VX-537

UHF Portable Radio

- **512 CHANNEL CAPACITY (MANAGED IN UP TO 20 MEMORY GROUPS)**
- **POWER OUTPUT: 5/2/1/0.25 W**
- **SIXTEEN POSITION ROTARY CHANNEL SELECTOR**
- **SINGLE / DUAL PRIORITY SCAN MODES**
- **ACTIVE NOISE CANCELING MICROPHONE**
- **ALPHANUMERIC DISPLAY IS SLANTED FORWARD FOR THE WIDEST VIEWING ANGLE**
- **MIL-SPEC SPEAKER/MIC AVAILABLE**
- **LOUD 700 mW AUDIO OUTPUT**
- **8 CHARACTER ALPHANUMERIC, INVERTIBLE LCD DISPLAY**
- **4 PROGRAMMABLE SOFT KEYS AND 3-POSITION TOGGLE SWITCH**
- **DTMF SIGNALING & DIALING FEATURES**
- **CTCSS/DCS MIXED ON A SINGLE CHANNEL**
- **CTCSS / DCS ENCODE + DECODE**
- **EMERGENCY FUNCTIONS**
- **ENCRYPTION (VOICE INVERSION, ROLLING CODE SCRAMBLER) OPTION AVAILABLE**
- **FEATURE-PACKED MDC1200® ENCODE/DECODE PLUG IN OPTION**
- **EMBEDDED MESSAGE**
- **OPTIONAL ALKALINE BATTERY CASE**
- **RADIO TO RADIO CLONE FEATURE**
- **PASSWORD PROTECTED RADIO FILES**
- **SINGLE OR MULTI-GROUP SCAN MODES**
- **PROGRAMMABLE MINIMUM VOLUME**
- **MIL-STD 810 C/D/E/F DIE-CAST CHASSIS**
- **INTRINSICALLY SAFE VERSION AVAILABLE**

Actual Size

Vertex Standard
We make a difference

512 CHANNEL CAPACITY
The enormous 512-channel memory system allows you to categorize channels into as many as 20 groups. This allows frequencies from different jurisdictions to be separated, for more efficient operation. And you may program separate Squelch settings on each channel, to account for different noise/interference conditions on different channels.

SELECTABLE POWER OUTPUT: UP TO 5 WATTS
Featuring a powerful 5 Watts of transmitter power, the VX-537 also provides three lower power levels, for occasions where the high power is not needed. Battery life is rated at better than 10 hours, even without using the Battery Saver feature!

SIXTEEN POSITION ROTARY CHANNEL SELECTOR
The high-reliability 16-position Channel Selector features a firm detent, to prevent inadvertent channel change, while retaining the ability for the user to change channels when wearing gloves.

SINGLE/DUAL PRIORITY SCAN MODES
Both Single and Dual Priority scanning modes are available. Dual Priority involves the assignment of a Priority Channel within a particular Memory Group, in addition to a "Super Priority" HOME channel that will over-ride any other Priority Channel.

ACTIVE NOISE CANCELING MICROPHONE
A unique feature of the VX-537 Series is the Active Noise Canceling Microphone system, which utilizes an active circuit to compare the operator's speech pattern to the ambient noise level; the noise is then suppressed, leading to greater intelligibility at the other end of the communications circuit.

WATER SHIELD MICROPHONE CONNECTION
For years of reliable operation under difficult weather conditions, the VX-537's Speaker/Microphone is carefully sealed to prevent the ingress of rain or splashes, you need to clarify which IP 54 standard is met.

MIL-SPEC SPEAKER-MIC AVAILABLE
For tough environments requiring an external Speaker-Microphone, the MH-50C7A Speaker-Mic option meets the demanding Shock and Vibration specifications of MIL-STD 810, and is the perfect complement to the VX-537 for Public Safety applications.

LOUD 700 mW AUDIO OUTPUT
Providing more available audio than most 1/2-Watt audio systems, the VX-537 provides better assurance of your ability to hear important incoming messages during "first response" operations.

8-CHARACTER INVERTIBLE ALPHANUMERIC DISPLAY
In public safety applications, quick channel recognition by the user is critical to mission success. The VX-537 provides an 8-character alphanumeric display, for easy channel name identification, with one-touch inversion of the display for use with a holster or belt clip.

PROGRAMMABLE SOFT KEYS AND 3-POSITION TOGGLE SWITCH
Customization of the VX-537, for your particular application's requirements, is easily accomplished. Two top-panel programmable keys may be assigned frequently-used command capability, as may an easy-to-use three-position toggle switch, also on the top panel.

OPTIONAL ANI FUNCTIONALITY
The optional VME-100, VMDE-200 board adds: Receive and display ID's, 250+ ID alias table, radio check, call alert, selective call, Emergency functions, remote enable/disable and mic monitor in the MDC1200®/ GE-Star® Mode.

●User Selectable Tones / Codes ●CTCSS / DCS Encode + Decode ●Emergency Functions ●Encryption (Voice Inversion, Rolling Code Scrambler) Option Available ●Embedded Message ●Optional Alkaline Battery Case ●Radio to Radio Clone Feature ●Talk Around ●BCLO, BTLO, and TOT Functions ●Programmable Minimum Volume ●MIL-STD 810 C/D/E&F, Die-Cast Chassis ●Intrinsically Safe Version Available

APPLICABLE MIL-STD

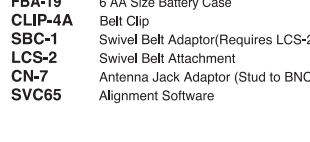| Standard	MIL 810C Methods/Procedures	MIL 810D Methods/Procedures	MIL 810E Methods/Procedures	MIL 810F Methods/Procedures
Low Pressure	500.1/Procedure I	500.2/Procedure I,II	500.3/Procedure I,II	500.4/Procedure I,II
High Temperature	501.1/Procedure I,II	501.2/Procedure I,II	501.3/Procedure I,II	501.4/Procedure I,II
Low Temperature	502.1/Procedure I	502.2/Procedure I,II	502.3/Procedure I,II	502.4/Procedure I,II
Temperature Shock	503.1/Procedure I	503.2/Procedure I	503.3/Procedure I	503.4/Procedure I,II
Solar Radiation	505.1/Procedure I		505.3/Procedure I,Cat. A1	505.4/Procedure II,Cat. A1
Rain	506.1/Procedure I,II	506.2/Procedure I,II	506.3/Procedure I,II	506.4/Procedure I,II
Humidity	507.1/Procedure II	507.2/Procedure II,III	507.3/Procedure II,III	507.4/Procedure I
Salt Fog	509.1/Procedure I	509.2/Procedure I	509.3/Procedure I	509.4/Procedure I
Dust	510.1/Procedure I			
Vibration	514.2/Cat. 8,10	514.3/Cat. 10	514.4/Cat. 10	514.5/Cat. 24
Shock	516.2/Procedure I	516.3/Procedure I	516.4/Procedure I	516.5/Procedure I

Specifications

General Specifications

Frequency Range	450-490 MHz (D)
Number of Channels	512 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)	11 hrs. (13.3 hrs. w/saver)
Operating Temperature Range	−22° F to +140° F
Frequency Stability	±2.5 ppm
Dimensions	2.3"(W)X5.9"(H)X1.5"(D) w/FNB-29A
Weight	19.3 oz (547 g) w/o ANT w/FNB-29A
Receiver Specifications	Measurements made per EIA standard TIA/EIA-603
Sensitivity 12 dB SINAD	0.25 µV
Adjacent Channel Selectivity	75 dB (25 kHz) / 68 dB (12.5 kHz)
Intermodulation	75 dB (25 kHz) / 65 dB (12.5 kHz)
Spurious and Image Rejection	75 dB
Audio Output	700 mW @16 Ohms, 5 % THD
Transmitter Specifications	Measurements made per EIA standard TIA/EIA-603
Power Output	5.0/2.0/1.0/0.25 W
Modulation	16K0F3E, 11K0F3E
Conducted Spurious Emissions	70 dB Below Carrier
Audio Distortion(@1 kHz)	<3 %

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

Intrinsically Safe Information
The Intrinsically Safe Version of VX-537, equipped with any of the following optional units, meets the requirements of ANSI/UL913 6th Edition for Class I, Division 1, Groups A-D; Class II, Groups E-G; and Class III for hazardous locations.
Battery pack: FNB-29AIS, FNB-29ALIS
•Substitution of components may impair intrinsic safety.

Accessories & Options

MH-50C7A Speaker/Microphone

FVP-25 Encryption/DTMF Pager Unit

F2D-8 2-Tone Decode Unit

VMDE-200 MDC1200®/GE-STAR® ANI Enc/Dec Unit

VME-100 MDC1200®/GE-STAR® ANI Encoder Unit

FNB-29A/AIS 7.2 V 1700 mAh Ni-Cd Battery Pack AIS:Intrinsically Safe Battery

VAC-6520 Rapid 6-unit Multi Charger

VAC-520B/C Desktop Rapid Charger (B for 120 VAC/ C for 240 VAC)

VCM-1 Mobile Mounting Bracket for VAC-520

CT-72 Radio to Radio Programming Cable

FBA-19	6 AA Size Battery Case
CLIP-4A	Belt Clip
SBC-1	Swivel Belt Adaptor(Requires LCS-2)
LCS-2	Swivel Belt Attachment
CN-7	Antenna Jack Adaptor (Stud to BNC)
SVC65	Alignment Software

Programming Cable	USB	FIF-10A + CT-105
	RS-232C	CT-29 + CT-71
Programming Software		CE65