806DM Specifications, and Description

SPECIFICATIONS

RF

Input Frequency:	54 - 806 MHz, Off-Air: Channels 2 - 69. CATV: Channels 2 - 125.
Input Level:	-10 to +35 dBmV.
Noise Figure:	10 dB, maximum.
Image Rejection:	50 dB, minimum.
Input Impedance:	75 Ohms.

VIDEO

Output Level:	1.0 Vp-p nominal, NTSC standard negative sync, adjustable with front panel control.

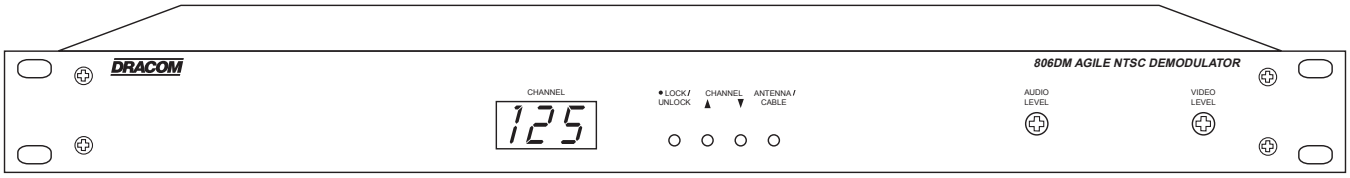
AUDIO

Output Level:	350 mV rms nominal, adjustable.
Output Impedance:	600 Ohms, nominal.

GENERAL

AC Power Input:	115 VAC ±10%, 60 Hz, 5 Watts.
Operating Temperature:	0^0 C to $+50^0$ C, ambient.
Dimensions:	19" W x 1.75" H x 3.125" D.
Weight:	4.5 lbs (2.2 Kg).
Connectors:	RF Input and Video Output are type F. Unbalanced Audio Output is Type "F". Use adapter for RCA phono.

DESCRIPTION



The DRACOM 806DM is a professional quality agile NTSC television demodulator that provides an audio and video output from any VHF, UHF, or CATV channel (54 - 806 MHz). The standard 1-rack-unit package design of the 806DM permits convenient pairing with a Drake rack mount Video Modulator to perform off-air or CATV channel processing.

The desired off-air VHF or UHF television channel from 2 through 69 or CATV channel from 2 through 125 is selected by a front panel recessed push button switches. The 806DM provides a standard negative sync video output at a nominal level of 1 Vp-p which is adjustable with a front panel control. Also provided is an audio output signal, nominal 350 mV, that is level adjustable with a front panel control.

As previously described, channel selection switches, video output level control, and audio output level control are located on the front panel. The RF Input is through an "F" type connector located on the rear panel. The rear panel Video Output is also an "F" type connector. Unbalanced Audio Output is provided through a rear panel connector. The unit is powered through the attached AC line cord by a nominal 115 VAC, 60 Hz source of power. A 115 VAC convenience outlet is also provided.

806DM Front and Rear Panel Controls and Connections

Front Panel Controls and Indicators

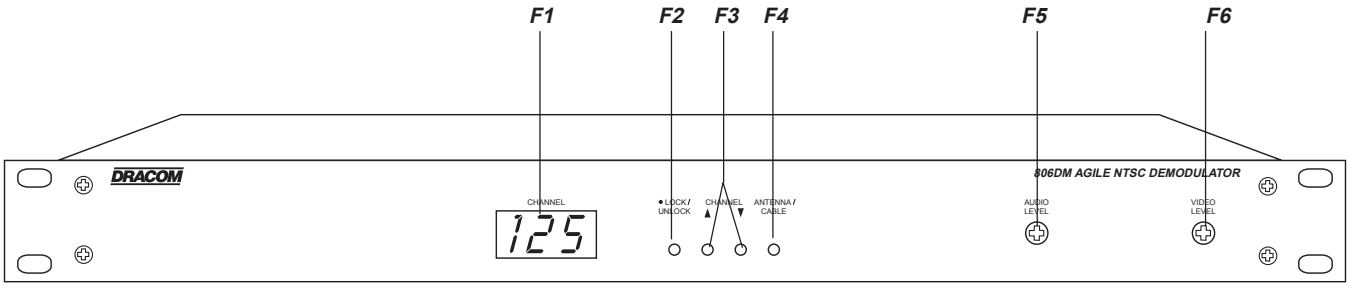


Figure 1

***F1* - CHANNEL Number Display**
Displays off air broadcast channels (ANTENNA mode) with an "A" followed by a channel number.
In cable mode, a three digit channel number is displayed. Also displays CATV channels with a 3 digit numeric display of the EIA channel number.

***F2* - LOCK / UNLOCK Switch**
Press to lock or unlock the channel selection and ANTENNA/CABLE functions. The unit is locked when a decimal point is displayed between the 2nd and 3rd digits in the display.

***F3* - CHANNEL ? / ? Select Switch**
These buttons are used to increment or decrement the selected channel. The channel can only be changed when the unit is unlocked (decimal point is not illuminated between 2nd and 3rd digits). See *F2*.

***F4* - ANTENNA / CABLE Switch**
Press to toggle between ANTENNA and CABLE channel tuning. When the ANTENNA mode is selected, an "A" will be displayed in the far left position of the channel display. See *F1*. The ANTENNA/CABLE selection can be made only if the unit is unlocked. See *F2*.

***F5* - AUDIO Output Level Control**
Use this control to adjust the demodulated audio output level presented at *R2*.

***F6* - VIDEO Output Level Control**
Use this control to adjust the demodulated video output level presented at *R1*.

Rear Panel Connections

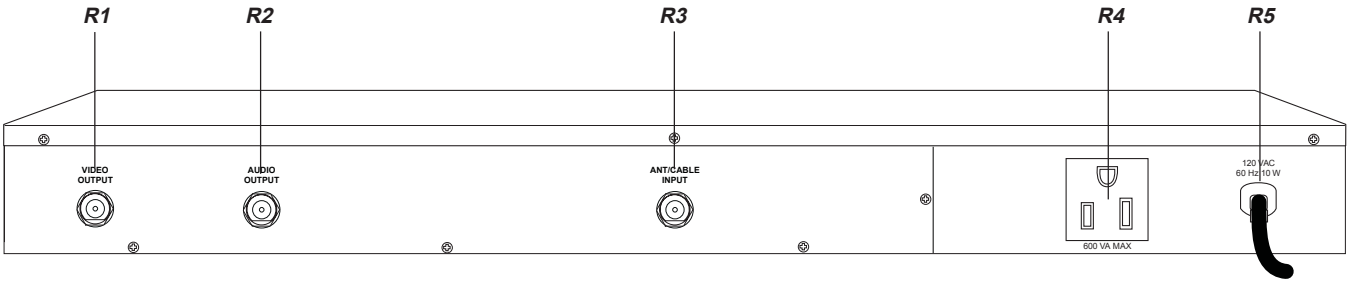


Figure 2

***R1* - VIDEO OUTPUT Connector**
This is the 75 Ohm baseband video output at a nominal 1.0 Vp-p level which is adjustable with the front panel VIDEO LEVEL control

***R2* - AUDIO OUTPUT Connector**
This is the demodulated audio output at a nominal 350 mV rms. This level is adjustable with the front panel AUDIO LEVEL control.

***R3* - RF Input Connector**
This is the 75 Ohm input to the demodulator circuits from an off-air television receiving antenna or from a CATV cable input.

***R4* - AC Receptacle**
Provides a 115 VAC convenience outlet for powering of other modulators, etc.

***R5* - LINE CORD**
This is the AC power line. Connect to a nominal 115 VAC ±10%, 60 Hz source.