Spectra® IV SE Horizon Series Dome Systems

CRYSTAL CLEAR, INTEGRATED LOOK-UP DOME SYSTEM

Product Features

- Unparalleled Crystal Clear Video at Any Angle
- Vertical Tilt of up to 18° Above Horizontal
- Autofocus, High Resolution Integrated Camera/Optics Package
- Day/Night, 540 TVL, 128X Wide Dynamic Range (WDR), Motion Detection, and Electronic Image Stabilization
- Autotracking
- Window Blanking
- · Camera Title Overlay, 20 User-Definable Characters
- Horizontal and Zone Blanking
- On-Screen Compass and Tilt Display
- Password Protection
- Freeze Frame During Presets
- · Built-in Surge and Limited Lightning Protection
- Integrated Passive Unshielded Twisted Pair (UTP) Circuit
- Low Lux Noise Reduction

An important, but often overlooked, component of a high-speed dome system is the relationship between the dome bubble and the camera lens. Special consideration was taken when designing the Spectra® IV SE Horizon lower dome bubble to ensure that an optimal optical relationship between the lens and bubble was achieved, providing crystal clear video at long focal lengths and extended vertical angles.

The Spectra IV SE Horizon dome drive's unique **integrated optics package** incorporates many advanced features that allow the system to produce high quality video in the most difficult environments. The camera in the Spectra IV SE Horizon dome drive features vertical tilt of 18° above the horizon, providing optical clarity and the ability to look up. **LowLight™** technology allows the camera to compensate for scenes where minimal light is present. The camera features advanced **128X wide dynamic range** that enables the system to compensate for scenes where dramatic contrasts in lighting are present. **Electronic image stabilization** digitally reduces blurring of the camera image due to vibration caused by external sources such as wind and traffic.

Spectra IV SE Horizon back box options include environmental in-ceiling, standard pendant, and environmental pendant models. Each back box model features built-in **back box memory** to store camera and location-specific dome settings, including labels, presets, patterns, and zones. A **passive UTP circuit** is located on the door assembly for convenient video transmission through twisted pair wire. For added flexibility, Pelco fiber modules can also be attached to the door assembly for transmission over single-mode or multimode fiber.







PENDANT MODEL SD4H35-PG-0

 Ability to Add IP Network Capability by Purchasing Optional TXB-IP Module

Spectra IV SE Horizon dome systems feature many software enhancements that increase performance and make configuration and operation easy. An **internal scheduling clock** allows for the scheduling of presets and patterns. **Window blanking** enables a user to configure up to eight, four-sided, user-defined privacy areas. **Password protection** prevents unauthorized users from changing the system settings. Configurable **on-screen compass and tilt display** provides positioning information when needed. Intuitive multilingual on-screen menus can be displayed in English, Spanish, Portuguese, Italian, French, German, Russian, Polish, Turkish, and

Spectra IV SE Horizon's variable speed capabilities range from a smooth, fast pan motion of 400 degrees per second to a smooth "creep" speed of 0.1 degree per second. The system is capable of continuous 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.

In addition, with the optional Pelco TXB-IP module, you can add IP network capability at any time to a Spectra IV dome system without losing analog viewing and control. By snapping the TXP-IP module into the back box, you can stream network video to a Web browser, Endura®, Digital Sentry®, or third-party software recording solution allowing integration into virtually any IP-based system.

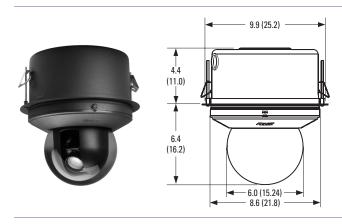
TECHNICAL SPECIFICATIONS

DOME DRIVE FEATURES

- · Vertical Tilt of 18° Above Horizontal
- 256 Presets
- ±0.1° Preset Accuracy
- Electronic Image Stabilization
- Extended Vertical Angles
- Multilanguage 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
- 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 configured to operate upon alarm)
- Configurable Locations of Labels and On-Screen Displays

- Action on Alarm: Alarms Can Be Individually Configured for 3 Priority Levels, to Initiate a Stored Pattern, or to Go to an Associated Preset When Benefited
- Resume After Alarm: Allows the Dome to Return to a Previously Configured 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 1–40°/sec
- Pan Motion Allows 0.1-150°/sec Pan Speed
- Configurable Limit Stops for Auto/Random/Frame Scan Modes
- Auto-sensing Protocol (Coaxitron®, RS-422 Pelco P and Pelco D); Accepts Competitive Control Protocol with Optional Translator Card
- Digital Position, 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

BACK BOX FEATURES

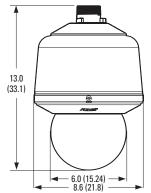


Environmental In-Ceiling

- Built-in Memory Stores Camera/Dome Settings
- Single Back Box for Hard Ceiling Applications
- Requires 4.4-Inch Space Above Ceiling and 6.4 Inches Below
- Includes Heater and Fan
- Minimum Ceiling Thickness 0.5-Inch; Maximum 1.75 Inches
- Quick Disconnect to Dome Drive
- Aluminum Construction
- Integrated Passive UTP



(STANDARD PENDANT MODEL)



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

Standard and Environmental Pendant

- Standard and Environmental Models
- Built-in Memory Stores Camera/Dome Settings
- Quick Disconnect to Dome Drive
- Aluminum Construction
- Environmental Model Includes Sun Shield, Fan, and Heater
- Integrated Passive UTP

TECHNICAL SPECIFICATIONS

CAMERA/OPTICS

NTSC (DD4H35) Signal Format PAL (DD4H35-X)

2:1 Interlace/1:1 progressive scan (user Scanning System

selectable)

Image Sensor 1/4-inch EXview HAD™

Effective Pixels

NTSC 768 (H) X 494 (V) PAL 752 (H) X 582 (V)

Horizontal Resolution

NTSC >540 TV Lines PAL >540 TV Lines

Lens f/1.4 (focal length, 3.4 ~ 119 mm) Zoom 35X optical, 12X digital Zoom Speed (optical range) 3.2/4.6/6.6 seconds

Horizontal

Angle of View 55.8° at 3.4 mm wide zoom; 1.7° at 119 mm

telephoto zoom

Focus Automatic with manual override

Maximum Sensitivity

at 35 IRE

PAL/CCIR

NTSC/EIA 0.55 lux at 1/60 sec (color)

0.018 lux at 1/2 sec (color) 0.00018 lux at 1/2 sec (B-W) 0.45 lux at 1/50 sec (color)

0.015 lux at 1/1.5 sec (color) 0.00015 lux at 1/1.5 sec (B-W)

Sync System Internal/AC line lock, phase adjustable using

remote control, V-Sync

Automatic with manual override White Balance Shutter Speed Automatic (electronic iris)/Manual

NTSC 1/2 ~ 1/30,000 PAL 1/1.5 ~ 1/30,000

Iris Control Automatic Iris Control with manual override

Gain Control Automatic/OFF Video Output 1 Vp-p, 75 ohms Video Signal to Noise >50 dB 128X Wide Dynamic Range Electronic Image Stabilization Integrated Image Enhancement Integrated

MECHANICAL (Dome Drive Only)

Pan Movement 360° continuous pan rotation Vertical Tilt Unobstructed +18° to -92°

Manual Pan/Tilt Speeds

0.1° to 80°/sec manual operation, Pan

150°/sec Turbo

0.1° to 40°/sec manual operation Tilt

Preset Speeds

Pan 400°/sec Tilt 200°/sec

For variable-speed operation an appropriate controller is required. (With nonvariable speed control, Spectra IV SE Horizon pan/tilt

speed is 20°/sec)

ELECTRICAL

Input Voltage 18 to 32 VAC; 24 VAC nominal

22 to 27 VDC; 24 VDC nominal

Input Power

23 VA nominal (without heater); 24 VAC

> 73 VA nominal (with heater) 0.7 A nominal (without heater);

24 VDC 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

Meets the following standards:

NEMA Type 4X, IP66 when installed properly

GENERAL

Construction Back Box

In-Ceilina Aluminum Pendant Aluminum

Dome Drive Aluminum, thermo plastic

Bubble Acrylic

Light Attenuation

Smoked f/0.5 light loss Clear Zero light loss

Cable Entry (back box)

0.75-inch conduit fitting In-Ceiling

Pendant Through 1.5-inch NPT pendant mount Weight (approximate) Unit Shipping

Back Box Environmental

In-Ceiling 2.1 lb (0.95 kg) 3 lb (1.36 kg) Standard Pendant 2.4 lb (1.09 kg) 4 lb (1.81 kg) Environmental Pendant 3.5 lb (1.59 kg) 5 lb (2.27 kg) Dome Drive 3.0 lb (1.36 kg) 4 lb (1.81 kg) Lower Dome 0.8 lb (0.40 kg) 2 lb (0.90 kg)

Environment

Environmental In-Ceiling Outdoor

Pendant, Standard

and Environmental Indoor/outdoor

Operating Temperature

Standard Pendant (Assumes no wind chill factor) Maximum 113°F (45°C) absolute maximum; 95°F (35°C) sustained maximum

25°F (-4°C) sustained minimum

Minimum Environmental In-Ceiling and

Environmental Pendant

(Assumes no wind chill factor) 140°F (60°C) absolute maximum; 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

24 square inches (without mount) Area (EPA)

50.6 square inches (with IWM Series mount)

SYSTEM MODEL NUMBERS

Туре	Back Box Color	Lower Dome	NTSC	PAL	
In-Ceiling, Environmental*	Black	Smoked	SD4H35-F-E0	SD4H35-F-E0-X	
		Clear	SD4H35-F-E1	SD4H35-F-E1-X	
Pendant, Standard	Lt. Gray	Smoked	SD4H35-PG-0	SD4H35-PG-0-X	
		Clear	SD4H35-PG-1	SD4H35-PG-1-X	
Pendant, Environmental*	Lt. Gray	Smoked	SD4H35-PG-E0	SD4H35-PG-E0-X	
		Clear	SD4H35-PG-E1	SD4H35-PG-E1-X	

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

COMPONENT MODEL NUMBERS

Back Box			Dome Drive	Lower Dome	
BB4-F-E	In-ceiling, black, environmental	DD4H35	Day/Night (NTSC) camera (35X)	LD4H-0	Smoked
BB4-PG	Pendant mount, gray, standard			LD4H-1	Clear
BB4-PG-E	Pendant mount, gray, environmental				

OPTIONAL ACCESSORIES

OI HOMME MODEOU	OTHEO
IPS-CABLE	Remote monitor cable and software kit consisting of the Spectra IV remote monitor interface cable and necessary software for use with a PC. Refer to 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/configuration and software upgrades when used with the IPS-CABLE.
TXB Series [†]	Translator boards for AD™ Manchester, Hernis, Bosch® (Philips, Burle), Sensormatic®, Vicon™, TASS, and NTCIP protocols.
TXB-IP Series	Communication module that allows you to control and monitor Spectra IV dome systems over an IP network (in-ceiling and pendant models only).
FS85011A [†]	Fiber transmitter sends one unidirectional composite video channel and 1 bidirectional data channel over 1 multimode or singlemode fiber optical cable.

^{*}If TXB or FS85011A boards are installed, remote upload of system software will not be possible.

RECOMMENDED MOUNTS

In-	Ceil	lina	Dor	nes

SD5-P 2' x 2' drop ceiling panel, aluminum

construction. Replaces 2' x 2' ceiling tile.

SCA1 Support rails for BB4-F; for use in ceiling tile

applications.

Pendant Domes

BB5-PCA-BK Pendant conduit adapter, black

IWM Series Wall mount, with or without integral 24 VAC,

100 VA transformer. Can be adapted for corner, parapet, or pole applications.

corner, paraper, or pole application

MRCA Ceiling mount, black
PP4348 Parapet roof mount
PP350/PP351 Parapet wall/roof mount

SWM Series Compact wall mount. Can be adapted for

corner or pole applications.

RECOMMENDED POWER SUPPLIES

MCS Series Indoor, 24 VAC power supply WCS Series Outdoor, 24 VAC power supply

Refer to individual power supply specifications for more information.