

# Spectra High Speed Dome Positioning Systems

**PELCO**

by Schneider Electric



**SPECTRA**

Global Leaders in Video and Security Systems

## Spectra History

- 11 years in production
- Largest high speed dome global installation base
- Tested and proven in the world's most demanding environments



## Spectra Family

- Spectra Mini
- Spectra IV
- Spectra IV SE
- Spectra IV Horizon
- Spectra IV IP



# Spectra Mini - Product Overview

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## Message

The Pelco Spectra Mini is the smallest, high performance PTZ dome camera on the market that offers the robust features and functionality of a Spectra III in a compact, cost effective package.



## Sales Bullets

- Small Profile
- High Performance
- Low Cost
- Industry Leader

## Specifications

- 10X Optical Zoom
- 8X Digital Zoom
- Proportional Pan and Tilt
- Auto Flip Dome Rotation
- On Screen Programming – Preset 95
- Single Pattern
- 64 Presets
- On Board Active UTP
- 24V Power
- Aesthetically Similar to ICS-090 Series Camclosure.



## Accessories

- Pendant Mount – SPM4-W/SPM4-B
- Pendant Wall Mount – SWM4-W/SWM4-B (PCM150 back plane).
- IPS-RMK Adapter – IPS-MINIADPT



## Message

“Through modular design and cutting edge technology, the Pelco Spectra IV high speed dome family offers the broadest range of optical features and application specific configurations available.”



## Sales Bullets

- Modular Design
- High Performance
- Full Product Range
- Industry Leader



## Spectra IV Modularity:

- Component based dome system:
  - Back box
  - Dome drive
  - Lower dome
  - Communications
  
- Modularity provides:
  - Easy installation
  - Easy maintenance
  - Upgradeability

# Spectra IV - Product Overview

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## Spectra IV Family Options:

### 5 Dome Drive Options:

- 16X and 22X Color Lowlight
- 18X, 23X, and 35X Day/Night, Horizon 35X Day/Night

### 10 Back Box Options:

- Pendant Models - Indoor, Environmental, Indoor Heavy Duty, Environmental Heavy Duty, Stainless Steel, and Pressurized.
- Flush Mount (in-ceiling) Models - Indoor, Heavy Duty, Environmental.
- Surface Mount – Indoor

### 9 Lower Dome Options:

- Clear – Standard, Heavy Duty, Heavy Duty W/Cage, Stainless Steel, Pressurized, and Horizon
- Smoked – Standard, Stainless Steel
- Chrome
- Gold



# Spectra IV - Product Overview

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## Spectra IV Family Options:

### 4 Transmission Options:

- IP
- UTP
- Single-mode Fiber
- Multi-mode Fiber

### 7 Communication Options:

- AD
- Sensormatic
- Bosch, Philips, Burle
- Hernis
- Vicon
- NTCIP
- TASS



## Spectra IV Family Specifications



- Integrated UTP (analog models only)
- 400 Deg./Sec. Preset Speed
- Event Scheduler
- Multiple Park and Power-Up Options
- Enhanced Surge and Lightning Protection
- ASIC
- Improved Thermal Management (No Fan)
- On-Board Diagnostics (Temp., Pan Cycles, Tilt Cycles)
- Improved Dome Drive/Back Box Connection (Olympic Fix)
- 24VDC Capable
- Three Year Warranty

## Spectra IV 35X Specifications



- 540 TVL Resolution
- F1.4 Lens
- .00018 lux @ 35 IRE B-W Low/Light Performance
- 35X Optical Zoom (3.4mm – 119mm)
- 12X Digital Zoom
- Electronic Image Stabilization
- 256 Presets
- 8 Patterns
- 128X Wide Dynamic Range
- Dynamic Window Blanking Algorithms

## Electronic Image Stabilization (EIS)

(Available in 35X model only)



### Functionality:

- User Selectable – Off, 5hz, or 10hz
- Crops image for centering
- Reduces resolution to 520 TVL
- EIS activation disables DSS, motion detection, digital zoom, and WDR

### Applications:

- Wind Vibration
- Traffic Vibration
- Pole Movement
- Will not compensate for high vibration frequencies such as HVAC vibration!

## Wide Dynamic Range (WDR)

(Available in 23X and 35X models only)



### Functionality:

- 128X Ratio
- Compensates for lighting variances within the scene
- Compensates for dramatic influxes of light
- Disabled when EIS is activated
- Reduces frame rate from 30fps to 15fps

### Applications:

- Parking lots
- Lobby windows
- Water reflectance
- Casino gaming floors

# Spectra IV - Product Overview

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## Motion Detection

(Available in 23x and 35X models only)



### Functionality:

- 4 Detection Areas
- Adjustable Sensitivity:
  - HIGH - The sensitivity level is high. Slight changes in light level and contrast are detectable.
  - MEDIUM (default) - Average sensitivity.
  - LOW – Significant movement is detectable.
- Assignable to Aux Commands (Relay 1 or 2)
- Programmable Aux Time – From 1 to 60 seconds
- Disabled when EIS is activated

### Applications:

- Parking lots
- Entrances
- Process Control
- Restricted Access Areas

## Event Scheduler



### Functionality:

- Based on Internal Clock setting
- Programmable by Date and Time
- Programmable Holidays
- Multiple Event Functions:
  - Park
  - Scan
  - Preset
  - Pattern
  - Window blanking
  - Alarm
  - Auxiliary function
- Event Labels
- Unlimited Event Quantities

# Spectra IV IP – This Changes Everything

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Global Leaders in Video and Security Systems

## Message:

Spectra IV IP is the industry's first high-performance IP-based network positioning system designed specifically for video security, delivering advanced, high-speed dome performance, simultaneous IP and Analog functionality, modular design and an open software architecture for seamless integration into any application.



## Sales Bullets:

- Advanced high-speed dome network camera system
- Open software architecture
- Simultaneous IP and Analog functionality
- Modular design



## Spectra IV IP Family Options:

### 5 Dome Drive Options:

- 16X and 22X Color Lowlight
- 18X, 23X, and 35X Day/Night

### 8 Back Box Options:

- Pendant Models - Indoor, Environmental, Indoor Heavy Duty, Environmental Heavy Duty, and Stainless Steel.
- Flush Mount (in-ceiling) Models - Indoor, Heavy Duty, Environmental.

### 9 Lower Dome Options:

- Clear – Standard, Heavy Duty, Heavy Duty W/Cage, and Stainless Steel
- Smoked – Standard, Stainless Steel
- Chrome
- Gold



## Spectra IV IP Family Specifications



- Control and Monitor Network Video Over IP
- Three Simultaneous Scalable Video Streams: Dual MPEG-4 and MJPEG
- Full Frame Rate, 30 IPS Video at 4CIF Resolution
- Bi-Directional Audio (will be enabled in future software release)
- Supported Protocols: TCP/IP; UDP/IP (Unicast, Multicast IGMP); UPnP; DNS; DHCP, RTP, NTP
- Video Access Via Web Browser
- Multilevel Password Protection



## 3 Simultaneous Video Streams:

### 2 MPEG-4 Streams

- Configurable bit rate
- Maximum bit rate – 2 Mbps @ 4CIF 30IPS
- Minimum bit rate – 800 Kbps @ CIF 2IPS
- Implements EnduraView
- Unicast or Multicast

### 1 MJPEG Stream

- Configurable bit rate
- Maximum bit rate – 3 Mbps @ 4CIF 15IPS
- Minimum bit rate – 800 Kbps @ CIF 2IPS



## Video Resolutions:



	<b>NTSC</b>	<b>PAL</b>
<b>4CIF</b>	<b>704 x 480</b>	<b>704 x 576</b>
<b>2CIF</b>	<b>704 x 240</b>	<b>704 x 288</b>
<b>CIF</b>	<b>352 x 240</b>	<b>352 x 288</b>
<b>QCIF</b>	<b>176 x 120</b>	<b>176 x 144</b>



## Web Browser Access:

- Microsoft Internet Explorer 5.5 (or higher)
- Firefox – MJPEG Only
- Compression Formats:
  - MJPEG
    - 4CIF to QCIF Resolution (scalable)
    - 15 IPS to 2 IPS (scalable)
  - MPEG-4 – Internet Explorer Only
    - 4CIF to QCIF Resolution (scalable)
    - 15 IPS to 2 IPS (scalable)
    - Unicast or Multicast selectable



## Analog Functionality:

- Simultaneous Analog Video & Control
  - First come – First serve
- Active 1 Volt PP Output
- Coaxitron Control
- RS-422 Control
  - Pelco P
  - Pelco D

