<tr>
<td>In-Ceiling, Environmental†</td>
<td>Black</td>
<td>Smoked</td>
<td>SD4E35-F-E0</td>
<td>SD4E27-F-E0</td>
<td>SD4E23-F-E0</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Clear</td>
<td>SD4E35-F-E1</td>
<td>SD4E27-F-E1</td>
<td>SD4E23-F-E1</td>
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<tr>
<td></td>
<td></td>
<td>Chrome</td>
<td>SD4E35-F-E2</td>
<td>SD4E27-F-E2</td>
<td>SD4E23-F-E2</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Gold</td>
<td>SD4E35-F-E3</td>
<td>SD4E27-F-E3</td>
<td>SD4E23-F-E3</td>
<td></td>
</tr>
<tr>
<td>Pendant, Standard</td>
<td>Black</td>
<td>Smoked</td>
<td>SD4E35-PB-0</td>
<td>SD4E27-PB-0</td>
<td>SD4E23-PB-0</td>
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<td></td>
<td>Clear</td>
<td>SD4E35-PB-1</td>
<td>SD4E27-PB-1</td>
<td>SD4E23-PB-1</td>
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<td>Chrome</td>
<td>SD4E35-PB-2</td>
<td>SD4E27-PB-2</td>
<td>SD4E23-PB-2</td>
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<td>Gold</td>
<td>SD4E35-PB-3</td>
<td>SD4E27-PB-3</td>
<td>SD4E23-PB-3</td>
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</tr>
<tr>
<td>Pendant, Environmental†</td>
<td>Light Gray</td>
<td>Smoked</td>
<td>SD4E35-PG-0</td>
<td>SD4E27-PG-0</td>
<td>SD4E23-PG-0</td>
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</tr>
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<td></td>
<td>Clear</td>
<td>SD4E35-PG-1</td>
<td>SD4E27-PG-1</td>
<td>SD4E23-PG-1</td>
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<tr>
<td></td>
<td></td>
<td>Chrome</td>
<td>SD4E35-PG-2</td>
<td>SD4E27-PG-2</td>
<td>SD4E23-PG-2</td>
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<td></td>
<td>Gold</td>
<td>SD4E35-PG-3</td>
<td>SD4E27-PG-3</td>
<td>SD4E23-PG-3</td>
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</tr>
<tr>
<td>Pendant, Heavy-Duty Indoor</td>
<td>Light Gray</td>
<td>Smoked</td>
<td>SD4E35-PGE0</td>
<td>SD4E27-PGE0</td>
<td>SD4E23-PGE0</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>Clear</td>
<td>SD4E35-PGE1</td>
<td>SD4E27-PGE1</td>
<td>SD4E23-PGE1</td>
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<td>Pendant, Heavy-Duty Environmental†</td>
<td>Stainless Steel</td>
<td>Smoked</td>
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<td>SD4E27-PSGE0</td>
<td>SD4E23-PSGE0</td>
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<td>Clear</td>
<td>SD4E35-PSGE1</td>
<td>SD4E27-PSGE1</td>
<td>SD4E23-PSGE1</td>
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</tr>
</tbody>
</table>

*For PAL and CCIR models add “-X” suffix to part number (for example, BB4E-PG-E-X).
†Environmental dome systems include a heater, fan, and sun shield.
## COMPONENT MODEL NUMBERS

<table>
<thead>
<tr>
<th>Back Box*</th>
<th>Dome Drive*</th>
<th>Lower Dome†</th>
</tr>
</thead>
<tbody>
<tr>
<td>BB4E-F</td>
<td>DD423</td>
<td>LD5F-0</td>
</tr>
<tr>
<td>BB4E-F-E</td>
<td>DD427</td>
<td>LD5F-1</td>
</tr>
<tr>
<td>BB4E-PB</td>
<td>DD4CBW35</td>
<td>LD5F-2</td>
</tr>
<tr>
<td>BB4E-PG</td>
<td></td>
<td>LD5F-3</td>
</tr>
<tr>
<td>BB4E-PG-E</td>
<td></td>
<td>LD53PB-0</td>
</tr>
<tr>
<td>BB4EHD-F</td>
<td>DD53HDF-1</td>
<td>Clear, in-ceiling, heavy-duty</td>
</tr>
<tr>
<td>BB4EHD-PG</td>
<td>DD53HDPB-1</td>
<td>Clear, pendant, heavy-duty, with cage</td>
</tr>
<tr>
<td>BB4EHD-PG-E</td>
<td></td>
<td>Clear, pendant, heavy-duty, with cage</td>
</tr>
<tr>
<td>BB4E-PSG-E</td>
<td>DD53PSB-0</td>
<td>Smoked, pendant, black trim ring, 316 SS</td>
</tr>
<tr>
<td></td>
<td>DD53PSB-1</td>
<td>Clear, pendant, black trim ring, 316 SS</td>
</tr>
</tbody>
</table>

**Note:** For environmental applications you must order an environmental back box.

*For PAL and CCIR models add “-X” suffix to part number (for example, BB4E-PG-E-X).
†Environmental dome systems include a heater, fan, and sun shield.
‡For environmental pendant back boxes, use the pendant lower domes.
§Not recommended for outdoor use due to possible light reflections.