



## Pressurized version of the popular Surveyor line allows for use in the most challenging environments

- Sealed and pressurized housing offers maximum environmental protection
- Impact-resistant polycarbonate dome; pendant or wall mount available
- Provides indoor or outdoor environmental control for SurveyorVFT Camera Dome
- Versions available with high-resolution color 22X or day/night 23X or 35X
- RS-422/485 or coaxial PTZ control; available with TCP/IP, fiber and UTP transmission card options
- High-resolution of 540 TV lines (23X/35X models) and enhanced autofocus
- 23X version features noise reduction (DNR) and enhanced sensitivity; 35X features progressive scan and EIS (image stabilization)

Braving even the most extreme environments is simply routine for the SurveyorVFT-PRS Series of pressurized camera domes. With its pressurized interior of dry nitrogen gas, a regulating relief valve and a thermostatically-controlled heater/fan assembly, the camera, pan/tilt drive, receiver and CPU-based electronics inside the dome are protected in an ideal operational environment (IP67 rated). The result is that electronic and video components inside the dome do not suf-

fer any of the accelerated deterioration that would occur under exposure to extreme elements.

The basic SVFT-PRS model provides video transmission over standard coaxial cable. In addition, interface boards are available to expand transmission options to include TCP/IP (using the ViconNet® platform), fiber-optic transmission or twisted-pair (UTP). A special wall mount and pipe adapter allow for mounting of the units.

Model Number	Product Code	Camera Type/Format	Optical Zoom/Total Zoom
SVFT-PRS22E/ SVFT-PRS22EC	8768/8768-01	Color with ExView Technology NTSC/PAL	22x/264x
SVFT-PRS23/SVFT-PRS23C	8769/8769-01	Color (Day/Night with Wide Dynamic Range) NTSC/PAL	23x/276x
SVFT-PRS35/SVFT-PRS35C	9103/9103-01	Color (Day/Night with Wide Dynamic Range and Image Stabilization) NTSC/PAL	35x/420x
Mounting Options		Description	
SVFT-PR-WMA	8381-01	Wall Mount; for SurveyorVFT Pressurized Domes, used to easily mount dome to a horizontal surface	
SVFT-PR-P	8382	Pipe Adapter; for SurveyorVFT Pressurized Domes, used to easily mount dome to a variety of SurveyorVFT mounts or a vertically oriented 1-1/2 inch NPT pipe	

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# Technical Specifications

## ELECTRICAL

<b>Drive Type:</b>	Electrical motorized pan and tilt with electronic control.
<b>Camera Types:</b>	Units available in color and day/night (NTSC/PAL) formats and a variety of zoom and feature capabilities.
<b>Input Voltage:</b>	18-30 VAC. Will operate within spec on voltages up to 32 VAC. For voltages between 30-32 VAC, use a Class 3 indoor/dry or outdoor/wet power supply.
<b>Current:</b>	1.8 A with SurveyorVFT (coax, UTP, fiber); 2.3 A (ViconNet).
<b>Power Consumption:</b>	44 W with SurveyorVFT (coax, UTP, fiber); 54 W (ViconNet).
<b>Heat Equivalent:</b>	2.5 btu/min (0.6 kg-cal/min) with SurveyorVFT (coax, UTP, fiber); 3.1 btu/min (0.77 kg-cal/min) (ViconNet).
<b>Housing Connector:</b>	23-pin, circular, pressure rated. Mating connector included for access to all SurveyorVFT signals including heater/blower, power, communications and video.

## MECHANICAL

<b>Application:</b>	Indoor or outdoor.
<b>Mounting:</b>	Wall mounting with SVFT-PR-WMA Wall Mount or pendant mounting with SVFT-PR-P Pipe Mount.
<b>Dimensions:</b>	Housing Diameter: 9.5 in. (241 mm). Dome Diameter: 6.0 in. (152 mm). Housing Height: 7.3 in. (185 mm). Total Height: 10.2 in. (259 mm).
<b>Weight:</b>	7.5 lb (3.4 kg). 12.0 lb (5.4 kg) with SurveyorVFT included.
<b>Construction:</b>	Plastic, cast aluminum; trim ring, cast zinc/aluminum.
<b>Color:</b>	White housing and sunshield; black trim ring.
<b>IP Rating:</b>	IP67.

## ENVIRONMENTAL

<b>Ambient Temperature and Humidity Range:</b>	-29° F (-34° C) to 165° F (74° C) in accordance with NEMA 2.1.5.1 STD2; -40 to 132°F (-40 to 55°C) continuous rotation. Up to 100% relative humidity, condensing.
<b>Maintained Temperature and Humidity Range:</b>	14° F (-10° C) to 140° F (60° C) maximum. Up to 90% relative, noncondensing.
<b>Ingress Protection:</b>	EN60529, IP 67 rated.

## HOUSING OPERATION

<b>Pressurization:</b>	Schraeder type valve used to fill and drain housing with dry nitrogen gas. Relief valve automatically relieves pressure at 5- 7 psi (0.34-0.48 atm).
<b>Operating Pressure:</b>	1 - 5 psi (0.07 - 0.34 atm or bars) maximum.

**Pressurization Volume:** 28 ft<sup>3</sup> (0.008 m<sup>3</sup>).

**Low Pressure Indication:** OSD message if pressure dips below 1/2 psig.

## CAMERA MECHANISM OPERATION

<b>Video Pan View:</b>	360°.
<b>Video Tilt View:</b>	-2.5° (-2.5° above horizon) to 92.5° (-2.5° past vertical).
<b>Pan Speed:</b>	Variable, 0.1 to 360°/sec.
<b>Autopan Speed:</b>	Variable, 0.1 to 42°/sec; enable/disable.
<b>Tilt Speed:</b>	Variable, 0.1 to 150°/sec.
<b>Zoom and Focus Speed:</b>	Less than 1.8 sec from end to end.
<b>Sectoring:</b>	16 max, programmable for size and titling; capability to be blanked out.
<b>Preset Capabilities:</b>	79 individual programmable preset positions.

## COAXIAL/UTP VERSIONS

<b>Control Protocol Hardware:</b>	Vicon's NOVA Matrix Switcher/CPU's, V1400X-DVC System Console and V1300X-RVC/-DVC keypad.
<b>Control Protocol Software:</b>	Surveyor Direct Control program run on a standard PC type computer with an RS-422/485 half duplex protocol interface.
<b>Compatible Competitive Protocols:</b>	Pelco, Sensomatic/AD, Ultrak, Philips, Kalatel, Cohu, Panasonic.

## FIBER-OPTIC VERSION

<b>Fiber Optic Receiver Specs:</b>	<b>Video:</b> I/O Level: 1 V p-p. I/O Impedance: 75 ohms. Bandwidth: 8 MHz. Differential Gain: 5%. Differential Phase: 5°. SNR: 60dB. <b>Data:</b> Data Rate: Up to 19.2 Kbps. <b>Optical:</b> Wavelength: 850/1300 nm. Loss Budget (62.5 u): 12 dB. <b>Connector:</b> ST.
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## VICONNET VERSION (LAN/TCP/IP)

<b>Communication Protocol Hardware:</b>	Vicon's Kollector Digital Recorders and ViconNet Workstations.
<b>LAN Interface:</b>	100 Mbps, TCP/IP Unicast.
<b>Connector Types:</b>	<b>Video Out:</b> RJ-45 jack. <b>Network:</b> Ethernet 100Base-T RJ-45 jack. 10/100 Mbps required for network connection. <b>Relay Output:</b> 3-position removable screw terminal block. <b>Audio:</b> 2 1/8-in. phono jacks.