



SURVEYORVFT Fixed Camera Dome Series

- Indoor in-ceiling/pendant and outdoor pendant versions
- Housing matches SurveyorVFT camera dome
- 24 VAC input
- Preassembled camera/lens module
- High-resolution color and day/night cameras
- Varifocal lenses
- Easy installation

The SurveyorVFT™ Series of Fixed Camera Domes offers a compact domed housing incorporating a fixed camera and lens combination. The camera domes are available for indoor in-ceiling and pendant mounting configurations and outdoor pendant mounting configurations. Each model has a version available that transmits video over twisted-pair wire (UTP), fiber optic or ViconNet® (TCP/IP). An appropriate receiver is required. There is a choice of high-resolution color or day/night cameras with a 3.3-12 mm or 5-50 mm varifocal lens; some models offer autoiris lenses. A smoked lower dome is included on indoor models; a clear dome is used on outdoor versions. Refer to Table 1 for model numbers and descriptions.

The camera position has a unique 3-axis adjustment, allowing for adjustment of pan, tilt and rotation about the lens axis (roll), for any angle of view required. The lens iris and focus can be adjusted, as well as selecting a wide or telephoto angle of view. Cameras accept 24 VAC and also feature line lock capability.

SurveyorVFT Fixed Camera Dome series meets FCC requirements for a Class A device.

Model*	Product Code	Description
SVFT-C3312/ SVFT-C3312-C	8753/8753-01	In-ceiling; 1/3-in. ExView high-resolution color camera with isolated power input and 3.3-12 mm autoiris varifocal lens; 24 VAC; smoked lower dome; coaxial video transmission; NTSC/PAL
SVFT-P3312/ SVFT-P3312-C	8754/8754-01	Indoor Pendant; 1/3-in. ExView high-resolution color camera with isolated power input and 3.3-12 mm autoiris varifocal lens; 24 VAC; smoked lower dome; coaxial video transmission; NTSC/PAL
SVFT-W3312DN/ SVFT-W3312DN-C	8756/8756-01	Outdoor Pendant; 1/4-in. high-resolution day/night color camera with isolated power input and 3.3-12 mm autoiris varifocal lens; 24 VAC; clear lower dome; coaxial video transmission; NTSC/PAL
SVFT-W3312/ SVFT-W3312-C	8755/8755-01	Outdoor Pendant; 1/3-in. ExView high-resolution color camera with isolated power input and 3.3-12 mm autoiris varifocal lens; 24 VAC; clear lower dome; coaxial video transmission; NTSC/PAL
SVFT-W550A/ SVFT-W550A-C	8737/8737-01	Outdoor Pendant; 1/3-in. ExView high-resolution color camera and 5-50 mm autoiris varifocal lens; 24 VAC; clear lower dome; coaxial video transmission; NTSC/PAL
SVFT-W550DN/ SVFT-W550DN-C	8770/8770-01	Outdoor Pendant; 1/3-in. high-resolution day/night camera and 5-50 mm CS autoiris varifocal lens; 24 VAC; clear lower dome; coaxial video transmission; NTSC/PAL
UTP and Fiber Receivers		
V-VID-BAL	6518-20	Transceiver, converts UTP video to composite, transmits or receives video and Vicoax data up to 1000 ft over twisted pair cable
V652R-NVT	7453	Receiver, converts UTP video to composite up to 3000 ft from transmitter (does not support Vicoax systems)
V1613-NVT	7648	16-Channel Hub Receiver, converts UTP video to composite up to 1000 ft from each transmitter
V1662-NVT	6519	16-Channel Hub Receiver, converts UTP video to composite up to 3000 ft from each transmitter (does not support Vicoax systems)
VF-1400R	8421-00	Receiver, for fiber optic video transmission, simplex video and duplex RS-422 data
VF-1400RR	8421-02	Receiver, for fiber optic video transmission transmission, simplex video and duplex RS-422 data
VF-SR-20/2	8423-00	Card cage with power supply
Power Supplies		
S24WPS-1	7028-10	Single-channel, 120 VAC input, 24 VAC output, 2 amps. for indoor and outdoor SurveyorVFT Camera Domes
S24PS/S24PS-230	7027-00/7027-01	Single-channel, 120/230 VAC input, 24 VAC output, 2.5 amps. for indoor SurveyorVFT Camera Domes
V248-3.5PS	7668	Eight-channel, indoor, 120 VAC input, 24 VAC output, 0.4 A/channel (3.5 A total), for indoor SurveyorVFT Camera Domes
V2416-8PS	7669	Sixteen-channel, indoor, 120 VAC input, 24 VAC output, 0.5 A/channel (8 A total), for indoor SurveyorVFT Camera Domes
V2448-175PS	6410-20	Four-channel, indoor, 120 VAC input, 24/28 VAC output (jumper selectable), 7/6.25 amps (total) , for indoor SurveyorVFT Camera Domes
V248-300PS	6422-10	Eight channel, 120 VAC input, 24/28 VAC output (jumper selectable), 12.5/10 amps (total), for indoor SurveyorVFT Camera Domes
V2416-600PS	8437	Sixteen channel, 120 VAC input, 28 VAC output, 26 amps (total), for indoor SurveyorVFT Camera Domes

*Note: Each model is also available in a twisted pair (UTP), fiber optic or ViconNet (version 5) version. Simply add a "-T", "-F" or "-V5" to the model number and a "-40, -30 or -75 (-41, -31, -76 PAL) to the product code (ex., SVFT-C3312-T, 8753-40; SVFT-C3312-TC, 8753-41)

Caution: Be aware that some of these power supplies are for indoor use only. Also note that on multi-channel units, the amperage stated is the total for all channels. To assure sufficient current to individual cameras, connect only the number of cameras that use less than the maximum supply current.

Table 1: Models and Descriptions

Vicon Product Facts		Model No: Refer to Table 1	Product Code: Refer to Table 1	SEC: 3	SPEC: V152	REV: 908
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Technical Information

ELECTRICAL

Input Voltage: 24 VAC ±20%.

Current: Indoor: 0.5 A.
Outdoor: 1.3 A.

Power Consumption: Indoor: 12 W.
Outdoor: 38 W.

Heat Equivalent: Indoor: 0.7 btu/min
(0.17 kg-cal/min).
Outdoor: 2.2 btu/min
(0.5 kg-cal/min).
Note: These figures represent the conversion of 100% of the electrical energy to heat. Actual percentage of heat generated will be less and will vary from product to product. These figures are provided as an aid in determining the extent of cooling required for an installation.

Maximum Power Cable Distance: See Table 2.

Connectors: Power: 2-pin removable screw terminal (P8).
Video: BNC for coax;
screw terminal for UTP.

Fuse: Indoor: 0.5 A, 250 V, 5x20 mm slo blo.
Outdoor: 1.6 A, 250 V, 5x20 mm slo blo, additional.

Radio Frequency Emission Rating: FCC Class A.

CAMERA/LENS

Specifications: Refer to Table 3.

OPERATIONAL

Tilt and Horizontal Adjustment: 3 axis adjustment, pan (360°), tilt (95°) and roll (lens may be rotated on its axis 360°).

MECHANICAL

Application: Indoor and outdoor models.

Mounting: In-ceiling and pendant models.

Dimensions: In-Ceiling
Height: 9.7 in. (246 mm)
Total Diam: 7.1 in. (180 mm).
Dome Diam: 5.9 in. (150 mm).
Indoor Pendant
Height: 10.0 in. (254 mm)
Total Diam: 8.0 in. (203 mm).
Dome Diam: 5.9 in. (150 mm).
Outdoor Pendant
Height: 10.3 in. (261 mm)
Total Diam: 9.0 in. (262 mm).
Dome Diam: 5.9 in. (150 mm).

Weight: Approximately 2.5 lb (1.1 kg).

Construction: Housing: Plastic, aluminum and steel.
Dome: Acrylic.

Finish Painted black enclosure (in-ceiling), off-white housing/sunshield (pendant), smoked gray (indoor) or clear (outdoor) lower dome.

Shipping Dimensions: Height: 11.6 in. (294 mm).
Width: 16.1 in. (409 mm).
Depth: 19.9 in. (505 mm).

Shipping Weight: Approximately 6.3 lb (2.9 kg).

Shipping Volume: 2.2 ft³ (0.06 m³).

ENVIRONMENTAL Operating

Temperature: Indoor: 35 to 122° F (2 to 50° C).
Outdoor: -40 to 122° F (-40 to 50° C).

Operating Humidity: Indoor: Up to 90% relative, noncondensing.
Outdoor: Up to 100% relative, noncondensing.

Storage Temperature: -40 to 150° F (-40 to 65° C).

Storage Humidity: Up to 90% relative, noncondensing.

IP Rating: Outdoor unit: IP66.
Indoor Pendant: IP52.
In-Ceiling: IP51.

Wind Load: Outdoor: Heavy rain or snow driven by winds up to 80 mph.

Table 2: Maximum Power Cable Distance

Wire Size (AWG) (Annealed Copper Wire)	Maximum Distance ft (m)	
	Indoor	Outdoor
20	480 (146)	1850 (56)
18	750 (229)	289 (88)
16	1200 (366)	462 (141)
14	1920 (585)	740 (226)
12	3000 (1143)	1156 (352)

Technical Information

Model	Image Device	Color/ Mono	Resolution (TV lines)	Sensitivity fc (lux)	Synchronization	Electronic Iris (sec)	Signal-to-Noise Ratio
SVFT-C3312/ SVFT-C3312-C	1/3" CCD, 2:1 interlace, NTSC/PAL	Color	550	0.07 (0.8) at 40 IRE, f/1.6	Internal/Line lock DIP switch selectable	1/60 – 1/100,000 (1/50 PAL)	>48 dB (AGC off)
SVFT-P3312/ SVFT-P3312-C	1/3" CCD, 2:1 interlace, NTSC/PAL	Color	550	0.07 (0.8) at 40 IRE, f/1.6	Internal/Line lock DIP switch selectable	1/60 – 1/100,000 (1/50 PAL)	>48 dB (AGC off)
SVFT-W3312DN/ SVFT-W3312DN-C	1/4" CCD, 2:1 interlace, NTSC/PAL	Color	Color: 550 Mono: 580	Day: 0.07 (0.8) Night: 0.0009 (0.01) at 40 IRE, f/1.6	Internal/Line lock DIP switch selectable	1/60–1/100,000 (1/50 PAL)	>48 dB (AGC off)
SVFT-W3312/ SVFT-W3312-C	1/3 " ExView CCD, 2:1 interlace, NTSC/PAL	Color	550	0.07 (0.8) at 40 IRE, f/1.6	Internal/Line lock DIP switch selectable	1/60–1/100,000 (1/50 PAL)	>48 dB (AGC off)
SVFT-W550A/ SVFT-W550A-C	1/3" CCD, 2:1 interlace, NTSC/PAL	Color	550	0.07 (0.8) at 40 IRE, f/1.6	Internal/Line lock DIP switch selectable	1/60 – 1/100,000 (1/50 PAL)	>48 dB (AGC off)
SVFT-W550DN/ SVFT-W550DN-C	1/3" CCD, 2:1 interlace, NTSC/PAL	Color	550	(BW) 0.04 (0.4) scene with f/1.2 lens	Internal/line Lock	1/60 – 1/100,000 (1/50 PAL)	>48 dB (AGC off)

Model	Focal Length (mm)	Field-of-View	
		Horizontal	Vertical
SVFT-C3312/ SVFT-C3312-C	3.3-12 varifocal with autoiris	83.9° - 23.1°	61.9° - 17.93°
SVFT-P3312/ SVFT-P3312-C	3.3-12 varifocal with autoiris	83.9° - 23.1°	61.9° - 17.93°
SVFT-W3312DN/ SVFT-W3312DN-C	3.3-12 varifocal with autoiris	61.9° - 17.93°	44.5° - 13.6°
SVFT-W3312/ SVFT-W3312-C	3.3-12 varifocal with autoiris	83.9° - 23.1°	61.9° - 17.93°
SVFT-W550A/ SVFT-W550A-C	5-50 varifocal with autoiris	51.8° - 5.6°	39.2° - 4.3°
SVFT-W550DN/ SVFT-W550DN-C	5-50 varifocal with autoiris	51.8° - 5.6°	39.2° - 4.3°

Table 2: Camera/Lens Specifications