

Superior Speed Dome

Day & Night

DSC-270Si



The current state-of-the-art, SuperiorSpeedDome Day/Night utilizes a 27x optical zoom combined with a 10x digital zoom, providing a 270x total zoom.

Digital signal processing (DSP) provides enhanced clarity, color, and detail in well lit or low light applications.

The dome's internal multi-protocol receiver enables the dome to be connected directly to a host of systems including those from other vendors.

Privacy zones can be set up to prevent users from viewing sensitive areas. The dome's advanced alarm handling enables alarms to be processed internally by the dome, externally by the controller, or by both the dome and the controller. A "resume time" feature allows users to establish a default reverting time from activated alarms. A "home position" feature allows the users to establish a default preset for the dome when the dome is not in use. The dome has the ability to provide status on input load voltages, protocol, model name and software version. Other features include wide dynamic range, digital slow shutter mode, dome generated programmable on-screen text of camera ID user definable settings for features such as line-lock, maximum zoom, auto flip, AGC and white balance.

For using outdoor, the SuperiorSpeed Dome DSC-270SE is available to extend surveillance to outdoor environments. This integrated dome now features a reinforced integrated outdoor housing as heavy duty vandal resistant housing

- Advanced Sony DSP HAD CCD camera
- 27x optical zoom with 10x digital magnifier (270x total zoom)
- Accepts select competitors' protocols (see your sales representatives for the details)
- Open shutter and IR cut filter to capture images in very low light
- Continuous auto focus and oneshot focus
- Zoom adjusted programming
- Supports RS-485 & RS-422 protocols
- Support 2400 bps, 4800 bps, 9600 bps of baud rates.
- Dome status display
- Up to six privacy zones
- Programmable presets, group-tour, auto-tour, trace ptz (pattern)
- 128 presets
- Alarm inputs and output
- Alarm resume time programmable
- Automatic home position
- Automatic home position time programmable
- Auto flips and Automatic Gain Control, line-lock and white balance (user-selectable on/off)

* 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 27x optical zoom is combined with 10x digital magnifier, providing a total of 270x zoom.
- The Superior Speed Dome DSC-270SI Day/Night's can clearly distinguish scenes and colors in lighting conditions as low as 0.01 lux and 0.003 lux in black and white mode.
- 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.
- Up to six different sized privacy zones can be programmed to prevent users from viewing sensitive areas. The zones automatically change size proportionally.
- The dome indicates how many load voltages have input, protocol, what kind of model and software version.
- 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.
- Users can set automatic dome flip on/off. With this feature turned on, the dome will automatically 180° when the camera tilts to its lower limits and stays in that position for a brief speed-proportional delay. Turned off, users can still manually flip the dome.
- The dome supports to one ptz trace (pattern). Preprogrammed default spiral pan pattern ("apple peel") covers the entire viewing area.
- The dome supports up to 128 Presets when used with a keyboard controller, DCK-255.
- Zoom Adjusted Program automatically adjusts pan and tilt speeds in proportion to zoom position, even at maximum magnification.
- Alarms can be processed internally by the dome, externally by the controller, or by both the dome and the controller. Each of the dome's alarm inputs can automatically call a preset when the alarm is activated.
- Alarm resume time set can be programmed a dome reverts to a previous operating function after setting time. It allows users to program its 1 second to 180 seconds.
- "Home position" is the position that a dome return to after it remains inactive for a specific period of time. This ensures that even when the dome is unattended, it will always be pointing to a key area of the facility. The user can define that preset and how long (from 1 to 180 seconds) before a dome returns to its home position.
- The wide dynamic range feature allows for better viewing of scenes with contrasting light levels.
- 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 video, and power connections.
- Protection program is provided for irregular input voltage. This ideal program makes dome to be shut down in irregular input voltage so that the dome drive is protected serious injury and damage from irregular input voltage.

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Technical Specifications

Operational

Manual Pan Speed.....	0.1° - 250° per second (based on zoom wide position)
Manual Tilt Speed.....	0.1° - 90° per second
Preset Pan/Tilt Speed.....	360° per second, maximum
Pan Travel.....	360° continuous
Tilt travel.....	92°
Pan/Tilt Accuracy.....	± 0.2°
Total Zoom.....	270x
Optical Zoom.....	27x
Digital Zoom.....	10x
Zoom Start.....	Selectable 1x to 12x
Zoom Limit.....	Selectable 13x, 17x, 22x, 27x, 54x (Zoom Limit default), 81x, 108x, 135x, 162x, 189x, 216x, 243x, 270x
Programmable Presets	128
Programmable Group-tours	6
Programmable Auto-tour	1
Programmable PTZ Trace (Pattern)	1
Programmable Privacy Zones	6
Auto Synchronization	
Line-Locked.....	Remote V-phase adjustment
Internal.....	Built-in AC-DC rectifier
Address Range	
RS-485/RS-422.....	1 - 255
Alarm Inputs.....	4
Alarm Output.....	1 relay output at 12 VDC/AC, 500 mA
Menu Language.....	English

Electrical

Input Voltage.....	24 VAC, 50/60 Hz Class 2
Design Tolerance.....	20 to 30VAC, 50/60 Hz
Power.....	20 Watts
Power On In-Rush Current.....	0.8 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 Super HAD CCD (SONY)
Scanning System.....	2:1 interface
Video Output.....	1.0 Vp-p, 75 ohm composite
S/N Ratio.....	50 dB (Typical)
Minimum Illumination.....	Better than 1.0 lux (30 IRE, AGC) on 0.01 lux with 1/16 sec open shutter and day/night mode 0.003 lux in black and white mode with 1/16 sec open shutter

Lens

Design.....	Aspherical
Aperture.....	F1.5
3.25 mm.....	57.0° (H) x 45° (V)
88 mm.....	2.5° (H) x 1.9° (V)
Focal Length.....	3.25 to 88.0 mm
Field of view Formulas	
Horizontal View =	$(0.8 \times A)/B$
Vertical View =	$(0.6 \times A)/B$

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

