



VRC-220/E VHF Vehicular Radio Communication System

VRC-220/E Software Defined Handheld Radio Communication System is a tactical secure radio with capability of establishing voice/data communication in fixed/hopping frequency mode. This radio is compatible with VHF/LB analog radios in frequency band of 30-88MHz. There are four selectable power levels (Low, Medium, High, and Very High) considered in the radio so that it covers a wide transmission range. In addition, Fixed/Hopping frequency mode, Code/Plain voice and data transmission, SMS sending, Various types of analog/digital modulations, establishing selective/group/broadcast communication, Software upgrading/programming, Hailing/Plain override/Late Entry, GPS, network connection, and remote controlling (via the RS-485/LAN/ISDN) are the other capabilities of the VRC-220/E.



Frequency band	30~88 MHz
Frequency channel spacing	
Frequency stability	±1PPm
Number of preset channels	100 channels
Supply	23-28 VDC
Data transmission rate	up to 9.6Kbps
Modulation type	FM/QPSK/CPM/FSK
Vocoder type	MELP/CVSD/AMBE
Voice/data operation type	FIX FREQUENCY (CLEAR/CIPHER)
Antenna type	FREQUENCY HOPPING (CIPHER)
Antenna type	Rod

Receiving specifications

Sensitivity	117dBm/12dB SINAD
Adjacent channel rejection	>60dB
IF rejection	>70dB
Image rejection	>70dB
Audio distortion	less than 5%

Transmitting specifications

Transmitter power	0.5W-5W-10W,20W,40W ±1.5dB
Harmonic rejection	50dBc
Spurious signal rejection	60dBc
Modulated frequency change	5.5±1.0 KHz

Physical & environmental specifications

Dimension (W×H×D)	280×190×280 mm
Weight	less than 14kg
Operating temperature	25°C ~ +65°C
Storage temperature	40°C ~ +65°C
Environmental standard	
EMC standard	MIL-STD-461F