Spectra® Mini Dome System SD5 Series
INDOOR, MINIATURE, SURFACE MOUNT/IN-CEILING

Product Features
• Familiar Spectra® Camera Menu Structure
• 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
• Rotating Discreet Liner
• 1 Pattern
• 1 Dynamic Window Blanking Area
• Proportional Pan and Tilt
• Programmable Zoom Speeds
• Multilingual Support
• Integral, Autosensing, Multiprotocol Receiver
• Auto Flip Dome Rotation
• Integrated UTP Circuit
• Quick Connect Cable for Power, Video (Coaxial or UTP), and Data
• Available with Smoked or Clear Dome

The Spectra® Mini incorporates many well-known features from Pelco’s full-size Spectra dome system into a cost effective, small form factor. The easy-to-install dome system can be mounted to the surface of ceilings or recessed into hard ceilings and suspended tile ceilings. A high resolution camera transmits video over coaxial cable or unshielded twisted pair (UTP) wires. When paired with active UTP receivers, Spectra Mini is capable of transmitting high quality video across distances of up to 4,000 ft (1,219 m). Pan/tilt operation can be performed with Pelco’s controllers that transmit Pelco D, Pelco P, or Coaxitron™ protocols. On-screen programming allows easy setup of the miniature dome’s many features.

Variable speed capabilities of the Spectra Mini 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 has an auto flip feature. This feature allows the dome to rotate 180 degrees and reposition itself for uninterrupted viewing of any subject that passes directly beneath the dome’s location.
PRODUCT FEATURES
- 64 Presets: 53 User Definable and 11 Predefined
- ±0.5° Preset Accuracy
- Multilingual Menus (English, Spanish, Portuguese, Italian, French, and German)
- Data Port for Software Update and Setup
- 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 and tilt speeds in proportion to depth of zoom
- Variable Scan Speed: Scan speed can be 3, 6, or 12°/sec
- Pan Motion Allows 0.4-140°/sec Pan Speed
- Programmable Limit Stops for Auto/Random/Frame Scan Modes
- Autosensing Protocol (Coaxitr on, RS-422 Pelco P and Pelco D)
- Digital Position, Zoom Control, and Feedback Through Pelco 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
Top Cap E-coated cast aluminum
Dome Liner Polycarbonate plastic
Trim Ring and Surface Mount Ring ABS plastic
Bubble Acrylic
Finish White or black

Light Attenuation
Smoked f/0.5 light loss
Clear Zero light loss

Cable Entry
RJ45-10 pigtail connector for video (UTP), power, and data (supplied)
BNC connector for video (coaxial)

Environment
Operating Temperature 32°F to 122°F (0° to 50°C)
Storage Temperature –4°F to 140°F (–20° to 60°C)
Operating & Storage Humidity 20% to 80% RH noncondensing

MECHANICAL
Pan Movement 360° continuous pan rotation
Vertical Tilt Unobstructed +2° to –92°
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
For variable speed operation an appropriate controller is required.

ELECTRICAL
Input Voltage 25 to 32 VDC, 29 VDC nominal; 18 to 30 VAC, 24 VAC nominal
Input Power 21 VA /15 W nominal
Fuse 1.6 A

SPECTRA MINI SDS SERIES

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

CAMERA
Signal Format NTSC/PAL
Scanning System Progressive
Image Sensor 1/3-inch CMOS
Effective Pixels 1305 (H) x 1049 (V)
Horizontal Resolution > 700 TVL
Minimum Illumination 1.0 lux
White Balance Automatic with manual override
Shutter Speed Automatic (electronic iris)/manual 1/60 ~1/60,000
Gain Control Automatic with manual override
Video Output Composite 1.0 to 1.2 Vp-p, 75 ohms, adjustable
UTP 1.0 to 1.2 Vp-p, 100 ohms, adjustable
Video Signal-to-Noise Ratio >50 dB

OPTIONAL MOUNTS
SPM5-W Pendant mount, white
SPM5-B Pendant mount, black
SWM5-W Pendant-wall mount, white
SWM5-B Pendant-wall mount, black

LENS
Lens f/1.6 [f= 5.1–51 mm optical] 10X optical zoom, 8X digital zoom
Zoom Speed (optical range) 4.1/2.6/2.1 seconds
Horizontal Angle of View 54° wide zoom; 4.9° telephoto zoom
Focus Automatic with manual override
Iris Control Automatic with manual override

CERTIFICATIONS
• CE, Class A
• FCC, Class A
• ICES-003, Class A
• UL/cUL Listed
• RCM
• ROHS

SPECTRA MINI DOME SHOWN WITH OPTIMAL SPM5-W PENDANT MOUNT

SPM5-W/SPM5-B
Mounting Method Attach mount to 0.75-inch NPT pipe or 20 mm threaded conduit; attach Spectra Mini dome with hardware supplied with mount
Construction ABS plastic
Finish SPM5-W White
SPM5-B Black
Unit Weight 0.30 lb (0.14 kg)
Shipping Weight 2 lb (0.91 kg)

SWM5-W/SWM5-B
Mounting Method Install adapter plate on wall or junction box using appropriate hardware; attach wall mount to adapter plate; attach Spectra Mini dome with hardware supplied with mount
Construction ABS plastic, aluminum
Finish SWM5-W White
SWM5-B Black
Unit Weight 0.72 lb (0.33 kg)
Shipping Weight 2 lb (0.91 kg)

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### MODELS

<table>
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<tr>
<th>Model</th>
<th>Description</th>
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<tbody>
<tr>
<td>SD5-B0</td>
<td>Indoor dome system, black, smoked bubble, NTSC</td>
</tr>
<tr>
<td>SD5-B1</td>
<td>Indoor dome system, black, clear bubble, NTSC</td>
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<tr>
<td>SD5-B0-X</td>
<td>Indoor dome system, black, smoked bubble, PAL</td>
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<tr>
<td>SD5-B1-X</td>
<td>Indoor dome system, black, clear bubble, PAL</td>
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