Digital RF Modulators

#7702B

Digital quality, versatility, and power at an affordable price. Channel Vision's CVT 3ub/uhf model accepts three video inputs for modulation on the channels of your choice. PLL crystal controlled oscillator circuitry means set-up is quick and easy. Simply select the TV frequency band via dip switches for UHF 14-78, Ultraband 59-135 or split band 14-39 and 91-135. Includes external inpedance matching switches for each input for true stereo audio. A full 30+ dB output provides a powerful signal for long cable runs. Just select the TV band, then use the push buttons to choose an unoccupied channel on your TV set.

Features:

- Full 30+dBmV Output
- Accepts Up to 3 Inputs
- Video Input Level Adjustments
- PLL Digital Circuitry
- Split Band UHF (14-78) Cable (59-135) (Excluding 95-99)
- Impedance Matching Switches (75 or 1K ohm)

Specifications:

RF Modulator	PLL Synthesized Oscillator
Video	NTSC
Audio	L&R Monaural/Stereo loop opt.
RF Carriers	
Frequency Stability	+1KHz
Frequency Ranges	UHF 471.25-855.25MHz
	Ultraband 433.25-859.25MHz
Channels	UHF 14-78, Ultraband 59-135(Excl 95-99)
Channel Width	6.0MHz
Audio Offset	4.5MHz
Sidebands	Double
RF Output	
Maximum	35dBmV
Gain Range	0-20dBmV Adjustable Attenuator
Video Output	1VPeak to Peak
Audio Output	1V RMS
Video Performance	
Differential Gain	Less than 2% (0.2dB)
Differential Phase	Less than 3 degree
Signal/Noise Ratio	Greater than 55dB
Operating Temps	0^{o}C to 50^{o}C

Spurious Output Rejection	
Outside Carrier	+12MHz Greater than 70dBC
Inside Carrier	+12MHz Greater than 55dBC
Isolation	Greater than 70dB
Inputs	
Video	0.4V-2.7V Peak to Peak adj.
Audio	1V RMS
Connectors	
Video Inputs	RCA Female
Audio Inputs	RCA Female(stereo loop thru)
RF Output	F type female
Signal Combiner	Supplied with unit
Insertation Loss	3.7dB
Bandwidth	5-1000MHz
Transformer Input	
Input Voltage	115 VAC, 50/60Hz
Power	8 Watts
Output Voltage	26.0 VAC C/T @ 400mA
Exterior	ABS resin fiber - black
Display	3 digit channel display
Channel Selector	Up/Down selector buttons