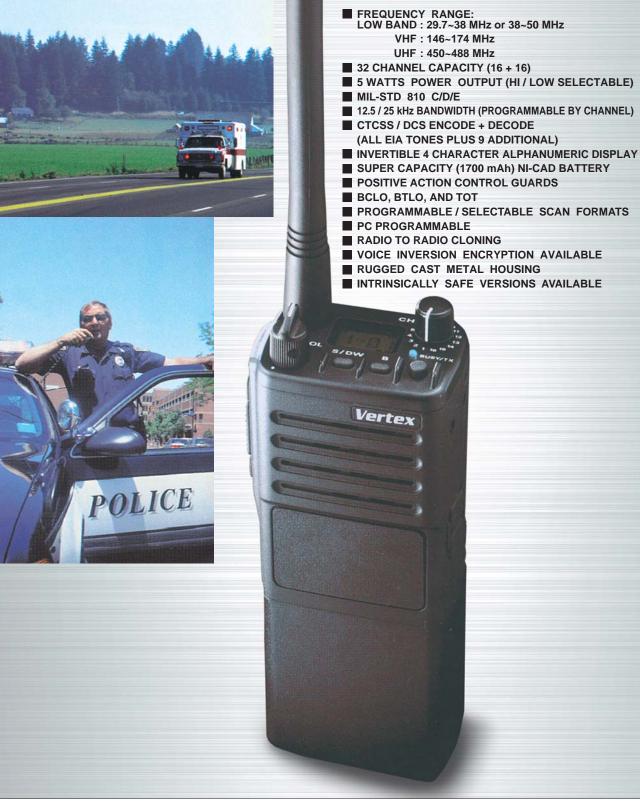
VX-510 SERIES

LOWBAND/VHF/UHF PORTABLE RADIO





VX-510 SERIES 32 Channel 5 WLowband / VHF/UHF Port abl e Radi os

Designed For Public Safety, By Public Safety, the VX-510 series portables are designed for the most demanding applications. Whether it's Public Safety, Business or Industrial, the VX-510 will meet the most rugged demands and provide reliable communcations day in and day out. From it's rugged cast metal frame, to it's super high capacity, long life 1700 mAh battery pack, the VX-510 sets the standard for rugged environment applications now.

Speci<u>fications</u>

| Specifications | | | |
|--|--|--------------------------|-----------------|
| General Specificatio | ns VX-510L | VX-510V | VX-510U |
| | VHF Lowband | VHF Highband | UHF Band |
| Number of Channels | 32 Channels (16+16) | | |
| Frequency Range | 29.7-38 MHz (A) | 146-174 MHz (C) | 450-488 MHz (D) |
| | 38-50 MHz (B) | | |
| Maximum Channel Spread | 8.3 MHz (A) | 28MHz | 20 MHz |
| | 12 MHz (B) | | |
| Channel Spacing | 20 kHz | 12.5 / 25 kHz | |
| Power Supply Voltage | 7.2 VDC | | |
| Current Consumption | | | |
| Standby (Saver On) | 19 mA | | |
| Standby (Saver Off) | 50 mA | | |
| Receive | 200 mA | | |
| Transmit (Lo) | 1000 mA | | |
| Transmit (Hi) | | 2000 mA | |
| Battery Life w / FNB-29A (5-5-90 duty) | 11 hrs. (13.3 hrs. w / saver) | | |
| Ambient Temperature Range | -22° F to + 140° F (-30° C to + 60° C) | | |
| Frequency Stability | ±10 ppm | ±2.5 ppm | ± 2.5 ppm |
| RF Input-Output Impedance | | 50 ohms | |
| Audio Output Impedance | 16 ohms | | |
| Dimensions | 5.9"X2.3"X1.5" (149X59X39 mm) | | |
| Weight | 20.1 oz. (570 g) w/FNB-29A | | |
| Receiver Specificati | ons Measurements made per EIA standard TIA / EIA-603 | | |
| Circuit Type | Double Conversion Superheterodyne | | |
| Sensitivity | | | |
| EIA 12 dB SINAD | 0.20 μV | 0.25 μV | 0.25 μV |
| 20 dB Quieting | 0.30 µV | 0.35 μV | 0.35 μV |
| Threshold Squelch | 0.18 μV | 0.20 μV | 0.20 μV |
| Adjacent Channel Selectivity | 75 dB | 65 / 75 dB | 65 / 75 dB |
| Intermodulation | 70 dB | 72 dB | 72 dB |
| Spurious and Image Rejection | 80 dB | 75 dB | 75 dB |
| Conducted Spurious Emissions | -57 dBm | | |
| Audio Response | +3 / -8 dB from the 6 dB / oct. De-emphasis curve | | |
| Audio Output | 0.5 W into 16 ohms w/ < 5 % THD | | |
| Hum and Noise | 50 dB | 44 / 50 dB | 40 / 45 dB |
| Transmitter Specifica | t i on Measurement r | nade per EIA standard | TIA / EIA-603 |
| Power Output | 5 W / 1W (Hi / Lo) | | |
| Modulation | 16K0F3E 16K0F3E / 11K0F3E | | |
| Maximum Deviation | ±5 kHz | ±5 kHz ±5 kHz / ±2.5 kHz | |
| Conducted Spurious Emisions | 60 dBc | | |
| | 50 dB 45 / 50 dB | | |
| Fm Hum and Noise | | | |
| Fm Hum and Noise Audio Response | | the 6 dB / oct Pre-em | |

Measurements per EIA standards unless noted above.

| Military Standards 810 C / D / E | | | |
|----------------------------------|---------------------------|-----------------------------|--|
| Method 500.2, Procedure 1 | Method 506.1, Procedure 2 | Method 510.2, Procedure 1 | |
| Method 500.3, Procedure 1 | Method 506.2, Procedure 2 | Method 510.3, Procedure 1 | |
| Method 501.1, Procedure 1,2 | Method 506.3, Procedure 2 | Method 514.2, Procedure 1,8 | |
| Method 501.2, Procedure 1,2 | Method 507.1, Procedure 2 | Method 514.3, Procedure 1,8 | |
| Method 501.3, Procedure 1,2 | Method 507.2, Procedure 2 | Method 514.4, Procedure 1,8 | |
| Method 502.2, Procedure 1 | Method 507.3, Procedure 2 | Method 516.2, Procedure 1,4 | |
| Method 502.3, Procedure 1 | Method 509.2, Procedure 1 | Method 516.3, Procedure 1,4 | |
| Method 505.2. Procedure 1 | Method 509.3. Procedure 1 | Method 516.4. Procedure 1.4 | |
| Method 505.3, Procedure 1 | Method 510.1, Procedure 1 | | |

Intrinsically Safe Approvals

The VX-510 Low Band, VHF and UHF models have been given an intrinsically safe rating for use in ANSI/UL-913-88 I,II, and III, Division 1, Groups A, B, C, D, E, F, and G hazardous locations; on Low Band, VHF and UHF models ordered with the Intrinsically Safe option.

Specifications subject to change without notice or obligation. Various accessories listed may not be available in some countries.



US Headquart ers

10900 Walker Street, Cypress, CA 90630, U.S.A. Phone 714/827-7600; Fax 714/827-8100 http://www.vxstdusa.com

Accessories & Options

| Rapid Desktop Charger (120 VAC) Rapid Desktop Charger (240 VAC) Rapid Vehicular Charger Antenna Jack Test Connector (Stud to BNC) Belt Clip Overnight Desktop Charger (120 VAC) Overnight Desktop Charger (240 VAC) Cordura Soft Case 6 AA Size Battery Case 7.2 V 1700 mAh Ni-Cd Battry Pack |
|--|
| 7.2 V 1700 mAh Ni-Cd Intrinsically Safe Battery |
| (for use with VX-510IS models only) |
| DTMF Keypad |
| DTMF keypad w/Decode Function |
| Two-Tone Sequential Decoder |
| (Tone Groups 1, 2, 3) |
| Two-Tone Sequential Decoder |
| (Tone Groups 4, 5, 6) |
| Voice Inversion Encryption |
| Leather Case |
| Belt Swivel Attachment for LCC-500 |
| Speaker Microphone |
| Rapid 6-Unit Multi Charger |
| Swivel Belt Adapter (Requires LCS-2) |
| Radio to Computer Programming Cable |
| w/Software |
| VX-Trunk II Trunking Portable Logic Board |
| Dual Knob Set for Volume and Squelch |
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