

## Surveyor-Mini High-Performance Camera Dome Series



- Auto-focus, high-resolution, day/night camera optics package
- 570 TV Lines (maximum) resolution with 10X optical zoom
- ViconNet MPEG-4 and H.264 IP options; analog coaxial video transmission version available
- Designed for easy installation and servicing
- Indoor or outdoor, in-ceiling, surface mount or pendant configurations
- Built-in surge protection for lightning strikes
- Extended temperature range
- Programmable auto-tours

### Video Transmission

The Surveyor®-Mini camera dome system employs a modular concept with separate interface boards for IP and analog video transmission. The IP cameras are offered in H.264 and MPEG-4 ViconNet® compression models. Both support MJPEG as well. An analog version is also available that offers video transmission over coaxial cable. The analog model is compatible with many competitive PTZ control protocols.

### Camera and Optics

The Surveyor-Mini includes an integral camera and lens. A 3.8-38 mm varifocal lens with an optical 10X zoom provides superb sharpness and excellent sensitivity. The camera is an interline color CCD device with a digital 10X zoom and resolution of 768 x 494 lines (NTSC). Total zoom is 100X. Digital noise reduction is provided to minimize video interference and triggering of false alarms. The camera provides a full 360° pan/tilt rotation. 64 programmable presets are provided.

### Construction and Installation

The Surveyor-Mini is designed for easy installation. The internal CPU, pan/tilt drive and customer interface board are separate modules contained in the die-cast, aluminum enclosure. The customer interface module provides accessible terminal blocks for simple wiring connections. The modular design makes installation of IP models especially easy. All connections are made to the customer interface IP module, including power, alarm and network. An analog video output is also provided for lens focusing on a local monitor. A ribbon connector connects the module to the camera. Vicon's exclusive VNsetup utility quickly finds the camera on the network and enables quick assignment of an IP address.

The lower dome is constructed of impact-resistant, polycarbonate and is secured by tamper-proof screws, providing anti-vandal security. Several mounting accessories are available to fit almost any installation need. The outdoor units are provided with a blower and thermostatically-controlled heater for extended temperature range.

## Surveyor-Mini

Housing	Mount	Transmission	Model
Indoor	In-Ceiling	H.264	SVR-C-O
		MPEG-4	SVR-C-V5
		Analog	SVR-C
	Surface Mount	H.264	SVR-S-O
		MPEG-4	SVR-S-V5
		Analog	SVR-S
	Pendant	H.264	SVR-P-O
		MPEG-4	SVR-P-V5
		Analog	SVR-P
Outdoor	Surface Mount	H.264	SVR-SW-O
		MPEG-4	SVR-SW-V5
		Analog	SVR-SW
	Pendant	H.264	SVR-W-O
		MPEG-4	SVR-W-V5
		Analog	SVR-W






PAL models have an additional "-C" identifier. For example: SVR-SW-V5-C

## Accessories

### Power Supplies

Description	Model Number
24 VAC output, 120 VAC input, single-channel	S24WPS-1
24 VAC output, 230 VAC input, single-channel	S24PS/S24PS-230
28 VAC output, 120 VAC input, single-channel	S28PS-1
24/28 VAC output 120/230 VAC input, single-channel	S28WPS-1/ S28WPS-230
24/28 VAC output 120 VAC input, four-channel	V2448-175PS
24 VAC output 120 VAC input, eight-channel	V248-600PS
24/28 VAC output 120 VAC input, eight-channel	V248-300PS
28 VAC output 120 VAC input, sixteen-channel	V2416-600PS

### Mounts

	Description	Model Number
	Indoor or outdoor wall-mount	SVFT-UWM
	Indoor or outdoor ceiling-mount	SVFT-UCM
	Indoor or outdoor short wall-mount	SVFT-WM
	Outdoor parapet-mount	SVFT-UPM-1
	Outdoor roof-mount	SVFT-URM-1

Data Sheet Number: V203  
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### Network Video Transmission

<b>Compression:</b>	H.264; MPEG-4 Proprietary ViconNet compression.
<b>Video Streams:</b>	10 concurrent sessions maximum.
<b>Video Resolution:</b>	NTSC: 160 x 112 to 720 x 480. PAL: 160 x 134 to 720 x 576.
<b>Frame Rate:</b>	NTSC: 30 fps at 720 x 480. PAL: 25 fps at 720 x 576.
<b>Audio Input Compression:</b>	8 kHz, Mono, PCM.

### Analog Video Transmission

<b>Maximum Transmission Distance:</b>	Coaxial: 1100 ft (350 m), cable dependant. Vicoax™: 1500 ft up to 140° F (60° C); 1000 ft up to 165° F (74° C).
<b>Video Output Impedance:</b>	75 ohms.
<b>Control Protocol Formats:</b>	RS-422 or RS-485 protocols. DIP switch selectable for most major competitive protocols.

### Electrical

<b>Input Voltage:</b>	18-30 VAC.
<b>Current:</b>	IP Indoor: 1.0 A. IP Outdoor: 1.2 A. Analog Indoor: 0.6 A. Analog Outdoor: 1.0 A.
<b>Power Consumption:</b>	IP Indoor: 18 W. IP Outdoor: 32 W. Analog Indoor: 12.1 W. Analog Outdoor: 26 W.
<b>Fuse:</b>	Automatic, 1 resettable fuse.
<b>Certifications:</b>	CE; FCC Class A. International Protection (IP) Ratings: Outdoor: IP66. Indoor Pendant/Surface-Mount: IP52. In-Ceiling: IP51.

### Camera and Optics

<b>Image Device:</b>	1/4-inch interline color CCD.
<b>Drive Type:</b>	Electrical motorized pan and tilt with electronic control.
<b>Zoom:</b>	10X optical; 10X digital; 100X total.
<b>Pan View:</b>	360° continuous.
<b>Tilt View:</b>	-2 to 93°.
<b>Pan Speed:</b>	Variable: 0.5 - 150°/sec.
<b>Tilt Speed:</b>	Variable: 0.5 - 80°/sec.
<b>Optical Zoom Speed:</b>	1.75 sec, tele to wide.
<b>Picture Elements:</b>	NTSC: 768 (H) x 494 (V), 380,000 pixels. PAL: 752 (H) x 582 (V), 438,000 pixels.
<b>Scanning System:</b>	NTSC: 2:1 interlace, 525 lines, 60 fields/sec. PAL: 2:1 interlace, 625 lines, 50 fields/sec.
<b>Sensitivity:</b>	Color: 0.07 fc (0.7 lux). B&W: 0.002 fc (0.02 lux) at 50 IRE, f/1.8.
<b>Horizontal Resolution:</b>	Color: 500 TV lines. B&W: 570 TV lines.
<b>S/N Ratio:</b>	Greater than 50 dB (AGC off, Weight on).
<b>Synchronization:</b>	Internal/Line Lock.
<b>Gain Control:</b>	Selectable: Normal, High, Off.
<b>Backlight Compensation:</b>	Off, Low, Middle, High: selectable.
<b>Iris Control:</b>	Automatic/Manual.
<b>Digital Noise Reduction:</b>	Selectable: Off, Low, Middle, High.
<b>Video Focus:</b>	Automatic/Manual.
<b>White Balance:</b>	Automatic/Manual; Red/Blue adjustable.
<b>Shutter Speed:</b>	Auto: 1/60/120,000 sec/X128 Sens-Up selectable. 3.8 - 38 mm f/1.8 maximum.
<b>Focal Length:</b>	3.8 - 38 mm
<b>Aperture:</b>	f/1.8 maximum.
<b>Angle of View:</b>	Horizontal: 51.2° wide, 5.58° tele. Vertical: 39.3° wide, 4.27° tele.

## Operational

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<b>Preset Capability:</b>	64 programmable.
<b>Preset Solving Speed:</b>	2 seconds nominal.
<b>Preset Accuracy (Pan and Tilt):</b>	0.25° maximum.
<b>Tour Capabilities:</b>	8 tours available. 32 programmable events per tour. Events may be preset positions with speed control, alarm acknowledge, dwell time control, relay control, call autotours, tour repeat or another tour, save/recall camera status.
<b>Autotour Capabilities:</b>	2 autotours available with 256 pan, tilt and zoom functions per autotour. Programming is done in real time with joystick and push buttons.
<b>Sectoring:</b>	8 maximum, programmable for size and titling. Sectors have the capability to be blanked out.
<b>Alarm Capabilities:</b>	1 alarm input, programmable. Functional state enable/disable. Report state (report on/off). Active state (high/low). Mode (manual, momentary or automatic) with programmable dwell time control. Set and reset action (preset solve, relay on/off, tour, autotour). Alarm titling.
<b>Control Display:</b>	On-screen, menu-driven system allowing full configuration of the dome.
<b>Scheduling:</b>	Real-time clock allows scheduling of up to 64 events, including presets, relays, alarms, tours or autotours.
<b>Multi-language Menu:</b>	English, Spanish, French, Italian and German.
<b>Camera Features:</b>	Image freeze during preset solve.

## Screen Titling Capabilities:

Programmable for camera, preset, sector, relay and alarms.  
 Camera: 1 for each.  
 Preset: 64 maximum.  
 Sector: 8 maximum.  
 Alarm: 1 maximum.  
 Individual type date and time enable/disable; 20 characters maximum.  
 Selectable position.  
 Three text sizes for top 2 lines.  
 Fade capability.  
 Compass/azimuth, 8 compass headings (N, NE, E, SE, S, SW, W, NW).  
**Auto Baud:** Auto baud detection in RS-422/ RS-485 mode. 4800, 9600, 19,200 bps baud rates supported.

## Auto Baud:

## Absolute Position Control:

Available in RS-422/RS-485 mode.  
 Pan/tilt: 0.125°.  
 Zoom: 0.125X.

## Environmental

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### Operating Temperature Range:

Indoor units: 32 to 104° F (0 to 40° C).  
 Outdoor units: -40 to 132° F (-40 to 55° C) continuous rotation.

### Operating Humidity Range:

Indoor: 0 to 90% relative, non-condensing.  
 Outdoor: 100% relative, non-condensing.

### Storage Temperature Range:

-40 to 150° F (-40 to 65° C).

### Storage Humidity Range:

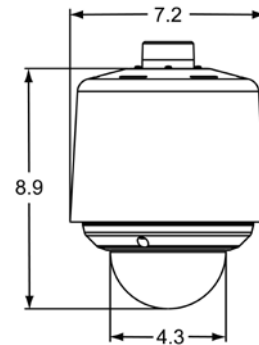
0 to 90% relative, non-condensing.

### Rain/Wind:

Outdoor: heavy rain up to 4 in./hr at winds up to 90 mph, when mounted on standard Vicon wall mount.

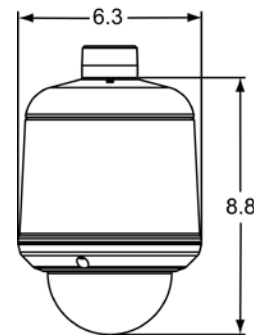
## Outdoor Pendant SVR-W-Series

- Die-cast powder-coated aluminum enclosure
- Molded plastic sunshield
- Vandal-proof clear polycarbonate dome
- Standard 1-1/2 inch male NPT fitting or metric equivalent
- Unit Diameter: 7.2 inches (183 mm)
- Lower Dome Diameter: 4.3 inches (109 mm)
- Height: 8.9 inches (226 mm)
- Weight: 9.5 lb. (4.3 kg)



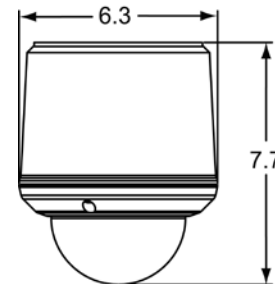
## Indoor Pendant SVR-P-Series

- Die-cast powder-coated aluminum enclosure
- Vandal-proof smoked polycarbonate dome
- Standard 1-1/2 inch male NPT fitting or metric equivalent
- Diameter: 6.3 inches (160 mm)
- Height: 8.8 inches (224 mm)
- Weight: 8.9 lb. (4.0 kg)



## Indoor and Outdoor - Surface Mount SVR-W (Indoor) and SVR-SW (Outdoor) Series

- Die-cast powder-coated aluminum enclosure
- Vandal-proof smoked (indoor) or clear (outdoor) polycarbonate dome
- Diameter: 6.3 inches (160 mm)
- Height: 7.7 inches (196 mm)
- 8.1 lb. (3.7 kg)



## Indoor In-Ceiling SVR-C-Series

- Die-cast powder-coated aluminum enclosure
- Vandal-proof smoked polycarbonate dome
- Diameter: 6.3 inches (160 mm)
- Height: 7.1 inches (180 mm)
- 3.5 lb. (1.63 kg)

