

Warranty

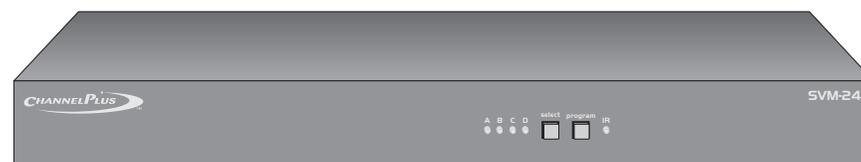
Multiplex Technology, Inc. warrants this product to be free from defects in materials and workmanship for a period of one year from the date of purchase or MTI will repair, or at its option, replace the defective product. To obtain warranty service, call MTI for a return material authorization (RMA) number and return the product prepaid to Multiplex Technology, Inc., 3001 Enterprise Street, Brea, CA 92821, Attention: Customer Service. Please put the RMA number on the outside of the carton.

Any implied warranty arising from the sale of the product including implied warranties of merchantability and fitness for purpose are limited to the warranty stated above. MTI shall not be responsible for losses or damages or expenses, whether direct, consequential or incidental arising from the use of or the inability to use this product. Some states do not allow limitations on how long the implied warranty lasts or the exclusion or limitation or incidental or consequential damages, so the above limitations and exclusions may not apply to you. This warranty gives you specific legal rights, and you may have other rights which may vary from state to state.



PERFORMANCE MULTI-ROOM VIDEO

Modulator Installation Manual



Frequency-Agile MTS Stereo Multi-channel Modulators with S-Video Inputs

Models SVM-24 / SVM-22

This device complies with the FCC's Part 15 Rules for TV interface devices. Any change or modification to this device without the permission of Multiplex Technology, Inc. may void the user's authority to operate this equipment.



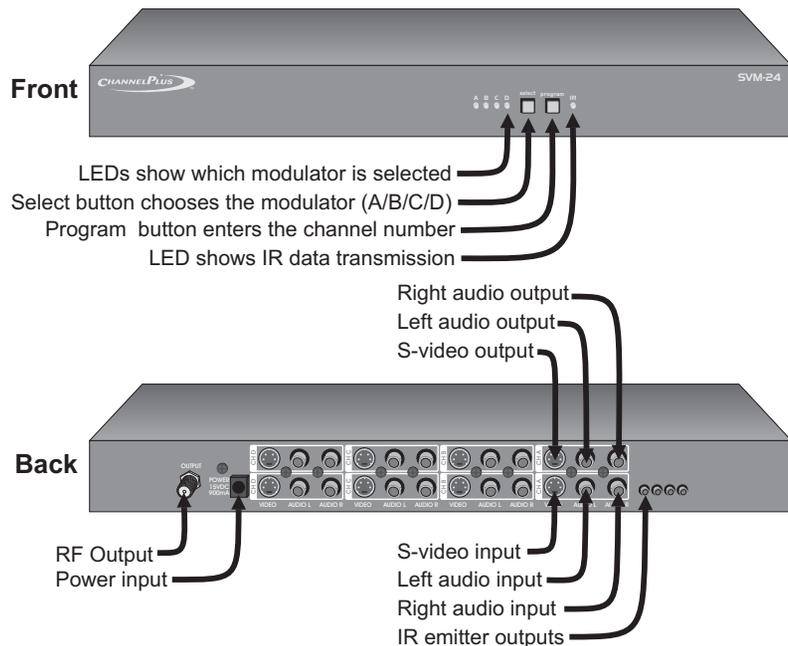
3001 Enterprise Street, Brea, CA 92821-6213, U.S.A.
714-996-4100 * 800-999-5225 * FAX 714-996-4900 * www.channelplus.com

The ChannelPlus SVM Series are digitally-tuned video modulators that convert any baseband video and audio signal to a user-selected UHF, or Ultraband CATV. An internal quartz crystal reference oscillator and PLL circuitry ensure drift-free performance. The user selects the output frequency (channel) using the "select" button to choose which modulator and the "program" button to enter the number of the desired channel. Any TV connected to the output via coax can receive the signals, when the TV is tuned to the proper channel. In addition, the SVM series encodes each channel using the MTS stereo standard. Stereo sound and surround sound information will be received by any MTS compatible television receiver.

Models available:

- SVM-24 4 channel modulator
- SVM-22 2 channel modulator

Controls and Connections - Model SVM-24 shown



AUTO TERMINATE FEATURE

All SVM modulators have built in loop through connectors so the user can connect video to a second device. SVM modulators terminate the inputs into a 75 ohm load. When a second cable is connected to the output, the SVM automatically disconnects this termination to allow the second device to terminate.

BASEBAND VIDEO

The SVM modulators come with converter plugs for regular baseband video sources. These can be used on inputs or outputs.

MOUNTING

The SVM modulators can be mounted in standard 19" racks by attaching the included mounting ears. Remove the rubber feet on the bottom of the unit to ensure clearance when inserted into a rack.

Changing modulation standards

Cable HRC and IRC considerations

Most cable services use IRC frequency assignments. This is the default for the ChannelPlus SVM series modulators. However, if the cable service uses HRC or the TV appears to search for the "house channels," the modulator can be reprogrammed to use HRC assignments by entering the number "98". Set to IRC by entering a "99". Both of these settings are only used for setting HRC/IRC. **Note:** This setting can be entered on any modulator channel, A, B, C, or D, and affects all channel assignments for that unit. Cable channels must either be all IRC or all HRC.

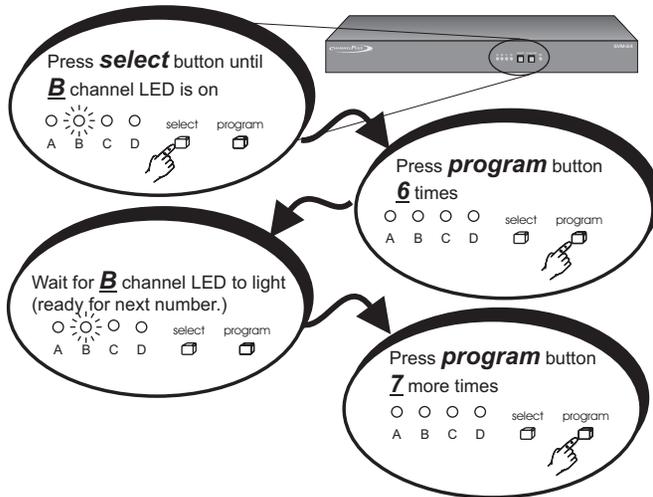
Specifications: typical @ 25°C ± 5°C

SVM Series modulators

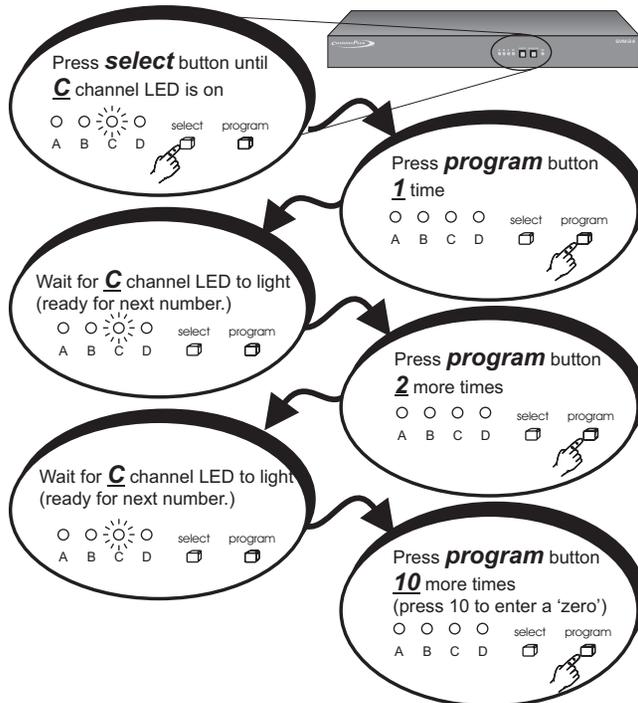
Inputs	s-video	1 Vp-p @ 75Ω	
	audio	1 V rms @ 47kΩ	
Video performance	differential gain	4%	
	differential phase	<4°	
	signal/noise	55 dB	
	channel ranges	14-64	65-125 (excluding 95-99)
RF output	standard	UHF	CATV
	channel ranges	14-64	65-125 (excluding 95-99)
	output level	+25 dBmV (85dBuV)	
	IM distortion	-60 dBC	
	alternate channel	-45dBC @ 12MHz	
	Power supply	model number	SVM-22
output current		900mA	900mA
output voltage		15 VDC	
input power		105-125 VAC	
power consumption		9 watts	11 watts
Physical		height	4.4 cm (1.75 in)
	width	43.2 cm (17 in)	
	depth	16.5 cm (6.5 in)	
	weight	1.19 kg (2 lbs 10 oz)	
	MTS audio performance	frequency range	20Hz - 12kHz
signal/noise		65 dB	
separation		25 dB @ 1000Hz	
surround sound		Compatible with Dolby full logic surround sound	
noise reduction		Certified dbx	

Programming Examples:

To program modulator **B** to channel **67**



To program modulator **C** to channel **120**



Valid Channels: 14-64: UHF channels
65-125: CATV channels
95-99: not valid

Channel Spacing: Skip at least one number between channels.
Channels 14 and 16: OK.
Channels 14 and 15: Illegal.

Error indication: If an error has occurred or an incorrect channel is entered, the LED will flash quickly for a second and return to the previous settings.

If two adjacent channels are selected, the unit will accept the entry but will blink the LEDs of channels that are too close. If this happens, re-program one of the channels to move it away from the other.

Channel number readback: A readback mode will display the current channel assignments.

To readback modulator **C** channel assignment (example: C has been programmed to channel **108**)

