VX-2000 SERIES

VHF/UHF Mobile Radios



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 flexbility for today's installation requirements.

0.85 kg (1.9 lbs)

SPECIFICATIONS VX-2000V (VHF Highband) VX-2000U (UHF band) **General Specification** Number of Channels 4/40 Frequency Range 134 ~ 160 MHz (A) 400 ~ 430 MHz (A) 148 ~ 174 MHz (C) 450 ~ 480 MHz (D) 480 ~ 512 MHz (F) Channels Spacing 12.5/25 kHz 10.8 to 15.6 VDC Power Supply Voltage Current Consumption Standby 250 mA Receive 500 mA Transmit 6.5 A Ambient Temperature Rnage -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 Dimensions(WxHxD) 160 x 40 x 105 mm (6.25" x 1.5" x 4.25")

Receiver Specification	Measurements made per EIA/ETS standard	
Circuit Type	Double Conversion Superheteroyne	
Sensitivity EIA 12 dB SINAD 20 dB Quieting ETS(20 dB SINAD)	0.20 μV 0.30 μV 0.50 μV (emf)	0.25 μV 0.35 μV 0.50 μV (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 Emisions	EIA: 65 dBc	ETS: -36 dBm † 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

Weight

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



About this brochure: We have made this brochure as comprehensive and factual as possible. We reserve the right, however, to make changes at any time in equipment, optional accessories, specifications, model numbers, and availability. Precise frequency range may be different in some countries. Some accessories shown herein may not be available in some countries. Some information may have been updated since the time of printing; please check with your Authorized Vertex Standard Dealer for complete details.



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