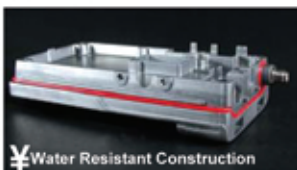


MIL-STD 810 C/D/E

Built to meet or exceed the requirements of the U.S. MIL-STD 810 C/D/E standards, the VX-160 is designed to survive under difficult operating conditions of shock, vibration, and driving rain. Cost-performance begins with durability, and the Mil-Spec toughness of the VX-160 is your guarantee of its design quality.



SUPER RUGGED CONSTRUCTION

Housed inside a high-impact case, the diecast chassis of the VX-160 provides a solid, rugged foundation for the VX-160's circuitry. Built to survive in the real world of factory, construction site, or fleet use, the VX-160 will provide many years of reliable communications.

CTCSS / DCS ENCODE + DECODE

High-performance Encoder/Decoder circuits for both CTCSS and Digital Code Squelch are provided, for access to tone/code controlled systems. DCS is ideal for crowded RF environments, providing superior immunity from false opening of squelch.

DTMF ANI DECODE

The VX-160 includes a DTMF Automatic Number Identifier (ANI) circuit, which will respond to an incoming ANI burst for selective paging of an individual portable.

VERSATILE SCANNING FEATURES

The high-speed scanning capability of the VX-160 includes All-Channel scanning, plus Dual Watch and Priority Channel capability. And with Follow-Me scanning, a designated channel may be watched during scanning of other channels.

DUAL 2-TONE DECODE

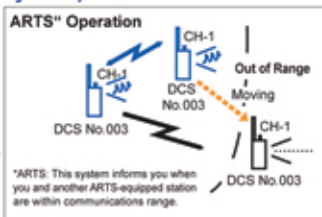
This built-in feature allows you to decode up to two, 2-tone pairs per channel. These can be used for two individual pager calls, or one for Individual and one for Group call.

BCLO, BTLO, AND TOT

To facilitate efficient channel management, the VX-160 provides Busy Channel Lock-Out (BCLO) and Busy Tone Lock-Out (BTLO) features. What's more, the transmitter's Time-Out Timer (TOT) function prevents a stuck microphone condition from jamming a channel for an extended period of time.

ARTS™ (Auto Range Transponding System)

Included in the VX-160 is Vertex Standard's exclusive ARTS™ feature, which can be critically important in search-and-rescue applications. ARTS™ provides a hand-shake with other ARTS™-equipped transceivers, and the display indicates if an Out of Range condition exists. The base station can then alert the field unit to move to a better location.



TX/RX BATTERY SAVER CIRCUIT

To maximize battery life, the VX-160 includes both transmit- and receive-mode battery savers. On transmit, the portable will reduce power when the incoming signal is very strong. On receive, the radio will put itself into a pulsing sleep mode, periodically checking for channel activity.

PC PROGRAMMING

The channel and feature configurations are easily programmed in minutes by the dealer, using the optional CT-42A Programming Cable and CE44 Programming Software.

RADIO TO RADIO CLONE FEATURE

For quick programming of VX-160 radios for fleet use, the Clone feature allows copying of all channel and other configuration data from one VX-160 to another, using the optional CT-27 Cloning Cable.

500 mW AUDIO OUTPUT

Ideal for reception in noisy environments, the VX-160's high-powered audio is coupled to a large internal speaker, assuring solid copy throughout difficult construction site or field operations.

APPLICABLE MIL-STD

Standard	MIL 810C Methods/Procedures	MIL 810D Methods/Procedures	MIL 810E Methods/Procedures
Low Pressure		500.2/Procedure 1	500.3/Procedure 1
High Temperature		501.2/Procedure 1, 2	501.3/Procedure 1, 2
Low Temperature		502.2/Procedure 1, 2	502.3/Procedure 1, 2
Temperature Shock		503.2/Procedure 1	503.3/Procedure 1
Solar Radiation		505.2/Procedure 1	505.3/Procedure 1
Rain		506.2/Procedure 2	506.3/Procedure 2
Humidity		507.2/Procedure 2	507.3/Procedure 2
Salt Fog		509.2/Procedure 1	509.3/Procedure 1
Dust		510.2/Procedure 1	510.3/Procedure 1
Vibration	514.2/Procedure 8	514.3/Procedure 1 Cat. 10	514.4/Procedure 1 Cat. 10
Shock	516.2/Procedure 1	516.3/Procedure 1, 4	516.4/Procedure 1, 4

Specifications

	VX-160V	VX-160U
General Specifications		
Frequency Range	134-160 MHz (A) 148-174 MHz (C)	400-430 MHz (AS1) 450-485 MHz (D) 485-512 MHz (F)
Number of Channels	16 Channels	
Channel Spacing	15/30 kHz	12.5/25 kHz
PLL Steps	2.5/6.25 kHz	5/6.25 kHz
Power Supply Voltage	7.5 VDC ±20 %	
Battery Life (5-5-90 duty)		
w/FNB-V57(1100 mAh)	8.2 hrs. (9.9 hrs. w/saver) @5 W	7.1 hrs. (8.5 hrs. w/saver) @5 W
w/FNB-64(700 mAh)	5.2 hrs. (6.3 hrs. w/saver) @5 W	4.5 hrs. (5.4 hrs. w/saver) @5 W
Operating Temperature Range	-22° F to +140° F (-30° C to +60° C)	
Frequency Stability	±2.5 ppm	
Dimensions	2.3"(W)X4.7"(H)X1.2"(D) (58X120X31 mm)	
Weight (Approx)	0.81 lb. (365 g) w/FNB-64	

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

	VX-160V	VX-160U
Receiver Specifications Measurements made per EIA standard TIA/EIA-603		
Sensitivity		
EIA 12 dB SINAD	0.20 µV	0.25 V
20 dB Quieting	0.30 V	0.35 V
Adjacent Channel Selectivity	65 dB (25 kHz) / 60 dB (12.5 kHz)	
Intermodulation	65 dB	
Spurious and Image Rejection	65 dB	
Hum & Noise	45 dB	
Audio Output	500 mW @4 Ohms, 5 % THD	
Transmitter Specifications Measurements made per EIA standard TIA/EIA-603		
Power Output	5.0/1.0 W	
Modulation	16K0F3E, 11K0F3E	
Conducted Spurious Emissions	60 dB Below Carrier	
FM Hum & Noise	40 dB (25 kHz) / 35 dB (12.5 kHz)	
Audio Distortion(@1 kHz)	<5 %	

Accessories & Options

FNB-64 7.2 V 700 mAh Ni-Cd Battery Pack	FBA-25 Alkaline Battery Case(6 X AA)	VAC-6800 6-unit Multi Charger	VCM-1 Mobile Mounting Bracket for VAC-800	MH-37A48 Earpiece/Microphone	LCC-180 / S Leather Case (S for swivel belt clip)	CT-27 Radio to Radio Programming Cable
FNB-V57 7.2 V 1100 mAh Ni-Cd Battery Pack	VAC-800B/C Desktop Rapid Charger (B for 120 VAC/ C for 240 VAC)	NC-77B/C Wall Charger (B for 120 VAC/ C for 240 VAC)	MH-45e48 Speaker/Microphone (Noise Cancelling)	VC-25 VOX Headset	CE44 Programming Software	CT-42A Radio Programming Cable

This device has not been authorized as required by the rules of the Federal Communications Commission. This device is not, and may not be, offered for sale or lease, or sold or leased, until authorization is obtained.

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