



HAVM Series

Professional Agile Modulators

HAVM-1HA (Hyperband, 1 Channel)

Stock No. 5988HA

HAVM-2HA (Hyperband, 2 Channel)

Stock No. 5989HA

HAVM-1UA (UHF, 1 Channel)

Stock No. 5988UA

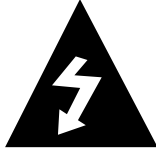
HAVM-2UA (UHF, 2 Channel)

Stock No. 5989UA



HAVM Series Instruction Manual

The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert you to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electrical shock to persons.



CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



The exclamation point within an equilateral triangle is intended to alert you to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

**TO REDUCE THE RISK OF ELECTRICAL SHOCK, DO NOT REMOVE COVER FROM THIS UNIT.
NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.**

WARNING: TO PREVENT SHOCK HAZARD, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE

NOTE TO CATV INSTALLERS

This reminder is provided to call the CATV System Installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Description

The HAVM Series includes professional quality, double side band agile modulators, designed for use in multi-room distribution systems to provide additional video sources, such as security cameras, laser disks, etc. Four models are available, including 1 or 2 channels and 300 to 550 MHz or 470 to 806 MHz frequency range. The HAVM Series has a rear panel switch for selecting either CATV (Hyperband) or UHF (Broadcast) channels, depending on the desired application.

These economically priced modulators provide very good picture quality for non-adjacent channel use. Agile channel selection makes setup fast and easy. Non-volatile memory ensures last channel recall even after a power outage. The HAVM Series products are housed in a standard cable converter style case with a rugged plastic front panel. LED display(s) and channel up/down buttons permit easy selection of the desired channel(s).

Features

- Professional Agile Double Side Band Modulators
- Four Models: 1 or 2 Channels (300-550 MHz or 470-806 MHz)
- +30 dBmV Output (Combined)
- Agile Channel Selection Via Front Panel Controls and LED Display
- Rear Panel Switch Select CATV or UHF Channel Map
- Non-Volatile Memory Retains Channel Information During Power Outages
- Cable Converter Style Case with Rugged Plastic Front Panel

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Specifications

RF	Typical
Frequency Range	
HAVM-1HA & HAVM-2HA - CATV:	300 to 550 MHz
HAVM-1HA & HAVM-2HA - UHF:	470 to 550 MHz
HAVM-1UA & HAVM-2UA - CATV:	550 to 800 MHz
HAVM-1UA & HAVM-2UA - UHF:	470 to 806 MHz
Output Level:	±30 dBmV
Visual Carrier Frequency Tolerance:	±25 kHz
Aural Carrier Frequency Offset	
From Visual Carrier:	+4.5 MHz
Spurious Outputs - Minimum	-50 dBc
Channel Memory:	non-volatile
Output Impedance:	75 Ω
Output Return Loss:	12 dB
Video	
Input Level:	1.0 V p-p (80 ±10% depth of modulation)
Frequency Response	
fv -0.5 MHz to fv +4.2 MHz:	±2 dB
P-P Video to RMS Hum Ratio:	60 dB
Video Signal-to-Noise Ratio, Weighted:	55 dB
Input Impedance:	75 Ω
Audio	
Input Level:	1.0 V p-p (for 25 kHz peak deviation)
Frequency Range:	50 Hz to 15 kHz
Frequency Response:	±2 dB (50 Hz to 15 kHz deviation)
Input Impedance:	600 Ω, unbalanced

Sub-Carrier Audio	
Frequency:	4.5 MHz
Stability:	±10 kHz (0 to +50° C)

General	
Power Requirements	
Voltage:	117, ±10 % VAC
Frequency:	60 Hz
Power:	6 W (1 Channel) / 10 W (2 Channel)
Temperature Range:	0 to +50 °C

Mechanical	
Dimensions	8.00" x 2.00" x 5.75", LxWxD 203 mm x 51 mm x 146 mm
Weight:	2.25 lbs. 1.02 kg

Connectors (Rear Panel)	
Video Input(s):	RCA Phono, female
Audio Input(s):	RCA Phono, female
RF Output:	"F" Type, female

Controls (Front Panel)	
Power ON/OFF:	Push Button
Channel UP/DOWN:	Push Button

Controls (Rear Panel)	
Hyper/UHF Select:	Slide Switch

Indicators (Front Panel)	
Power ON:	LED
Channel(s)	
HAVM-1HA & HAVM-1UA:	1-3 Digit, 7 Segment LED
HAVM-2HA & HAVM-2UA:	2-3 Digit, 7 Segment LED

Returning Product for Repair (or Credit)

A Return Material Authorization (RMA) Number is required on all products returned to Blonder Tongue, regardless if the product is being returned for repair or credit. Before returning product, please contact the Blonder Tongue Service Department at 1-800-523-6049, Ext. 4256 or visit our website: www.blondertongue.com for further information.



**BLONDER
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