

# M101-150-8TRM

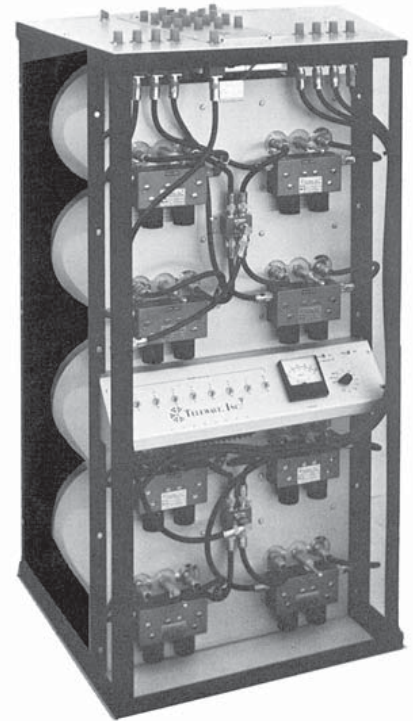
## LOW LOSS VHF COMBINER

The Telewave M101-150 Low Loss VHF Combiner is a unique, fully self-contained transmitter and receiver combining system. The custom welded 24" steel frame provides a rugged enclosure for all standard and optional system components. This integrated design allows channels to be added, retuned, or removed in the field at any time, without disrupting other active channels. The standard 24" x 48" rack handles up to 8 channels and 1 or 2 transmit antenna outputs.

10-inch High-"Q" cavities with dual isolators provide at least 75 dB isolation between channels, and the optional receiver panel can drive as many as 64 receivers from a single antenna. The PM8C2S wattmeter panel allows forward or reverse power monitoring for each channel, or total power to each antenna. Up to 8 transmitters can be remotely keyed with front panel switches. All components in this system are passive, except the optional receiver amplifier.

### FEATURES

- ALL TUNING FROM FRONT
- 8 TRANSMITTERS INTO ONE ANTENNA
- UP TO 64 RECEIVERS FROM ONE ANTENNA
- SELF-CONTAINED, BUILDING BLOCK CONCEPT
- ONLY 2.8 dB INSERTION LOSS TO EACH TRANSMITTER WITH PROPER FREQUENCY SELECTION
- ALL CONNECTIONS AT TOP OF RACK
- 75 dB TX TO TX PROTECTION
- 130 dB RX INTERMOD PROTECTION
- RF POWER MONITORING FOR ALL CHANNELS AND ANTENNA
- REMOTE TX KEYING
- FIELD TUNABLE



COMBINER		RECEIVER SYSTEM (option)	
Channels	8 channels into one antenna	System gain	+4 to +6 (typ)
Frequency range	148-174 MHz	Noise figure	2.5 dB (typ.)
Impedance	50 ohms	3rd order intercept	+36 dBm (typ)
TX-to-TX isolation	75 dB or greater	RX-to-RX isolation	25 dB (typ)
2nd harmonic supr.	90 dB or greater	Power reverting	Optional
Insertion loss (Dependent on spacing)	3.0 dB typ. at 275 KHz (Determined by freq. spacing)	Power supply input	120 / 220 VAC +15 or +24 VDC
Input power (max)	150 watts / channel	Average battery drain	170 mA at 15 VDC
Power metering	PM8C2S (8 channels)		
Temperature range	-30°C to +60°C		
Dimensions (HWD) in. (cm)	48 x 24 x 31 (122 x 61 x 79)		
Weight lb. (kg)	175 (79.5)		