

# HMA SERIES AGILE MODULATORS

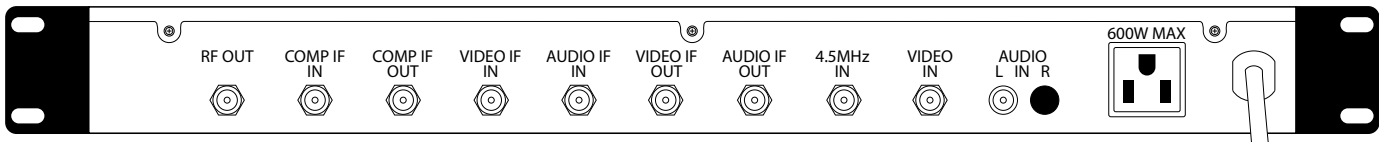
MODELS HMA-550H : HMA-860H



MODEL HMA-550H



MODEL HMA-860H



REAR VIEW OF HMA-550H & HMA-860H

## FEATURES

- **60 dBmV Output**
- **Triple I.F. Loop**
- **SAW Filtered**
- **Low Out-of-Band Noise**
- **Crystal Referencing PLL Tuning**
- **International Power Supply (90 - 260VAC)**
- **BTSC Stereo Compatible (ST-MOD)**
- **Easy-to-Read LED Channel Display**
- **Overmodulation Indicators**
- **Auxiliary AC Outlet**

## FREQUENCY AGILE MODULATORS

The **HMA-550H** and the **HMA-860H** are commercial grade, SAW filtered, frequency agile modulators specifically designed to meet the highest CATV performance standards. All channels are easily selected using front panel buttons and verified with an easy-to-read LED channel display. The modulators feature extremely low out-of-band noise allowing their use in large channel capacity head-ends. The **HMA-550H** and the **HMA-860H** modulators are the ideal choice for any system where performance, flexibility and reliability are required.

## AVAILABLE OPTIONS

Stereo Encoder (*ST-MOD*)



# HMA SERIES AGILE MODULATORS

## SPECIFICATIONS

RF	HMA-550H	HMA-860H
Output Channels	2 - 78 CATV (54 - 550 MHz)	2 - 135 CATV (54 - 860 MHz) 14 - 69 UHF (471 - 801 MHz)
FCC Offsets (Where Applicable)	±12.5 kHz, ±25 kHz (Selectable)	±12.5 kHz, ±25 kHz (Selectable)
Output Level	45 - 60 dBmV (Adj.)	45 - 60 dBmV (Adj.)
A/V Ratio	-9 to -20 dB (Adj.)	-9 to -20 dB (Adj.)
Frequency Stability	±5 kHz (Meets FCC Docket 21006)	±5 kHz (Meets FCC Docket 21006)
Aural Carrier Frequency	4.5 MHz ± 1 kHz	4.5 MHz ± 1 kHz
Spurious Outputs	-60 dBc	-60 dBc
C/N (In-Band)	65 dB	65 dB
Out-of-Band Noise	-75 dBc	-75 dBc
Output RL	15 dB	15 dB
<b>VIDEO</b>		
Input Level (Min.)	.7V p-p (for 87.5% Modulation)	.7V p-p (for 87.5% Modulation)
Frequency Response	±1 dB (50 Hz - 4.2 MHz)	±1 dB (50 Hz - 4.2 MHz)
Video C/N	60 dB	60 dB
Hum/Noise	-60 dB	-60 dB
Modulation Range	0 - 90%	0 - 90%
Input Impedance	75 ohms	75 ohms
Differential Phase	±5°	±5°
Differential Gain	± 5%	± 5%
Group Delay	75 ns	75 ns
<b>AUDIO</b>		
Input Level	.5V p-p (25 kHz Dev)	.5V p-p (25 kHz Dev)
Input Impedance	600 ohms (Unbalanced)	600 ohms (Unbalanced)
Distortion (THD)	1%	1%
Flatness	±1 dB (50 Hz - 15 kHz)	±1 dB (50 Hz - 15 kHz)
Pre-Emphasis	75 µs	75 µs
BTSC Stereo Encoder	Optional	Optional
<b>CONNECTORS</b>		
Video Input, RF Output, IF	F	F
Audio Input	RCA	RCA
<b>GENERAL</b>		
Power Requirements	90 - 260VAC (50 - 60 Hz), 25 W	90 - 260VAC (50 - 60 Hz), 25 W
Operating Temperature	0° to 50° Celsius	0° to 50° Celsius
Dimensions	19" x 1.75" x 12"	19" x 1.75" x 12"
Weight	7 lbs.	7 lbs.
Auxiliary Outlet	Yes	Yes
Test Port	-30 dB	-30 dB

NOTE: All specifications typical unless otherwise noted