

VX-2000 SERIES 4 / 40 Channel 25 W VHF/UHF Mobile Radios

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 25 W VHF and 25 W 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 application. 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.

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)
Channels Spacing	12.5/25 kHz	
Power Supply Voltage	10.8 to 15.6 VDC	
Current Consumption	250 mA 500 mA 6.5 A	
Ambient Temperature Range	-30° C to + 60° C (-22 F to + 140 F)	
Frequency Stability	EIA: ± 2.5 ppm ETS: ± 1.5 kHz	
RF Input-Output Impedance	50 ohms	
Audio Output Impedance	4 ohms	
Dimensions(WxHxD)	160 x 40 x 105 mm (6.25" x 1.5" x 4.25")	
Weight	0.85 kg (1.9 lbs)	

Receiver Specification	Measurements made per EIA/ETS standard	
Circuit Type	Double Conversion Superhetrozyne	
Sensitivity	0.20 μ V 0.30 μ V 0.50 μ V (emf)	
EIA 12 dB SINAD	0.20 μ V	0.25 μ V
20 dB Quieting	0.30 μ V	0.35 μ V
ETS(20 dB SINAD)	0.50 μ V (emf)	0.50 μ V (emf)
Adjacent Channel Selectivity	EIA: 70 dB (25 kHz), 60 dB (12.5 kHz)	ETS: 70 dB (25 kHz), 60 dB (12.5 kHz)
Intermodulation	EIA: 65 dB	ETS: 60 dB
Spurious and Image Rejection	EIA: 65 dB	ETS: 65 dB
Audio Output	5 W 4 ohms w/ < 10% THD	

Transmitter Specification	Measurements made per EIA/ETS standard	
Power Output	25/5 W	
Modulation	EIA: Dired FM 16K0F03, 11K0F3E	ETS: 16K0G3E, 8K50G3E
Maximum Deviation	± 5 kHz (25 kHz), ± 2.5 kHz (12.5 kHz)	
Conducted Spurious Emissions	EIA: 65 dBc	ETS: -36 dBm \uparrow 1 GHz, -30 dBm $>$ 1 GHz
FM Hum and Noise	45 dB (25 kHz), 40 dB (12.5 kHz)	
Audio Distortion (@1 kHz)	<5%	

Measurements per EIA / ETS standards unless noted above. Specification subject to change without notice or obligation.

APPLICABLE MIL-STD

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-1023A	External Power Supply 23 A DC
FTE-18	ANI Unit
MLS-100	External Speaker (12 Watt)
LF-1	Plug-in DC Line Filter
MD-11A8J	Desktop Microphone
MH-700D	DTMF Back-lit 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



FP-1023A



MD-11A8J



MH-700D



MLS-100



FTE-18