

SurveyorVFT Fixed Camera Dome Series



- Indoor in-ceiling and pendant color cameras in IP and analog versions
- Outdoor pendant color and day/night cameras in IP and analog versions
- Choice of lenses to match range to your application
- 560 TV Lines (maximum) resolution for color camera
- ViconNet MPEG-4 or analog coaxial, fiber-optic or UTP video transmission versions available
- Designed for easy installation and servicing
- Built-in surge protection for lightning strikes

SURVEYORVFT

Video Transmission

The SurveyorVFT® Fixed Camera Dome series employs a modular concept with separate interface boards for IP and analog video transmission. The IP camera provides MPEG-4 ViconNet® compression. The analog version offers video transmission over coaxial cable, fiber-optic cable or Universal Twisted-Pair (UTP). Indoor and outdoor models and NTSC and PAL models are offered.

Camera and Optics

The SVFT includes an integral camera and 3.3-12 mm or 5-50 mm lens. The camera is a 1/3-inch color CCD device with a resolution of 560 TV lines. Built in digital noise reduction improves image quality, minimizes video interference and triggering of false alarms and provides a better compression ratio, which decreases storage requirements.

Construction and Installation

The SVFT is designed for easy snap-in installation. The camera and customer interface board are separate modules contained in the 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. Vicon's exclusive VNsetup utility quickly finds the camera on the network and enables quick assignment of an IP address. The drive simply snaps into the housing.

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.

Model Numbers*

SVFTC or SVFTP-C312/ SVFTC or SVFTP-C312-V	SVFTW-C312 or C312-V/ SVFTW-C550	SVFTW-N312 or N312-V/ SVFTW-N550 or N550-V
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Camera Models and Lenses

Type:	Indoor Color In-Ceiling (C) or Pendant (P)	Outdoor Color Pendant	Day/Night Pendant
Sensitivity:	0.01 fc (0.1 lux) with f/1.2 lens at 30 IRE		Color: 0.01 fc (0.1 lux) with f/1.2 lens at 30 IRE Day/Night: 0.001 fc (0.01 lux) with f/1.2 lens at 30 IRE
Horizontal Resolution:	560 TV lines		560 TV lines: 600 TV lines B&W
Image Device:	1/3-inch CCD		
Picture Elements:	768(H) x 494 (V), 380,000 pixels/ 847(H) x 532 (V), 490,000 pixels		
Video Output:	1.0 V p-p @75 ohms, composite		
S/N Ratio:	50 dB (AGC off)		
Synchronization:	Internal/External		
Automatic Gain Control (AGC):	Selectable: Off, Low, Middle, High		
Backlight Compensation:	On/Off		
Flickerless:	On/Off		
Privacy Mask:	6 zones/size		
Sense Up:	Off/Auto (X2 - X256)		
Digital Noise Reduction:	Selectable: Off, Low, Middle, High		
Iris Control:	Automatic		
White Balance:	Automatic/Manual, Red/Blue Gain Level		
Shutter Speed:	NTSC: 1/60-1/100,000 sec/PAL: 1/50-1/100,000 sec		

Lenses	312 Models	550 Models
Focal Length:	3.3-12 mm	5-50 mm
Aperture:	f/1.2	f/1.4
Field of View:	Horizontal: 83.9°-23.91°/Vertical: 61.9°-17.93°	Horizontal: 51.5°-6.5°/Vertical: 38.5°-5.0°

* See the Ordering Information section for a description of the models.

Electrical

Input Voltage:	24 VAC ±20%
Current:	Indoor: 0.5 A; Outdoor 1.3 A
Power Consumption:	Indoor: 12 W; Outdoor: 38 W
Connectors:	Power: 2-pin screw terminal. TCP/IP LAN: RJ-45. Alarm: 8-pin screw terminal. Audio: 2 1/8-in. phono jacks. Video: BNC (coaxial), screw terminals (UTP) or ST (fiber). Heater: 2-pin connector.
Certifications:	CE, UL and FCC Class A

Data Sheet Number: V152-05

Dated: 10/2010

Vicon Data Sheet Part Number: 8009-7152-05-02

Specifications subject to change without notice.

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Network Video Transmission

Compression:	MPEG-4 Proprietary ViconNet® compression
Video Streams:	10 concurrent sessions maximum
Video Resolution:	NTSC: 160 x 112 to 720 x 488. PAL: 160 x 134 to 864 x 586.
Frame Rate:	NTSC: 30 fps at 720 x 488. PAL: 25 fps at 864 x 586.
Network Interface:	100 Mbps, TCP/IP Unicast
Bandwidth:	1.7 Mbps per video stream nominal

Analog Video Transmission

Maximum Transmission Distance:	Coaxial: 1100 ft (335 m), cable dependant. UTP: 500 ft (passive receiver) to 1000 ft (active receiver) (152 to 305 m). Fiber: Up to 1.6 miles (2.5 km) pending optical cable loss.
Video Output Impedance:	75 ohms

Operational

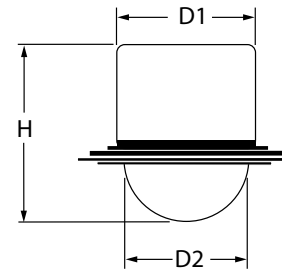
Control Display:	On-screen, menu-driven system allowing full configuration of the camera. Camera can be set up remotely using a DVR or NVR workstation.
Tilt and Horizontal Adjustment:	3-axis adjustment: pan (360°, tilt (95°) and roll. Lens can be rotated on its axis 360°
Operating Temperature Range:	Indoor: 35 to 122° F (2 to 50°C) Outdoor: -22 to 122° F (-30 to 50°C)
Operating Humidity Range:	Indoor: Up to 90% relative, non-condensing Outdoor: Up to 100% relative, non-condensing
Storage Temperature Range:	-40 to 150° F (-40 to 65° C)
Storage Humidity Range:	Up to 90% relative, non-condensing.
Wind Load:	Heavy rain or snow at winds up to 80 mph.
IP Ratings:	Outdoor Pendant: IP66 Indoor Pendant: IP52 In-Ceiling: IP51

Warranty

3 years parts and labor

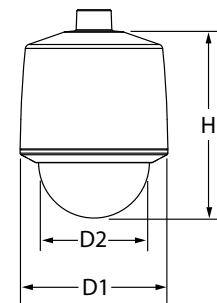
Indoor In-Ceiling

- Black anodized aluminum
- Vandal-proof smoked acrylic dome
- Diameter (D1): 7.1 inches (180 mm)
- Lower Dome Diameter (D2): 5.9 inches (150 mm)
- Height: 9.7 inches (246 mm)
- Weight: 2.5 lb. (1.1 kg)



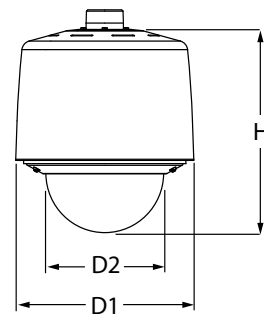
Indoor Pendant

- Molded plastic enclosure
- Vandal-proof smoked acrylic dome
- Standard 1-1/2 inch male NPT fitting or metric equivalent
- Diameter (D1): 8.0 inches (203 mm)
- Lower Dome Diameter (D2): 5.9 inches (150 mm)
- Height: 10.0 inches (254 mm)
- Weight: 4.7 lb. (2.1 kg)



Outdoor/High-Impact Pendant

- Die-cast aluminum enclosure, molded plastic sunshield
- Vandal-proof clear acrylic/polycarbonate dome
- Standard 1-1/2 inch male NPT fitting or metric equivalent
- Unit Diameter (D1): 9.0 inches (228 mm)
- Lower Dome Diameter (D2): 5.9 inches (150 mm)
- Height (H): 10.3 inches (262 mm)
- Weight: 7.7 lb. (3.5 kg)



Indoor Models

Type	Lens	Housing	Transmission	Model**
Color	3.3-12 mm	In-ceiling	IP	SVFTC-C312-V
			Analog*	SVFTC-C312
		Pendant	IP	SVFTP-C312-V
			Analog*	SVFTP-C312

Outdoor Pendant Models

Type	Lens	Transmission	Model**
Color	3.3-12 mm	IP	SVFTW-C312-V
		Analog*	SVFTW-C312
	5-50 mm	Analog*	SVFTW-C550
Day/Night	3.3-12 mm	IP	SVFTW-N312-V
		Analog*	SVFTW-N312
	5-50 mm	IP	SVFTW-N550-V
		Analog*	SVFTW-N550

* For UTP models, add T to the model number. For example, SVFTC-C312T. For fiber-optic models, add F to the model number. For example, SVFTC-C312F.






** PAL models have an additional "-P" identifier. For example: SVFTW-N312-V-P.

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
	Pipe Mount and Wall Mount for SVFT-PRS	SVFT-PR-P/ SVFT-PR-WMA
	Indoor or outdoor wall-mount	SVFT-UWM
	Indoor or outdoor ceiling-mount	SVFT-UCM
	Outdoor parapet-mount	SVFT-UPM-1
	Outdoor roof-mount	SVFT-URM-1

UTP Models

Description	Model Number
Transceiver. Converts UTP video to composite. Transmits or receives video and Vicoax data up to 1000 ft over twisted pair cable.	V-VID-BAL
Receiver. Converts UTP video to composite. Receives video up to 3000 ft from transmitter. Does not support Vicoax systems.	V652R-NVT
16-Channel Hub Receiver. Converts UTP video to composite up to 1000 ft from each transmitter.	V1613-NVT
16-Channel Hub Receiver. Converts UTP video to composite up to 3000 ft from each transmitter. Does not support Vicoax systems.	V1662-NVT

Fiber-Optic Models

Description	Model Number
Receiver for transmission, simplex video and duplex RS-422 data.	VF-100R
Receiver for transmission, simplex video and duplex RS-422 data.	VF-100RR/VF-30RR
Card cage with power supply.	VF-SR-20/2