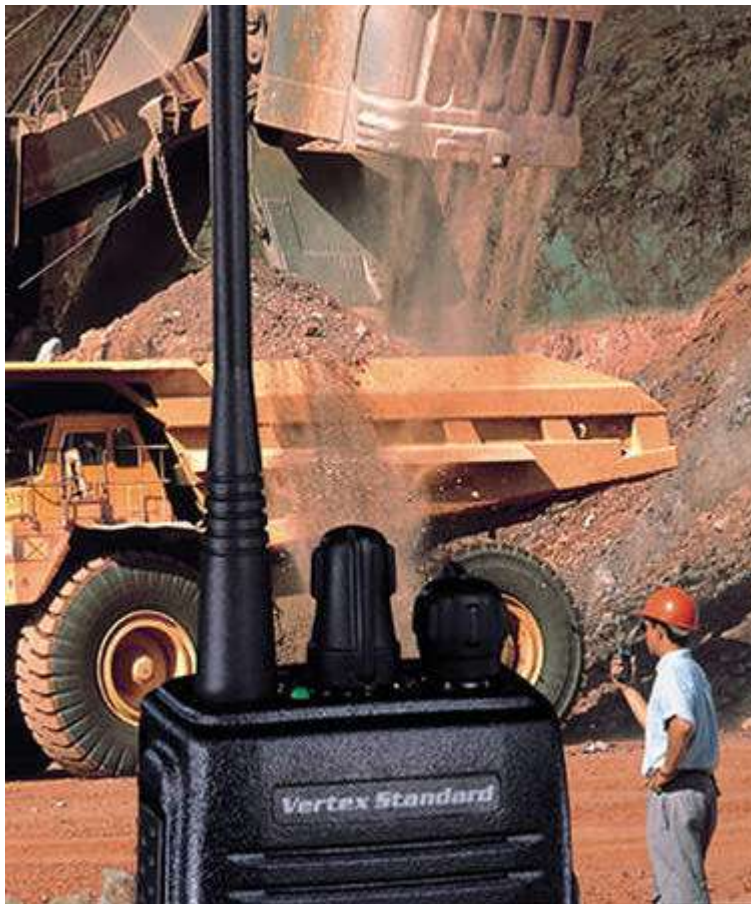


Vertex Standard

VX-160 VHF/UHF Portable Radios



Rugged, Durable Portables Ideal for Factory or Fleet!

- LIGHT WEIGHT AND COMPACT SIZE
- 16 CHANNEL CAPACITY
- 5 WATTS POWER OUTPUT
(Selectable to 1 Watt)
- MIL-STD 810 C/D/E
- RUGGED CONSTRUCTION
- LOUD, CLEAR AUDIO OUTPUT
- 12.5/25 kHz BANDWIDTH
PROGRAMMABLE BY CHANNEL
- CTCSS/DCS ENCODE + DECODE
- DTMF ANI
- DUAL 2-TONE DECODE
- MULTI-MODE SCAN
(incl. Dual Watch, Priority, Follow-Me)
- ARTS™
(Auto-Range Transponder System)
- BCLO, BTLO, AND TOT FUNCTIONS
- TX/RX BATTERY SAVER CIRCUIT
- PC PROGRAMMING
- RADIO-TO-RADIO CLONING



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

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

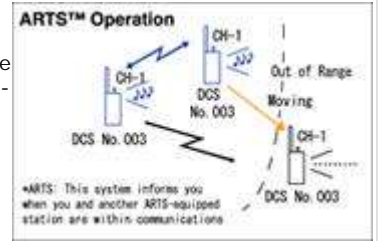
This built in feature allows you to decode up to two, 2-tone pairs per channel. These can be used for two individual pager calls, or one for Individual and one for Group call.

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.

SPECIFICATIONS

General Specifications	VX-160V	VX-160U
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 (1100mAh) w/FNB-64 (700mAh)	8.2 hrs. (9.9 hrs. w/saver) @5 W 5.2 hrs. (6.3 hrs. w/saver) @5 W	7.1 hrs. (8.5 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) x 4.7" (H) x 1.2" (D) (58 x 120 x 31 mm)	
Weight (Approx)	0.81 lb. (365 g) w/FNB-64	
Receiver Specifications	Measurements made per EIA standard TIA/EIA-603	
Sensitivity EIA 12 dB SINAD 20 dB Quieting	0.20 µV 0.30 µV	0.25 µV 0.35 µV
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 %

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

ACCESSORIES & OPTIONS

FNB-64 	FNB-V57 	FBA -25 	VAC-800B/C 
7.2 V 700 mAh Ni-Cd Battery Pack	7.2 V 1100 mAh Ni-Cd Battery Pack	Alkaline Battery Case (6 X AA)	Desktop Rapid Charger (B for 120 VAC/C for 240 VAC)
VAC-6800 	NC-77B/C 	VCM-1 	MH-45B4B 
6-Unit Multi Charger	Wall Charger (B for 120 VAC/C for 240 VAC)	Mobile Mounting Bracket for VAC-800	Speaker/Microphone (Noise Cancelling)
MH-37A4B 	VC-25 	LCC-160/S 	CE44 
Earpiece/Microphone	VOX Headset	Leather Case (S for swivel belt clip)	Programming Software
CT-27 	CT-42A 		
Radio to Radio Programming Cable	Radio Programming Cable		