

## Modulator SCFM Series

Modulating CCTV is the most convenient, preferred method of viewing residential cameras. Our SCFM series modulators trap a single incoming RF channel without affecting other RF or their digital channels. It then inject a CCTV signal on the same analogue channel and its corresponding digital channel through the Digital Cable Receiver\* and distributed throughout the premises. Easy, fast, precise the SCFM modulator is today's choice in today's digital world. Installation takes only a matter of minutes with true "Plug and Play" simplicity as no external deletion filters are required and it works with digital cable. The unit is bi-directional meaning PPV and VOD is uncompromised. Clients can still view the adjacent analog channels which is perfect for applications utilizing a combination of analog and digital televisions. Our products are made with your clients in mind by using only quality components.



SCFM Series Modulator

*\* This is a function of your digital box in conjunction with your service provider. Not all digital boxes will convert an analogue channel to corresponding digital nor are all cable providers able to provide this service. Ask your provider what the dedicated 'security camera channel' is in your area.*

## Specifications

RF		VIDEO		General	
<b>Modulator Frequency Range</b>	54 - 552 MHz.	<b>Input level for 87.5% Modulation</b>	1 Vp-p ±3 dB, manual gain adjust with front panel control.	<b>Modulator Power Requirement</b>	115 VAC ±10%, 60Hz, 10 Watts.
<b>CATV Throughput Frequency Range</b>	5-1000MHz.	<b>Input Impedance</b>	75 Ohms, return loss of 18 dB minimum	<b>Auxiliary AC Outlet</b>	Nominal 120 VAC, 600 Watts, maximum.
<b>Channels Available</b>	Factory ordered for a single channel: EIA CATV channels 2 to 78 and 95 to 99.	<b>Frequency Response</b>	Flat ±2 dB from 30 Hz to 4.2 MHz.	<b>Total AC Power Input</b>	Nominal 120 VAC 60 Hz, 610 Watts, maximum.
<b>FCC Frequency Offsets</b>	All aeronautical channels offset positive with a tolerance of ±5 kHz.	<b>Video S/N</b>	60 dB, luminance weighted.	<b>Operating Temperature Range</b>	0° C to +50° C, ambient.
<b>Output Level</b>	+5 dBmV	<b>L/C Delay</b>	Within 50 nSec of 0 nSec L/C delay (complies with FCC rules, 76.605).	<b>Size</b>	19" W x 1.75" H x 4.0" D.
<b>RF High Output Level (Adjustable)</b>	+55 dBmV +43 to +55 dBmV	<b>Differential Gain</b>	Less than ±5% (10 to 90% APL).	<b>Weight</b>	3.6 lbs.
<b>Output Impedance</b>	75 OHMS, return loss of 14 dB, nominal	<b>Differential Phase</b>	Less than ±5 degrees (10 to 90% APL).	<b>Connectors</b>	Video input, Audio input, RF output, and Monitor output are all type F.
<b>A/V Ratio</b>	Audio Carrier -20 to -12 dB referenced to video carrier, adjustable.	<b>Audio</b>			
<b>Frequency Stability, Visual</b>	Within ±10 kHz of assigned channel frequency; ±5 kHz on FCC offset channels.	<b>Input Level for 25 kHz Peak Deviation</b>	175 mV rms minimum. Manual gain adjustment with front panel control.		
<b>Aural Inter-carrier Frequency</b>	4.5 MHz, ±5 kHz.	<b>Input Impedance</b>	10K Ohms, unbalanced.		
<b>Spurious Outputs</b>	-60 dBc minimum, measured at -15 dB A/V ratio and with modulator output level of +55 dBmV.	<b>Pre-emphasis</b>	75 µ Sec. (flat by moving internal jumper)		
<b>In-Channel C/N</b>	Better than 60 dB.	<b>Frequency Response</b>	40 Hz to 15 kHz, ±1.5 dB, referenced to 75 µ Sec pre-emphasis curve.		
<b>Broadband Noise</b>	-95 dBc @ ±30 MHz or greater spacings. (Specified levels are referenced to the video carrier and measured in a 4 MHz bandwidth).	<b>4.5 MHz Inter-carrier Stability</b>	Within ±5 kHz, 0° C to +50° C.		
		<b>Total Harmonic Distortion</b>	1.5% maximum.		
		<b>Hum and Noise</b>	-60 dB minimum, referenced to 25 kHz peak deviation.		