

VX-160E SERIES

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
- AUTOMATIC NUMBER IDENTIFIER(ANI)
- 5 TONE ENCODE/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



CE

Actual Size

 **Vertex Standard**

and the display indicates "Out of Range" condition exists. The base station can then alert the field unit to

*ARTS: This system informs you when you and another ARTS-equipped station

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SUPER RUGGED CONSTRUCTION

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

CTCSS / DCS ENCODE + DECODE

High performance Encoder and Decoder circuits for both CTCSS and DCS are provided for controlled access to Tone or Code controlled systems. DCS is ideal for crowded and busy RF environments, providing far superior immunity from false opening of the squelch.

AUTOMATIC NUMBER IDENTIFIER (ANI)

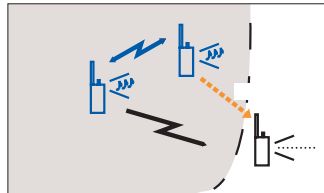
The VX-160E includes an Automatic Number Identifier circuit, which will respond to an incoming ANI burst for selective paging of an individual portable.

VERSATILE SCANNING FEATURES

The high-speed scanning capability of the VX-160E 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.

BCLO, BTLO, AND TOT

To facilitate efficient channel management, the VX-160E 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.



TX/RX BATTERY SAVER CIRCUIT

To maximize battery life, the VX-160E 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-160E radios for fleet use, the "Clone" feature allows copying of all channel and other configuration data from one VX-160E to another, using the optional CT-27 Cloning Cable.

500 mW AUDIO OUTPUT

Ideal for reception in noisy environments, the VX-160E'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		514.3/Procedure 1	514.4/Procedure 1 Cat. 10
Shock	516.2/Procedure 1	516.3/Procedure 1, 4	516.4/Procedure 1, 4

Specifications

	VX-160E(VHF)	VX-160E(UHF)
General Specifications		
Frequency Range	134-160 MHz (A) 146-174 MHz (C)	400-430 MHz (AS1) 440-470 MHz (CS) 450-490 MHz (D) 490-512 MHz (F)
Number of Channels	16 Channels	
Channel Spacing	12.5/25 kHz	
PLL Steps	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
Temperature Range	-30... C to +60... C(EIA) -25... C to +55... C(ETS)	
Frequency Stability	± 2.5 ppm(EIA) ± 1.5 kHz(ETS)	
Case size(WHD)	58 x120 x 31 mm w/FNB-64	
Weight (Approx)	365 grams w/FNB-64, antenna, belt clip	

	VX-160E(VHF)	VX-160E(UHF)
Receiver Specifications		
Sensitivity		
EIA 12 dB SINAD	0.20 µV	0.25 µV
20 dB Quieting	0.30 µV	0.35 µV
ETS 20 dB SINAD	0.60 µV (emf)	0.70 µV(emf)
Adjacent Channel Selectivity	65 dB (25 kHz) / 60 dB (12.5 kHz) EIA	70 dB (25 kHz) / 60 dB (12.5 kHz) ETS
Intermodulation	65 dB	
Spurious Rejection	70 dB (ETS)	
Hum & Noise	45 dB	
AF Output	500 mW @4 Ohm, 10 % THD	
Transmitter Specifications		
Power Output	5.0/1.0 W	
Modulation System	Direct FM 16K0F3E, 11K0F3E	
Conducted Spurious Emissions	60 dB Below Carrier(EIA) 0.25 µW(ETS)	
FM Noise	40 dB	
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-3 7A4 B 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/CU* Desktop Rapid Charger	 NC-77 BC/U* Overnight Desktop Charger	 MH-4 8A4 B Speaker/Microphone (Noise Cancelling)	 VC-25 VOX Headset	 CE44 Programming Software	 CT-42A Radio Programming Cable



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