

VX-2000V/2000U

VHF Series

UHF Series

4/40 Channel Mobile Radios

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The multi-purpose VX-2000 series mobiles, with rugged MIL-STD 810 C/D/E ratings, meet the demanding requirements of public safety and commercial communications for today and the future. Available in 25W VHF and 25W UHF, each model provides programming flexibility on a per channel basis for narrowband (12.5 kHz) and wideband (25 kHz) requirements.

Both the 4 and 40 channel versions include CTCSS and DCS Encode/Decode and are easily programmed via PC. All models offer a built-in DB-9 connector for accessory/data applications. State-of-the-art surface mount design and a rugged, die-cast aluminum chassis assure high reliability and unparalleled performance.

The VX-2000 mobiles are designed to permit maximum flexibility for today's installation requirements.

• Frequency Range:

VHF: 134 MHz~174 MHz, 25 Watt

UHF: 400 MHz~512 MHz, 25 Watt

• Available in two versions:

4 Channel with LED Display

40 Channel with LED Display

• MIL-STD 810 C/D/E

• CTCSS Encode/Decode

• DCS Encode/Decode

• 12.5/25 kHz Bandwidth

Programmable by Channel

• PC Programmable

• Radio to Radio Cloning

• Built-in DB-9 Connector for

Accessory/Data applications

• External Speaker Audio:

5 Watts



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Specifications

General Specification	VX-2000V VHF Highband	VX-2000U UHF Band
Number of Channels	4,40	
Frequency Range	134~160 MHz(A) 148~174 MHz(C)	400 ~ 430 MHz (A) 450 ~ 480 MHz (D) 480 ~ 512 MHz (F)
Maximum Channel Spread	26 MHz (A) 26 MHz (C)	30 MHz (A) 30 MHz (D) 32 MHz (F)
Channel Spacing	12.5/25 kHz	
Power Supply Voltage	10.8 to 15.6 VDC	
Current Consumption		
Standby	250 mA	
Receive	500 mA	
Transmit	6.5 A	
Ambient Temperature Range	-30°C to +60°C	
Frequency Stability	±0.00025%	
RF Input-Output Impedance	50 ohms	
Audio Output Impedance	4 ohms	
Dimensions (WxHxD)	6.25" x 1.5" x 4.25" (160 x 40 x 105 mm)	
Weight	1.9 lbs (0.85 kg)	

Receiver Specifications	Measurements made per EIA standard EIA-204D	
Circuit Type	Double Conversion Superheterodyne	
Sensitivity		
EIA 12 dB SINAD	0.20 µV	0.25 µV
20 dB Quieting	0.30 µV	0.35 µV
Adjacent Channel Selectivity	70 dB (25 kHz), 60 dB (12.5 kHz)	
Intermodulation	65 dB	
Spurious and Image Rejection	65 dB	
Audio Response	+3/-8 dB from the 6 dB/oct. De-emphasis curve	
Audio Output	5 W 4 ohms w/<10% THD	

Transmitter Specifications	Measurement made per EIA standard EIA-152-C	
Power Output	25/5 W	
Modulation	16K0F3E, 11K0F3E	
Maximum Deviation	±5 kHz (25 kHz), ±2.5 kHz (12.5 kHz)	
Conducted Spurious Emissions	65 dBc	
FM Hum and Noise	45 dB (25 kHz), 40 dB (12.5 kHz)	
Audio Response	+1/-3 dB from the 6 dB/oct. Pre-emphasis curve	
Audio Distortion (@1 kHz)	<5%	

Military Standards 810 C/D/E		
Method 500.2, Procedure 1	Method 503.3, Procedure 1	Method 509.3, Procedure 1
Method 500.3, Procedure 1	Method 505.2, Procedure 1	Method 510.2, Procedure 1
Method 501.1, Procedure 1,2	Method 505.3, Procedure 1	Method 510.3, Procedure 1
Method 501.2, Procedure 1,2	Method 506.1, Procedure 2	Method 514.2, Procedure 1,8
Method 501.3, Procedure 1,2	Method 506.2, Procedure 2	Method 514.3, Procedure 1,8
Method 502.2, Procedure 1	Method 506.3, Procedure 2	Method 514.4, Procedure 1,8
Method 502.2, Procedure 2	Method 507.1, Procedure 2	Method 516.2, Procedure 1,4
Method 502.3, Procedure 1	Method 507.2, Procedure 2	Method 516.3, Procedure 1,4
Method 502.3, Procedure 2	Method 507.3, Procedure 2	Method 516.4, Procedure 1,4
Method 503.2, Procedure 1	Method 509.2, Procedure 1	

Accessories & Options

- F2D-4/4B** 2-Tone Decoder Unit
- FP-1030A** 25 Amp Power Supply (117/220 VAC)
- FTE-18** ANI Unit
- MLS-100** External Speaker (12 Watt)
- LF-1** Plug-in DC Line Filter
- MD-11A8J** Desktop Microphone
- VTM-20** VX-Trunk II Trunking Mobile Logic Board
- VPL-1** Radio to Computer Programming Cable
- CE-20** Programming Software
- T9101411** Radio to Radio Cloning Cable



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Measurements per EIA standards unless noted above. Specifications subject to change without notice or obligation.
Various accessories may not be available in some countries.