

# VX-510L

## Low Band Portable Radio

### SPECIFICATION SHEET

### Reliable Low Band Communications

Designed for the most demanding applications with reliable performance. MIL-spec durable with a die-cast metal housing, the VX-510L can withstand the elements while keeping you connected.

### Large Channel Capacity for Group Communications

Get 32-channel capacity, divided into two 16-channel groups, for quick and convenient channel access that allows for future organizational growth.

### Stay Informed Efficiently

Built-in multiple scanning features ensure users stay informed of all that is happening. In addition to providing basic scan, the VX-510L also gives you Priority and Dual Watch scanning capability for greater efficiency.

### Convenient Invertible Alphanumeric Display

The VX-510L is one of the first Vertex Standard radios designed with a 4-character alphanumeric invertible display for easy viewing of the channel when the radio is clipped onto your belt.

### Additional Features

- Programmable toggle key
- CTCSS / DCS Encode and Decode
- BCLO, BTLO and TOT Functions
- Raised guards for soft keys
- Radio-to-radio cloning

### Option Board

- FVP-22: Voice inversion encryption



Top

5.9" (H) X 2.3" (W) X 1.5" (D)



### The Vertex Standard Difference

Our number one goal is achieving superior customer satisfaction by delivering products and services that exceed your expectations. Vertex Standard radios are built to last and are backed by an industry-leading 3 year warranty – another great reason to choose Vertex Standard. Ask your Dealer for more details.

## Accessories

- MH-45A2B: Speaker microphone with switch
- FNB-29A: 1700 mAh NiCd battery
- VAC-6520: 6-Unit multi rapid charger
- VCM-1: Vehicle mounting bracket for battery charger
- FTT-7: DTMF Keypad
- LCC-500: Leather Case
- LCS-2: Swivel belt attachment for leather case
- SBC-1: Swivel belt adaptor for LCS-2 attachment
- CLIP-4A: Belt clip
- CN-1A: Antenna jack test connector (Stud to BNC)

## VX-510L Specifications

	Band A	Band B
<b>General Specification</b>		
Frequency Range	29.7 - 38 MHz	38 - 50 MHz
Number of Channels	32 (16 channels x 2 groups)	
Power Supply Voltage	7.2V DC ± 20%	
Channel Spacing	20 kHz	
Battery Life (5-5-90 duty) 1700 mAh FNB-29A	13.3 hrs (11 hrs w/o saver)	
IP Rating	IP 54	
Operating Temperature Range	-22° F to +140° F (-30° C to +60° C)	
Frequency Stability	±10 ppm	
RF Input-Output Impedance	50 Ohms	
Dimension (H x W x D)	5.9 x 2.3 x 1.5 inches (149 x 59 x 39 mm) (w/FNB-29A)	
Weight (Approx.)	20.4 oz (578 g) (w/FNB-29A)	
<b>Receiver Specification: measured by TIA/EIA-603</b>		
Sensitivity 12dB SINAD	0.20 µV	
Adjacent Channel Selectivity	75 dB	
Intermodulation	70 dB	
Spurious and Image Rejection	80 dB	
Audio Output	500 mW @ 16 ohms 5% THD	
<b>Transmitter Specification: measured by TIA/EIA-603</b>		
Output Power	5 / 1 W	
Modulation	16K0F3E	
Conducted Spurious Emissions	60 dB below carrier	
FM Hum & Noise	50 dB	
Audio Distortion	< 2.5% @ 1kHz	

## Applicable MIL-STD

Standard	MIL 810C Methods/ Procedures	MIL 810D Methods/ Procedures	MIL 810E Methods/ Procedures
Low Pressure	-	500.2/Procedure I	500.3/Procedure I
High Temperature	501.1 / Procedure I,II	501.2/Procedure I, II	501.3/Procedure I, II
Low Temperature	-	502.2/Procedure I	502.3/Procedure I
Solar Radiation	-	505.2/Procedure I	505.3/Procedure I
Rain	506.1/Procedure II	506.2/Procedure II	506.3/Procedure II
Humidity	507.1/Procedure II	507.2/Procedure II	507.3/Procedure II
Salt Fog	-	509.2/Procedure I	509.3/Procedure I
Dust	510.1/Procedure I	510.2/Procedure I	510.3/Procedure I
Vibration	514.2/Procedure I,VIII	514.3/Procedure I,VIII	514.4/Procedure I,VIII
Shock	516.2/Procedure I,IV	516.3/Procedure I, IV	516.4/Procedure I, IV