



# SurveyorVFT-M IMPACT-RESISTANT CAMERA DOME SERIES



The performance and features of the popular SurveyorVFT line packaged in a camera dome design to withstand abuse

- Metal housing and polycarbonate lower dome protect camera from impact and vandalism
- RS-422/485 or coaxial PTZ control; available with TCP/IP, fiber and UTP transmission card options
- Compatible with all Vicon SVFT mounts
- Lowest current draw in its class
- Versions available with high-resolution color 22X or day/night 23X or 35X

The rugged SurveyorVFT™-M Series of impact-resistant maximum security domes provides surveillance coverage in environments where it's needed most. Built to withstand vandalism and tampering, the SurveyorVFT-M Camera Domes include a camera, pan/tilt drive, receiver and CPU-based electronics all enclosed in a metal housing with an impact-resistant polycarbonate lower dome. The attractive, yet covertly rugged enclosure boasts an impressive IP-66 rating.

The basic SVFT-M 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). Compatible with Vicon's line of SurveyorVFT mounting equipment, the SVFT-M Series is ideal for any security installation where even the cameras require that extra level of protection.

### Specification Overview

Model Number	Product Code	Camera Type/Format	Optical Zoom/Total Zoom
SVFT-M22/SVFT-M22C	8747/8747-01	Color NTSC/PAL	22x/264x
SVFT-M22E/SVFT-M22EC	8748/8748-01	Color with ExView Technology NTSC/PAL	22x/264x
SVFT-M23/SVFT-M23C	8749/8749-01	Color (Day/Night with Wide Dynamic Range) NTSC/PAL	23x/276x
SVFT-M35/SVFT-M35C	9104/9104-01	Color (Day/Night with Wide Dynamic Range and Image Stabilization) NTSC/PAL	35x/420x

For ViconNet Version 5 option, add -75 (-76 PAL) to the product code; Fiber Optic option, add -30 (-31) to the product code; for UTP (T) option, add -40 (-41) to the product code.



Corporate Headquarters  
89 Arkay Drive  
Hauppauge, New York 11788  
631-952-CCTV (2288)  
800-645-9116  
Fax: 631-951-CCTV (2288)

Vicon Europe Headquarters  
Brunel Way  
Fareham, PO15 5TX  
United Kingdom  
+44 (0) 1489 566300  
Fax: +44 (0) 1489 566322

Germany  
vin-videotronic infosystems gmbh  
Lahnstrasse 1  
D-24539 Neumuenster  
Phone: +49 (0) 4321 8790  
Fax: +49 (0) 4321 879 97

Far East Office  
Unit 5, 17/F, Metropole Square  
2 On Yiu Street, Shatin  
New Territories  
Hong Kong  
(852) 2145-7118  
Fax: (852) 2145-7117

www.vicon-cctv.com

# 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).

## MECHANICAL

<b>Application:</b>	Outdoor.
<b>Mounting:</b>	Full line of mounting options.
<b>Dimensions:</b>	Housing Diameter: 9.1 in. (231 mm). Dome Diameter: 6.0 in. (152 mm). Housing Height: 10.3 in. (262 mm).
<b>Weight:</b>	9.3 lb (4.3 kg).
<b>Construction:</b>	Die-cast aluminum with molded plastic sunshield.
<b>Color:</b>	Off-white housing and sunshield.
<b>IP Rating:</b>	IP66.

## 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>Rain/Wind:</b>	Heavy rain up to 4 in./hr at winds up to 90 mph, when mounted on standard Vicon wall mount.

## 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 (120°/sec in 22X).
<b>Autopan Speed:</b>	Variable, 0.1 to 42°/sec; enable/disable.
<b>Tilt Speed:</b>	Variable, 0.1 to 150°/sec (90°/sec in 22X).
<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 (N/A in 22X).
<b>Preset Capabilities:</b>	79 individual programmable preset positions.

## COAXIAL/UTP VERSIONS

<b>Control Protocol Hardware:</b>	Vicon's Pilot/NOVA™ Control Systems and a variety of Vicon keypads. NTCIP 1103 compatible hardware.
<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, Sensormatic/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.
------------------------------------	--

## VICONNET VERSION (LAN/TCP/IP)

<b>Communication Protocol Hardware:</b>	Vicon's Kollektor® Elite Digital Recorders and ViconNet Workstations.
<b>Network 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.