

VR9000 Specifications

GENERAL

Model	VR9000
Frequency Range :	A: 28.015 ~ 28.455 MHz B: 28.145 ~ 28.585 MHz C: 28.115 ~ 28.555MHz D: 28.085 ~ 28.525 MHz E: 28.055 ~ 28.495 MHz F: 28.025 ~ 28.465MHz
Frequency Control	Phase-Locked-Loop Synthesizer
Frequency Tolerance	0.005%
Frequency Stability	0.001%
Temperature Range	-30°C to +50°C
Microphone	Plug-in dynamic; with push-to-talk switch and coiled cord
Input Voltage	DC 13.8 V normal, 15.9V max.; 11.7 min. (positive or negative ground) Transmit : AM full mod; 4A. SSB 21 watts PEP output, 6A. Receiver : Squelched, 0.6A. Maximum audio output, 1.2A.
Size	2 3/8" (H) x 7 7/8" (W) x 9 1/4" (D)
Weight	5 lb
Antenna Connector	UHF, SO239.
Meter (3-in-1)	Illuminated; indicates relative output power, received strength, and SWR.

TRANSMITTER

Power Output	AM/FM/CW: 10W. SSB: 21W. (PEP)
Modulation	High and low level class B, Amplitude Modulation: AM, Variable capacitance Frequency Modulation: FM
Intermodulation Distortion	SSB: 3 rd order, more than -25dB 5 th order, more than -35dB
SSB Carrier Suppression	55dB
Unwanted Sideband	50dB
Frequency Response	AM and FM : 450 to 2500 Hz
Output Impedance	50 ohms, unbalanced.
Output Indicators	Meter shows relative RF output power and SWR. Transmit LED glows red when transmitter is in operation.

RECEIVER

Sensitivity	SSB: 0.25 μ V for 10dB (S+N)/N at greater than 1/2 – watt of audio output. AM : 1.0 μ V for 10dB (S+N)/N at greater than 1/2 – watt of audio output. FM : 1.0 μ V for 20dB (S+N)/N at greater than 1/2 – watt of audio output.
Selectivity	AM/FM : 6 dB @3 KHz, 50 dB @9 KHz. SSB : 6dB @2.1 KHz, 60dB @3.3KHz.
Image Rejection	More than 65dB.
IF Frequency	AM,FM : 10.695MHz 1 st IF , 455 KHz 2 nd IF SSB : 10.695 MHz
Adjacent –Channel Rejection	60 dB AM/FM & 70dB SSB.
RF Gain Control	45 dB adjustable for optimum signal reception
Automatic Gain Control (AGC)	Less than 10 dB change in audio output for inputs from 10 to 100,000 microvolts.
Squelch	Adjustable; threshold less than 0.5 μ V.
ANL	Switchable.
Noise Blanker	RF type, effective on AM/FM and SSB.
Clarifier Range	Fine (TX/RX) \pm 1 KHz.
Audio Output Power	4 watts into 8 ohms
Frequency Response	300 to 2800 Hz
Built –in Speaker	8 ohms, round.
External Speaker (Not Supplied)	8 ohms; disables internal speaker when connected.