

# Superior SpeedDome

**Day & Night, DSS, Endless**

## DOH-240Si



Superior SpeedDome, DOH-240Si delivers the standard features of programmable dome, but is priced comparably to a PTZ. This provides an alternative for customers who prefer the convenience and programmability of a dome camera, but previously considered domes to be price-prohibitive.

Choose from several innovative mounting selectable, including wall mount pendant as well as pole mount pendant.

The dome accommodates a variety of protocols, including RS-485/RS-422, D-MAX, making it compatible with any D-MAX controller or matrix switcher/ controller system and DVR system.

The dome features a color camera with 22X optical zoom, 10X digital zoom and 480+ TV lines resolution, providing a quality, high-resolution picture. The dome also provides user-programmable presets and Swing and Group-tour.

For using outdoor, the Superior SpeedDome DOH-240SE is suitable to be used at outdoor environments. This integrated dome now features a reinforced integrated outdoor housing as heavy duty vandal resistant housing

- 1/4 inch Sony Super HAD CCD Camera
- 22x optical zoom with 10x digital magnifier (220x total zoom)
- 480+ TV lines horizontal resolution
- Accepts select competitors' protocols (see your sales representatives for the details)
- Open shutter to capture images in very low light (Up to 0.01 lx)
- Continuous auto focus and oneshot focus
- Zoom adjusted programming
- 360° continuous pan travel
- Supports RS-485 & RS-422 protocols
- Support 2400 bps, 4800 bps, 9600 bps of baud rates.
- AC Line-lock
- Programmable presets, group-tours.
- Up to 128 presets
- Stepper motors with micro-step control
- Temperature-controlled interior environment with fans and heater
- Vandal resistant bubble

### \* OPTIONAL ACCESSORIES



DSC-20WP

DSC-20CP

DSC-20ICB

- DSC-20 WP : Wall Mount Pendant
- DSC-20 CP : Pole Mount Pendant
- DSC-20 ICB : In-ceiling Mount Bracket

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## Features

- The camera's 22x optical zoom is combined with 10x digital magnifier, providing a total of 220x zoom.
- 1/4-inch Sony Super HAD CCD zoom camera delivers sharp, detailed images.
- The Superior SpeedDome DOH-240SE Day/Night can clearly distinguish scenes and colors in lighting conditions as low as 0.01 lx and 0.1 lx in black and white mode. (With DSS function)
- In addition to D-MAX, RS-485 and RS-422 codes, the dome can be controlled via other select manufacturer's protocols making it a perfect choice for installers wanting to replace older PTZs.
- Users can adjust the white balance manually or have the camera set it automatically. White balance is normally compensated for by the Automatic Tracing White Balance (ATW). However, in some lighting conditions it may be necessary to manually adjust the red and blue settings for optimal viewing.
- Users can set the Automatic Gain Control (AGC) on/off, and manual set the gain. AGC helps compensate for low lighting conditions.
- Focus Preference provides continuous autofocus with one-shot and manual override.
- The dome supports up to 128 Presets when used with a keyboard controller, DCK-255.
- Smart PTZ Program automatically adjusts pan and tilt speeds in proportion to zoom position, even at maximum magnification.
- Users can set line-lock on or off. Line-Lock is to help prevent vertical rolling in multi-camera applications.
- Vertical sync phase of power when line-lock enabled, making it ideal for single and multi-phase power installations.
- Surge protection is provided for data and power connections.
- Automatic self-protecting shut-down program for power trouble is available for preventing the dome system from abnormal power trouble without damage. Users can check what abnormal electrical condition. After recover, it is just operated by rebooting. It is an ideal function for users.
- Meets CE, FCC



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## Technical Specifications

### Operational

Manual Pan Speed	0.1° - 180° per second (based on zoom wide position)
Manual Tilt Speed	0.1° - 90° per second
Preset Pan/Tilt Speed	180° per second, maximum
Pan Travel	360° continuous
Tilt travel	92°
Pan/Tilt Accuracy	± 0.1°
Total Zoom	220x
Optical Zoom	22x
Digital Zoom	10x
Zoom Start	Selectable 1x to 12x
Zoom Limit	Selectable 13x, 17x, 22x, 44x (Zoom Limit default), 66x, 88x, 110x, 132x, 154x, 176x, 198x, 220x
Programmable Presets	128
Programmable Group-tours	6
Programmable Auto-swing	2
Programmable Auto-tour	1
Spiral surveillance sequence	Available
Trace PTZ (Pattern)	1 (180 sec)
Auto flip	Available
Home position with preset	Available
Auto Synchronization	
Line-Locked	Remote V-phase adjustment
Internal	Built-in AC-DC rectifier
Address Range	
RS-485/RS-422	1 - 255
Menu Language	English, Spanish, Portuguese, Polish, Japanese, Chinese

### Electrical

Input Voltage	24 VAC, 50/60 Hz Class 2
Design Tolerance	16 to 36VAC, 50/60 Hz
Power	10 Watts (Stand By), 12 Watts (MAX) at 24VAC
Power On In-Rush Current	1.0 Amps
Allowable Drop-Out	100 µsec
Surge Protection	
Video	Switching Diode
RS-422/RS-485	TVS rated 9.8V/1 A, 500 watts, 8/20 µsec impulse
Power Line	INR rated at 77 V, 250 A, 1.5 joules

### Cameras

#### NTSC

Effective Pixels	768 (H) X 494 (V) pixels
Scanning	525 lines, 60 fields, 30 frames
Horizontal	15.734 kHz
Vertical	59.94 Hz

#### PAL

Effective Pixels	752 (H) X 582 (V) pixels
Scanning	625 lines, 50 fields, 25 frames
Horizontal	15.625 kHz
Vertical	50 Hz

#### All Cameras

White Balance	Through the Lens (TTL) Auto Tracing White Balance (ATW)
Horizontal Resolution	480 TVLines at center Imager.....1/4-inch Color Super HAD CCD (SONY)
Scanning System	2:1 interlace
Video Output	1.0 Vp-p, 75 ohm composite
S/N Ratio	48 dB (Typical)
Minimum Illumination	Better than 1.0 lux (30 IRE, AGC) on 0.01 lux with 1/8 sec open shutter and day/night mode 0.1 lux in black and white mode with open shutter

### Lens

Design	Aspherical
Aperture	F1.6
3.9 mm	51.26° (H) x 39.03° (V)
85.8 mm	2.39° (H) x 1.8° (V)
Focal Length	3.9 to 85.8 mm
Field of view Formulas	
Horizontal View	= (0.8 x A)/B
Vertical View	= (0.6 x A)/B

### Mechanical

Height	224 mm (8.8 inch)
Diameter	189 mm (7.4 inch)
Weight	
Housing and dome drive	2.0 kg (4.4 lbs)

### Environmental

Operating Temperature	-10 °C to 50 °C (14 °F to 122 °F)
Humidity	0 to 90 %RH (non condensing)
Storage Temperature	-5 °C to 50 °C (23 °F to 122 °F)

### Certifications

CE, Class B  
FCC, Class B

