



HRC-220/E VHF Software Defined Handheld Radio Communication System

HRC-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. 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, connecting to external GPS (optional), network connection (optional), and remote controlling (optional) via the RS-485/LAN/ISDN are the other capabilities of the HRC-220/E.



General	l specifications	
Ochlora	i opeeilleations	

Frequency band	30-88 MHz
Frequency channel spacing	12.5/25KHz
Frequency stability	±1 ppm
Preset channels	256 channels
Supply	13-16.4VDC battery pack
	Battery life time: 8h (1-1-8)
Data transmission rate	up to 9.6Kbps
Modulation types	FM/QPSK/CPM/FSK
Vocoder types	MELP/CVSD/AMBE
Voice/Data operating modes	FIX FREQUENCY (PLAIN/CIPHER)
	FREQUENCY HOPPING (CIPHER)
Antenna type	Whip
• .	

RX specifications

Receiving sensitivity	117 dBm/12 dB SINAD
Adjacent channel rejection	>35 dB
Intermediate Frequency rejection	>70 dB
Image frequency rejection	>70 dB
Audio distortion	less than %5

TX specifications

Transmitter power	0.5W-5W ±1.5dB
Harmonic rejection	
Spurious signals rejection	60dBc
Deviation of the modulated frequency	5.5±1.0 KHz

Environmental and mechanical specificationsOperating temperature

Operating temperature	25°C ~ +65°C
Storage temperature	40°C ~ +65°C
Physical dimension	48 × 75 × 240 mm
Weight	less than 1 kg (without battery)
Environmental standard	MIL-STD-810G
EMC standard	MIL-STD-461F