Spectra® Mini IP Network Dome System
DIGITAL, INDOOR, SURFACE MOUNT/IN-CEILING

Product Features

- Ability to Control and Monitor Video Over IP Network
- 3 Simultaneous Video Streams
  - Dual MPEG-4 (30 ips)
  - Scalable MJPEG
- Supported Protocols: TCP/IP, UDP/IP (Unicast, Multicast IGMP), UPhP, DNS, DHCP, RTP, NTP
- Power over Ethernet (PoE) Compatible
- Single Model for Surface Mount and In-Ceiling Applications
- Autofocus, High Resolution Integrated Color Camera/Optics Package
- 80X Zoom (10X Optical, 8X Digital)
- Zone Blanking
- 64 Presets
- 0.5° Preset Accuracy
- 140°/Second Pan Speed
- 360° Continuous Pan
- Rotating Discreet Liner
- Bidirectional Full-Duplex Audio

Spectra® Mini IP dome systems incorporate all of the features and functions of Spectra Mini, while allowing you to control and monitor video over an IP network from virtually anywhere in the world.

Spectra Mini IP is a miniature dome with a built-in 100Base-TX network interface for live streaming to a standard Web browser. The dome system features open architecture connectivity for third-party software recording solutions allowing integration into virtually any IP-based system.

The Spectra Mini IP is compatible with Integral Digital Sentry® video management systems. The dome system is also Endura Enabled™ to record, manage, configure, and view multiple live streams. When connected to an Endura® network-based video security system, the dome system has access to EnduraStor™ and EnduraView™ for optimized image quality and bandwidth efficiency.

Spectra Mini IP features the same ease of installation and ease of maintenance that you have come to expect from Spectra Mini. The easy-to-install dome system can be mounted to the surface of ceilings or recessed into hard ceilings and suspended tile ceilings. Spectra Mini IP is IEEE 802.3af PoE compatible, which supplies power to the dome system through the network. If PoE is not available, the unit is prewired for 24 VAC.

Variable speed capabilities of Spectra Mini IP range from a fast pan motion of 140 degrees per second to a smooth “creep” speed of 0.4 degrees per second. The system is capable of continuous 360 degrees rotation, and it has an autoflip feature that allows the dome to rotate 180 degrees and reposition itself for uninterrupted viewing of any subject that passes directly beneath the dome’s location.
ADDITIONAL PRODUCT FEATURES

- 64 Presets: 53 User Definable and 11 Predefined
- Multilingual Menus (English, Spanish, Portuguese, Italian, French, and German)
- Alternate Language Files (includes Russian, Polish, Turkish, and Czech) Available as Optional Software Upload
- On-Screen Compass, Tilt, and Zoom Display
- Password Protection
- 140°/sec Pan Preset Speed and 80°/sec Tilt Preset Speed
- Rotating Discreet Liner
- 4 Zones (programmable in size) Can Be Labeled with up to 20 Characters Each or Set to Output Blank Video
- Programmable Locations of Labels and On-Screen Displays
- 1 On-Screen, User-Defined Programmable Pattern. Includes Pan, Tilt, Zoom, and Preset Functions
- 1 Programmable Window Blanking Area
- Proportional Pan and Tilt: Continually Decreases Pan/Tilt Speeds in Proportion to Depth of Zoom
- Variable Scan Speed: Scan Speed Can Be 3, 6, or 12°/sec
- Pan Motion Allows 0.4° to 140°/sec Pan Speed
- Programmable Limit Stops for Auto/Random/Frame Scan Modes
- Built-in Menu System for Setup of Programmable Functions
- Auto Flip Rotates Dome 180° at Bottom of Tilt Travel
- Programmable Zoom Speeds
- 1 Alarm Input
- 1 Auxiliary Relay Output

VIDEO

Digital Compression MJPEG, MPEG-4 (available only with Microsoft® Internet Explorer®)
Video Streams 3, simultaneous
Video Resolutions NTSC
PAL
4CIF 704 x 480 704 x 576
2CIF 704 x 240 704 x 288
CIF 352 x 240 352 x 288
Q CIF 176 x 240 176 x 288
Bit Rate Configurable MPEG-4
30 ips, 2 Mbps for primary stream, 1 Mbps for secondary stream; implements EnduraView
MJPEG
15 ips, 3 Mbps, MJPEG
Web User Interface Pelco Device Utility For viewing HTTP, requires Java Runtime Environment (JRE™)
Internet Explorer For viewing and control, requires ActiveX®
Firefox® For viewing and control
Users 5 simultaneous users MJPEG or MPEG-4 unicast; unlimited number of users using multicast (MPEG-4 only)

Minimum System Requirements

Processor Intel® Pentium® 4 microprocessor, 1.6 GHz
Operating System Microsoft® Windows® 98, Windows 2000, Windows XP (or later), or Mac® OS X 10.4 (or later)
Memory 512 MB RAM
Network Interface Card 100 megabits, minimum
Monitor Minimum of 1024 x 768 resolution, 16- or 32-bit pixel color resolution
Web Browser Internet Explorer® 5.5 (or later) or Mozilla® Firefox® 1.5 (or later)
Firmware Upgrade Pelco Device Utility or Endura Application
Supported Protocols TCP/IP, UDP/IP (unicast, multicast IGMP), UPnP, DNS, DHCP, RTP, NTP

GENERAL

Construction
Top Cap
Dome Drive
Trim Ring and Surf ace Mount Ring
Bubble
Finish
Light Attenuation
Smoked
Clear
Cable Entry
Environment
Operating Temperature
Unit Weight
Shipping Weight

MECHANICAL

Pan Movement
Vertical Tilt
Manual Pan/Tilt Speeds
Pan
0.4° to 80°/sec manual operation,
100°/sec turbo
Tilt
0.7° to 40°/sec manual operation
Preset Speeds
Pan
140°/sec
Tilt
80°/sec

ELECTRICAL

Input Voltage/Amps 18 to 30 VAC, 24 VAC nominal; 0.75 A, 50/60 Hz nominal
Input Power 18 VA nominal
PoE IEEE 802.3af class 3

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

Firmware Upgrade
Pelco Device Utility or Endura Application
Supported Protocols TCP/IP, UDP/IP (unicast, multicast IGMP), UPnP, DNS, DHCP, RTP, NTP

WEB USER INTERFACE

Pelco Device Utility For viewing HTTP, requires Java Runtime Environment (JRE™)
Internet Explorer® For viewing and control, requires ActiveX®
Firefox® For viewing and control

Users 5 simultaneous users MJPEG or MPEG-4 unicast; unlimited number of users using multicast (MPEG-4 only)
TECHNICAL SPECIFICATIONS

CAMERA
Signal Format NTSC/PAL
Scanning System 2:1 interlace
Image Sensor 1/4-inch interline CCD
Effective Pixels
  NTSC 768 (H) x 494 (V)
  PAL 752 (H) x 582 (V)
Minimum Illumination 3.0 lux
White Balance Automatic with manual override
Shutter Speed Automatic (electronic iris)/manual 1/60~/30,000
Gain Control Automatic with manual override

LENS
Lens f/1.8 (f= 4.2~42 mm optical) 10X optical zoom, 8X digital zoom
Zoom Speed (optical range) 1.5/2.5/4.3 seconds
Horizontal Angle of View
  46.4° wide zoom;
  5.0° telephoto zoom
Focus Automatic with manual override
Iris Control Automatic with manual override

CERTIFICATIONS
• CE, Class B
• FCC, Class B
• UL/cUL Listed
• C-Tick

MODELS
SD4N-B0 Indoor dome system, black, smoked bubble, NTSC
SD4N-B1 Indoor dome system, black, clear bubble, NTSC
SD4N-B0-X Indoor dome system, black, smoked bubble, PAL
SD4N-B1-X Indoor dome system, black, clear bubble, PAL
SD4N-W0 Indoor dome system, white, smoked bubble, NTSC
SD4N-W1 Indoor dome system, white, clear bubble, NTSC
SD4N-W0-X Indoor dome system, white, smoked bubble, PAL
SD4N-W1-X Indoor dome system, white, clear bubble, PAL

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

OPTIONAL MOUNTS

<table>
<thead>
<tr>
<th>Mount Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPM4-W</td>
<td>Pendant mount, white</td>
</tr>
<tr>
<td>SPM4-B</td>
<td>Pendant mount, black</td>
</tr>
<tr>
<td>SWM4-W</td>
<td>Pendant-wall mount, white</td>
</tr>
<tr>
<td>SWM4-B</td>
<td>Pendant-wall mount, black</td>
</tr>
</tbody>
</table>

**SPM4-W/SPM4-B**

- Mounting Method: Attach mount to 0.75-inch NPT pipe or 20 mm threaded conduit; attach Spectra Mini IP dome with hardware supplied with mount.
- Construction: ABS plastic
- Finish: SPM4-W White, SPM4-B Black
- Unit Weight: 0.30 lb (0.14 kg)
- Shipping Weight: 2 lb (0.91 kg)

**SWM4-W/SWM4-B**

- Mounting Method: Install adapter plate on wall or junction box using appropriate hardware; attach wall mount to adapter plate; attach Spectra Mini IP dome with hardware supplied with mount.
- Construction: ABS plastic, aluminum
- Finish: SWM4-W White, SWM4-B Black
- Unit Weight: 0.72 lb (0.33 kg)
- Shipping Weight: 2 lb (0.91 kg)

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