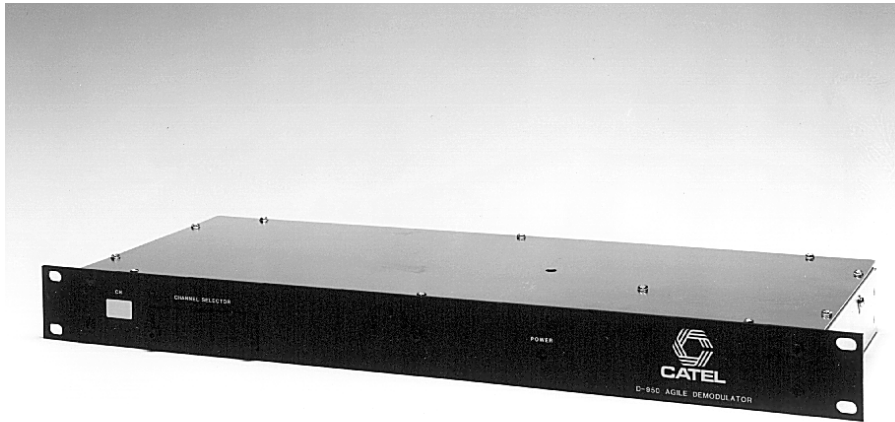




**Broadband - AM**

**Agile AM Television Demodulator**



The Meret D-950 Agile AM Television Demodulator is a general purpose unit used to convert standard analog television signals to baseband video and audio. It has many applications, including demodulation of off-air TV signals for cable or broadband application and as part of broadband AM coaxial or fiber optic networks. Optional applications include demodulation of sub-band CATV signals used in bi-directional broadband coax systems.

Front panel switches select the channel frequency. The D-950 demodulates all VHF, UHF broadcast channels, most cable channels and optional sub-band cable channels. The D-950/17 extends the RF input to include sub-band CATV channels below 50 Mhz (T7-T13). The demodulator can be set to standard, HRC or IRC cable frequencies. The tuning is non-volatile to assure the channel is not lost during a power outage. The D-950 incorporates a PLL (phase locked loop) synthesized local oscillator to assure precise tuning.

The D-950 has a separate 4.5 MHz audio subcarrier output for systems which require a modulated audio signal in place of a baseband signal and also includes a multiplex output to drive a BTSC stereo decoder to obtain left and right audio signals. High quality quadrature audio detection assures that audio signals have very low distortion.

The D-950 utilizes SAW (Surface Acoustic Wave) filtering, providing high isolation from adjacent channels in a CATV or broadband system. Keyed AGC circuitry compensates for any signal fluctuations. Differential gain and phase are minimized through the use of synchronous video detection, reducing color smear and video ringing.

The D-950 is self contained, including the power supply, and occupies only 1¾ inches of rack space. Maximum power consumption of 16 watts assures economical operation.

**Model D-950 Series**

**APPLICATIONS**

- CCTV broadband networks
- CATV headends
- SMATV distribution
- Distance learning
- Surveillance

**FEATURES**

- Frequency agile tuning
- Standard, HRC or IRC
- Nyquist SAW filter
- Synchronous video detect
- Baseband & 4.5 MHz audio
- Sub-band option

**BENEFITS**

- Simplified tuning
- No co-channel interference
- Quality baseband video
- Choice of audio output

**Specifications**

**RF Input**

Bandwidth	5.75 - 53.75 MHz, option 17 54 - 806 MHz, standard
Input Impedance	75 ohms, unbalanced
Connector	Type F
Input Level	+6 to +20 dBmV
Noise Figure (Typical)	VHF - 8 to 11 dB UHF - 10 dB

**Video Output**

Level	1.0 V p-p, 75 ohms terminated, typical
Connector	Type F
Bandwidth	4.0 MHz, $\pm 2$ dB, typical
Differential Phase	2° typical, 5° maximum
Differential Gain	5% typical, 8% maximum

**Audio Output**

Baseband Audio

Level	500 mV RMS, typical
Impedance	600 ohms, unbalanced
Connector	RCA Phono Jack

Multiplex (BTSC)

Level	500 mV RMS, typical
Impedance	600 ohms, unbalanced
Connector	RCA Phono Jack

4.5 MHz Subcarrier

Level	+35 dBmV, typical
Impedance	75 ohms, unbalanced
Connector	Type F

Harmonic Distortion 1% maximum

Specifications are subject to change without notice

**Electrical/Mechanical**

Power	115 VAC, 60 Hz, 16W maximum (220 VAC not available)
Temperature	0 to +50° C, operating
Humidity	95% non-condensing
Size	
D-950	19"W x 1¾"H x 7"D 483mm x 44.45mm x 178mm
w/option 17	19"W x 1¾"H x 14½"D 483mm x 44.45mm x 368mm
Weight	4.6 lb. (2.1 kg) (D-950) 5.6 lb. (2.6 kg) (D-950/17)