

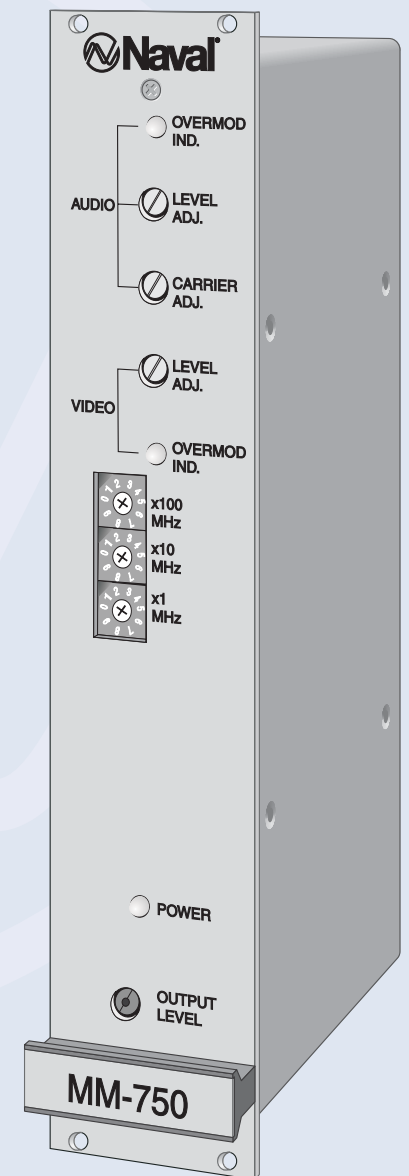
# MM-750 VHF/ UHF TV Modulator

Naval's new multi purpose TV modulator MM-750 VHF/UHF is designed for SSB operation in the wide frequency range of 40-750MHz. For adjacent channel operation the MM-750 features low spurious levels due to modern PLL/digital synthesizer technique. High adjustable output level is significant for this unit. The modulator is equipped with two individual input level adjustments for video and audio signal. The modulator is also equipped with a indicator for overmodulation.

The modulator is available for either NTSC or PAL, please specify the system.

Front panel control switches for easy setting of output frequency and all video, audio and RF outputs in the rear for easy connection. The module can be installed into a 19" rack or separately with optional panel mounting brackets. Available from stock. Please contact Naval for more detailed information.

TECHNICAL SPECIFICATIONS		
<b>RF Output Section</b>	Output frequency range	40 - 750 MHz
	Return loss	12 dB min @ <450 MHz 8 dB min @ <750 MHz
	Output level	92 dB $\mu$ V
	Tuning increment	1/ 10/ 100 MHz
	Output level adjustable	0~ -18 dB
	Aural/visual carrier ratio	-12~ -20 dB
	Visual carrier freq. tolerance	$\pm$ 10 kHz
	Aural/visual carrier spacing	PAL B/G 5.5 MHz, PAL M 4.5 MHz or PAL I 6.0 MHz or NTSC 4.5 MHz ( <i>please specify</i> )
	Spurious output	<-52 dB
	C/N ratio in channel	> 65 dB
Output impedance	75 ohm	
<b>Video Input Section</b>	Input level (75 Ohm unbal.)	0.6~1.5 Vpp
	Frequency response	$\pm$ 1 dB
	P-P video to RMS hum ratio	48 dB
	Video S/N ratio, weighted	58 dB
	Differential gain	<4 %
	Differential phase	<4 $^{\circ}$
	C/L delay inequality	<20 ns
	Over modulation indicator	87.5 $\pm$ 2.5 %
Input impedance	75 ohm	
<b>Audio Input Section</b>	Frequency range	50 Hz to 15 kHz
	Pre-emphasis-mono	50 $\mu$ s PAL, 75 $\mu$ s NTSC
	Audio S/N	60 dB
	Total harmonic distortion	< 1 %
	Over modulation indicator	PAL 52 $\pm$ 2 kHz, NTSC 25 $\pm$ 2 kHz
Input impedance	10 kohm, unbalanced	
<b>General</b>	Input voltage	15 V DC
	Power consumption	500 mA
	Dimension (HxWxD)	262 x 51 x 147 mm
	Temperature range	0 $^{\circ}$ ~+50 $^{\circ}$ C
	Weight:	850 g
<b>Connectors</b>	Audio in	RCA, female, pict. (A)
	Video in	RCA, female, pict. (A)
	RF out	F-conn. female
	Power supply	DC-connector, pict. (B)
	<i>(For illustrations, turn page)</i>	



Size: (H) 262 x (W) 51 x (D) 147 mm

0806

Since 1971, the objective of Naval Electronics has been to offer the best possible products for TV and Radio reception at sea. Naval began with omnidirectional antennas and is the world leader in this field of technology today. Now, with an expanded product range, the name Naval means much more than antennas. Naval operates in more than 40 countries and has installations on thousands of vessels all over the world.

All specifications stated are subject to change without notice.



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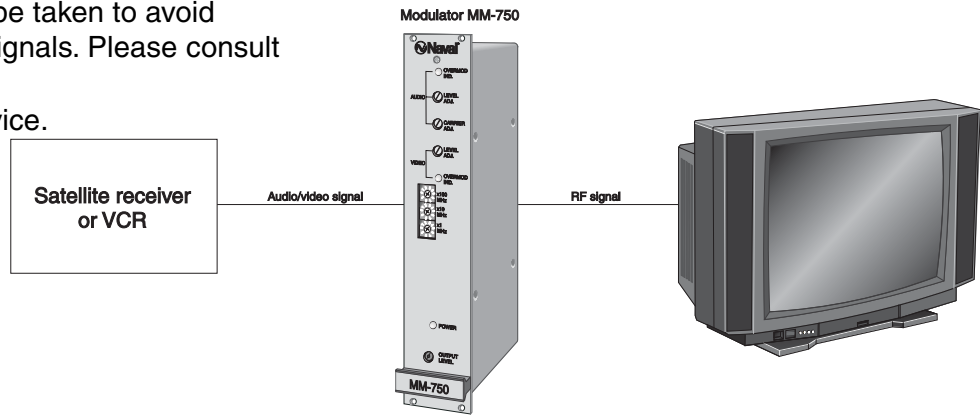
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## Configuration example

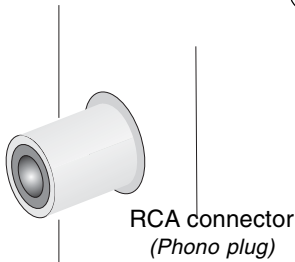
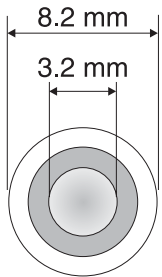
The picture shows a typical configuration using MM-750 in a distribution network. Several MM-750 can be combined into the same output by using SP2F/SP4F splitter/combiner.

When combining the signal to a CAS 3500 system special precaution needs to be taken to avoid interference with terrestrial signals. Please consult your distributor or Naval Electronics AB for advice.



Modulates the audio/video signals to a fixed TV channel on the distribution network

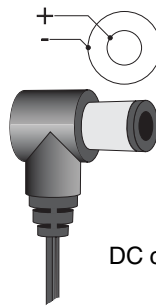
## Connectors



RCA connector  
(Phono plug)

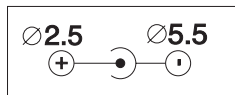
(A)

(B)



DC connector

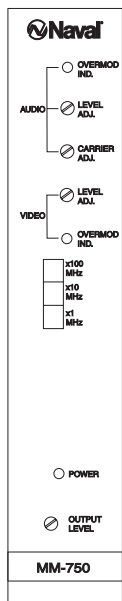
DC



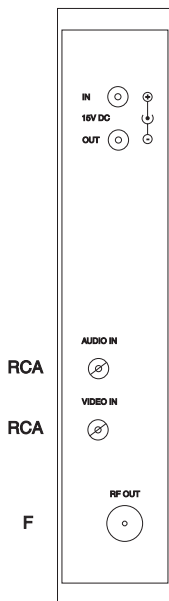
## Overview

MM-750

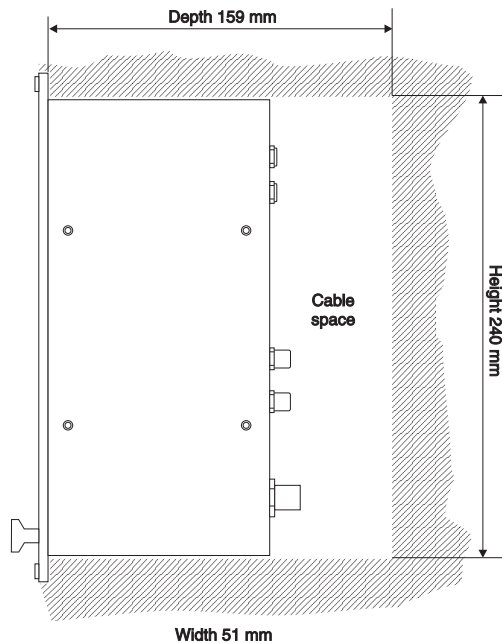
Front view



Rear view



## Dimensions



Description:	Order no:	Shippingweight: 1.0 kg
MM-750 PAL B/G	250.140	
MM-750 NTSC	250.141	
MM-750 PAL I	250.142	Volume: 2.0 dm <sup>3</sup>
MM-750 PAL M	250.143	
Mounting bracket	164.144	(2 pcs. required)