

# VX-537

## UHF Portable Radios



- 512 CHANNEL CAPACITY
- 450 - 490 MHz
- FULL 5 WATT RF POWER OUTPUT
- 700 mW AUDIO OUTPUT (40% MORE THAN ALL OTHER MANUFACTURERS)
- 10 HOURS BATTERY LIFE W/O POWER SAVER
- 4 PROGRAMMABLE SOFTKEYS (2 TOP AND 2 SIDE MOUNTED)
- TOP MOUNTED 3-POSITION TOGGLE SWITCH
- 8 CHARACTER ALPHANUMERIC INVERTIBLE DISPLAY
- PASSWORD PROTECTED RADIO DATA
- WIDE / NARROW PER CHANNEL
- MIL-STD C/D/E/F
- INTRINSICALLY SAFE VERSIONS AVAILABLE



<b>Specifications</b>	
<b>General</b>	
Number of Channels:	512 channels
Frequency Range:	450 - 490 MHz
Channel Spacing:	12.5 / 25 kHz
Battery Voltage:	7.5 VDC $\pm$ 20 %
Battery Life w/FNB-V68LI (5-5-9 duty):	10 hours (13 hours. w/saver) @5.0W
Temperature Range:	-22 °F to +140 °F (-30 °C to +60 °C)
Frequency Stability:	better than $\pm$ 2.5 ppm
Case Size:	2.3" (w) x 6.0" (H) x 1.5" (D) (59 x 152 x 39 mm) w/FNB-29A 2.3" (w) x 6.4" (H) x 1.5" (D) (59 x 163 x 39 mm) w/FNB-29AL
Weight:	18.7 oz (530 g) w/FNB-29A 19.4 oz (550 g) w/FNB-29AL
<b>Receiver</b>	
Circuit Type:	Double-conversion Super-heterodyne
IFs:	44.25 MHz, 450 kHz
Sensitivity:	EIA12-dB SINAD: 0.25 $\mu$ V
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
Hum & Noise:	45 dB (25 kHz) / 40 dB (12.5 kHz)
AF Output:	0.7 W @ 16 Ohms, 5 % THD
<b>Transmitter</b>	
Power Output:	5.0 / 2.0 / 1.0 / 0.25 W
Modulation System:	Direct FM; 16K0F3E (25 kHz) / 11K0F3E (12.5 kHz)
Conducted Spurious Emissions:	70 dB Below Carrier
FM Hum & Noise:	45 dB (25 kHz) / 40 dB (12.5 kHz)
Audio Distortion (@ 1 kHz):	< 3 %
Specifications are subject to change without notice or obligation.	