GENERAL OPERATION

1. Connect the standard audio and video cables from other equipment such as DSR to the audio input **2** and video input **1** port on the rear panel respectively. **Please do not forget to connecting IF IN and IF OUT with a cable.**

2. When using one modulator only, insert the power plug of the modulator to a power supply socket directly. When using more than one modulator, please insert the first modulator's power plug into the next modulator's power socket, and so on. Remember to insert the last modulator's power plug into a power supply socket.

3. Connect the RF Output **5** on the rear panel to the Channel Mixer of the CATV head-end equipment.
4. Adjust the frequency deviation and video modulation depth to obtain best sound and picture.
5. The A/V has been preset (-17dB) before sold. Do not attempt to adjust the "A/V" in case of unnecessary.

NOTICE

1. Avoid storing in a damp place.
2. Be sure to operate carefully since the modulator has no power on/off switch.
3. Any problem, please resort to the supplier for help.

ACESSORIES

1. Audio and Video Connecting Cable (one piece)
2. IF Connecting Cable (One Piece)

SAW FILTER
AGILE MODULATOR *RF-AGL860*

USER' MANUAL

DESCRIPTION

The -RF-AGL860 is a professional quality agile modulator, which can be used as an alternate IF input and is specifically designed for use of Head-end systems of CATV.

This product provides audio and video modulated RF carrier on any channel in the 47 to 870MHz frequency range. Many standard audio/video sources can be used, such as satellite receivers and video tape recorders. This modulator has a wide range of standard and optional features that make it very suitable for advanced MATV, SMATV or CATV systems.

FEATURES

Advanced Technique and newest circuit design;
Output Frequency Adjustable between 47MHz and 870MHz, sasy to setup
Three digits LED for channel display
IF Modulate Assure Superiority Capability
PLL Technique is applied to Audio IF, Video IF and Local Oscillator to ensure high Frequency Stability
Clamp Circuit with High Anti-hum Performance.
19″ EIA Rack Mountable

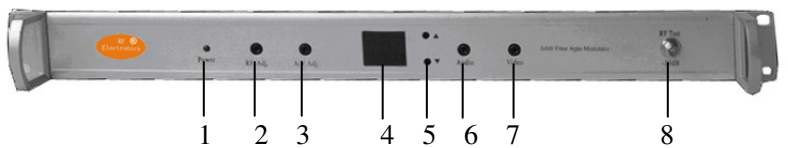
SPECIFICATIONS

Items	Unit	Specifications
Output Frequency	MHz	47-870MHz
Frequency accuracy		±5KHz
Output Level	dBmV	55dBmV
Output Impedance	Ω	75
Output reflection		12dB min, any channel
Audio to Video Carrier Ratio	dB	-10 ~-20
Video Input Level		0.6-1.5 Vp-p
Video Output Impedance	Ω	75
Video Output reflection	dB	30dB min
K coefficient		4%(2T pulse)
Signal to Noise Ratio	dB	60dB
C/L Delay		40nsec
Band Flatness	dB	±1dB
Differential Gain		±4%(87.5% Modulation)
Differential Phase		± 4°(87.5% Modulation)
Video Frequency Response	dB	≤1(Within 5MHz)
Audio Input Level	dBm	0± 10
Audio input impedance		10kΩ min
Audio Band Flatness	dB	±1dB max (40Hz-15KHz)
Distortion		1%

Items	Unit	Specifications
Signal to Noise Ration	dB	-60dB
Difference of Video /Audio		5.5MHz±2KHz
Video S/N	dB	≥50
Power Supply		100-250Vac, 50Hz, 15W max.
Operation Temperature & Humidity		0℃~45℃、5%~75%
Storage Temperature & Humidity		-20℃~70℃、≤80% (Without Acidity Substance)
Mechanical Dimensions	mm	440x268x44

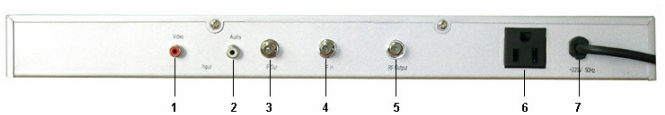
PANEL ILLUSTRATION

Front Panel



1.LED For power
2. RF output level adjust -20dB
3. A/V Adjust -17dB preset in factory
4. LED For channel display
5. Up and down key Adjust the channel
6. Volum control The volume increases by turning clockwise
7. Modulation Depth adjust The modulation depth increases by turning clockwise
8. RF Output Test Port (-30dB)

Rear Panel



1. Video Input (RCA female)
2. Audio dual (L/R) Input (RCA female)
3. IF Output
4. IF Input
5. RF Output
6. Power socket
7. Power cord (100V