

Specifications

VX-414/424 VHF		VX-417/427 UHF	
General			
Frequency Range	146-174 MHz	450-490 MHz	
Number of Channels	32 channel (16 channel x 2 Groups)		
Channel Spacing	25/20/12.5 kHz		
Battery Life	W/FNB-V67LI(1600mAh): 10hrs. (13hrs. w/saver) W/FNB-V57(1100mAh): 7hrs. (8.8hrs. w/saver)	W/FNB-V67LI(1600mAh): 9.5hrs. (12hrs. w/saver) W/FNB-V57(1100mAh): 6.5hrs. (8hrs. w/saver)	
Battery voltage	7.5 VDC ±20 %		
Temperature Range	-22° F to +140° F (-30° C to +60° C)		
Case size (W x H x D)	2.3 x 4.3 x 1.2 inches with FNB-V57 (58 x 108.5 x 30 mm with FNB-V57)		
Weight (approx.)	10.6 oz (300 g) with FNB-V67LI, Antenna and Belt clip		
Receiver Measurements made per EIA standard TIA/EIA-603			
Circuit Type	Double-conversion Super-heterodyne		
IFs	50.85 MHz & 450 kHz		
12-dB SINAD Sensitivity	< 0.25 μV		
Squelch Sensitivity	< 0.20 μV		
Adjacent Selectivity	> 70 dB (25/20 kHz) / > 65 dB (12.5 kHz)		
Intermodulation	> 70 dB		
Spurious Rejection	> 70 dB		
Image Rejection	> 70 dB		
FM Hum and Noise	> 45 dB		
AF Output	0.5 W @ 4 Ohms, 5 % THD		
Transmitter Measurements made per EIA standard TIA/EIA-603			
Power Output	5.0/1.0 W (Selectable)		
Frequency Stability	better than ±2.5 ppm		
Modulation System	16K0F3E / 11K0F3E		
Maximum Deviation	±5.0 kHz (25 kHz) / ±2.5 kHz (12.5 kHz)		
FM Noise	> 45 dB		
Spurious Emission	70 dB below carrier		
AF Distortion (@1 kHz)	< 3 %		
Microphone Type	2-k Ohms condenser		

Measurements per EIA standards unless noted above. Specifications are subject to change without notice or obligation.

Accessories & Options

 MH-45B4B Speaker/Microphone	 Speaker/ Microphone MH-360S Miniature type MH-45S0S Small type	 MH-37A4B Speaker/Microphone
 VC-25 VOX Headset	 FVP-25 DTMF Pager Unit	 FVP-35 Rolling Code Encryption Unit
 DVS-5 Digital Voice Storage Unit	 VME-100 MDC1200®/IGE-STAR® ANI Encoder Unit	 VMDE-200 MDC1200®/IGE-STAR® ANI Encoder/Decoder Unit
 MDC1200 MDC-1200® ANI Encoder Unit	 FNB-V94 7.2V 1800 mAh Ni-MH Battery Pack	 FNB-V67LI 7.4V 1600 mAh Lithium-Ion Battery
 FNB-83 7.2V 1400 mAh Ni-MH Battery Pack	 FNB-V57 7.2V 1100 mAh Ni-Cd Battery Pack	 FNB-V57IS 7.2V 1100 mAh Ni-Cd Intrinsically Safe (IS) Battery
 FBA-25A Alkaline Battery Case (6 x AA size)	 VAC-10B/C* Desktop Charger (for FNB-V57I-V57IS-V94/83)	 VAC-800B/C* Desktop Rapid Charger (for FNB-V57I-V57IS) VAC-810B/C* Desktop Rapid Charger (for FNB-V67LI)
 VAC-6800 6-Unit Multi Charger (for FNB-V57I-V57IS) VAC-6810 6-Unit Multi Charger (for FNB-V67LI)	 VAC-6010 6-Unit Multi Charger (for FNB-V57I-V57IS-V94)	 VCM-1 Mobile Mounting Bracket for VAC-800/810

Applicable MIL-STD

Standard	MIL 810D Methods/Procedures	MIL 810E Methods/Procedures	MIL 810F Methods/Procedures
Low Pressure	500.2/Procedure I, II	500.2/Procedure I, II	500.3/Procedure I, II
High Temperature	501.2/Procedure I, II	501.3/Procedure I, II	501.4/Procedure I, II
Low Temperature	502.2/Procedure I, II	502.3/Procedure I, II	502.4/Procedure I, II
Temperature Shock	503.2/Procedure I	503.3/Procedure I	503.4/Procedure I, II
Rain	506.2/Procedure II	506.3/Procedure II	506.4/Procedure I, III
Humidity	507.2/Procedure II, III	507.3/Procedure II, III	507.4
Salt Fog	509.2	509.3	509.4
Dust	510.2/Procedure I	510.3/Procedure I	510.4/Procedure III
Vibration	514.3/Procedure Cat. 10	514.4/Procedure Cat. 10	514.5/Procedure Cat. 24
Shock	516.3/Procedure I	516.4/Procedure I	516.5/Procedure I

Intrinsically Safe Information

The VX-410/420 Intrinsically Version, equipped with any of optional units, meets the requirements of ANSI/UL913 6th Edition for Class I, Division 1, Groups A-D; Class II, Groups E-G; and Class III for hazardous locations.

 CT-27A Cloning Cable (Set-to-Set Cloning)	VH-115S Lightweight headset w/ Boom VH-215S Lightweight Padded headset, Single Speaker VH-225S Lightweight Padded Headset, Dual Speaker CLIP-17C Swivel Belt Clip
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*B for 120 VAC / C for 220-240 VAC

Programming Cable	USB	FIF-10/A + CT-106
	RS-232C	CT-29 + CT-28
Programming Software	CE64	

ANTENNA LIST

UHF	ATU-6D	450-485 MHz	
	ATU-6DS	450-485 MHz/3.5"	
VHF	ATV-6A	134-151 MHz/3.5"	ATV-10A 145-155 MHz HIGH GAIN
	ATV-6B	150-163 MHz/3.5"	ATV-10B 150-160 MHz HIGH GAIN
	ATV-6C	161-174 MHz/3.5"	ATV-10C 155-165 MHz HIGH GAIN
	ATV-6XL	VHF UNTUNED	ATV-10E 165-175 MHz HIGH GAIN
	ATV-8A	134-151 MHz	
	ATV-8B	150-163 MHz	
ATV-8C	161-174 MHz		



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