



Don't open your *door* to the unknown

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

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