

# VX-1210

## HF Manpack Radio

[www.HiTechWireless.com](http://www.HiTechWireless.com)

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### SPECIFICATION SHEET

## Rugged, Portable HF Field Communications

The 20-Watt VX-1210 HF manpack radio is designed for field communications when contact at all times is a must. Simple to operate, it is a self-contained HF station for both voice and non-voice operating modes. The VX-1210 HF radio is designed for real-world portable operations.

### Light Weight, High-Capacity Lithium Ion Battery

The VX-1210 includes a 14.8 V Lithium-Ion battery with RX/TX battery saver option that lasts up to 24 hours in receive mode and up to 10 hours in standard SSB operation.

### Memory for Large Group Communications

Get 500 channels and alphanumeric labels for each channel for quick and easy call management.

### Easy Paging and Calling Options

Using the optional SEL-1200 unit, the VX-1210 supports paging, SELCALL and TELCALL options for fast and flexible communications. Options can be pre-programmed or manually entered for temporary calling requirements.

### Integral Noise Blanker

The VX-1210 has a built-in noise blanker capability to improve operation in high noise and areas with significant interference. The noise blanker enhances intelligibility in the presence of vehicular ignition noise and other sources of RF generated impulse noise.

### Automatic Antenna Tuning

With the optional ATU-1210 unit installed, simply press and hold the assigned toggle switch to initiate automatic antenna tuning for whip antennas.



VX-1210

193 (W) x 74 (H) x 274 (D) mm



OPTIONAL CSC-78 BACKPACK



### The Vertex Standard Difference

Our number one goal is achieving superior customer satisfaction by delivering products and services that exceed your expectations. Count on Vertex Standard for radios that are built to last and designed to provide more features for a better return on your investment. Ask your Dealer for more details.

### Additional Features

- Three programmable keys
- SSB/CW, AM and Data operating modes
- Battery status monitor
- Call alert / Hailer (multiple tones)
- CW Semi break-in
- TOT
- Kill system for unauthorized use (via SELCALL)
- Whip antenna (YHA-61)

### Accessories

- MH-50B7A: Speaker microphone
- FNB-66LI: 14.8V Lithium-ion battery pack (req. PA-26)
- CD-17: Rapid charger
- PA-26: AC Adapter
- ATU-1210: Internal antenna coupler
- SEL-1200: SELCALL unit
- YA-30: Dipole antenna (T2FD type)
- FHA-27: Folding whip antenna (requires GN-1210)
- GN-1210: Goose neck connector
- SVC-1200: Service Kit
- DSV-1200: D-sub 9-pin connector unit

### VX-1210 Specifications

#### General Specification

|                             |  |
|-----------------------------|--|
| Frequency Range             | RX: 0.5 – 30 MHz; TX: 1.6 – 30 MHz                                   |
| Number of Channels          | 500  |
| Emission Type               | A1A(CW); J3E(LSB/USB); H3E(AM); F1B(AFSK)                            |
| Power Requirements          | DC 14.8V Lithium-ion Battery   |
| Recharge Time               | 5 hours (typical)  |
| Channel Spacing             | 10 Hz  |
| Current Consumption         | RX: 500 mA (saver off), 100 mA (saver on)<br>TX: 5 A (20W), 3 A (5W) |
| Operating Temperature Range | -30° C to +60° C   |
| Antenna Impedance           | 50 Ohms (unbalanced)   |
| Dimension (W x H x D)       | 193 x 74 x 274 mm w/o knobs  |
| Weight (Approx.)            | 3.2 kg w/FNB-66LI  |

#### Receiver Specification

|                            |  |
|----------------------------|--|
| Circuit Type               | Double Conversion Super Heterodyne             |
| Intermediate Frequency     | 47.055 MHz & 10.7 MHz                          |
| Sensitivity                | 0.25 $\mu$ V (J3E / A1A, 10 dB S/N)            |
| Selectivity                | 2.4 kHz / 5.0 kHz (-6/-60 dB)                  |
| Clarifier Adjustment Range | $\pm$ 200 Hz (J3E/A1A/F1B), $\pm$ 400 Hz (H3E) |
| IF and Image Rejection     | 80 dB  |
| Audio Output               | At least 1.5W @ 4 Ohms @ 10% THD               |
| Audio Impedance            | 4 – 32 Ohms                                    |

#### Transmitter Specification

|                                |  |
|--------------------------------|--|
| Output Power                   | 20W / 5W (J3E/A1A/F1B), 10W / 2.5W (H3E)                           |
| Duty Cycle                     | 25% voice  |
| Modulation                     | Balanced Modulator (SSB: J3E)<br>Early Stage / Low Level (AM: H3E) |
| Carrier Suppression            | 55 dB  |
| Undesired Sideband Suppression | 55 dB @ 1.5 kHz tone   |
| Spurious Emission              | -56 dB or better   |
| Audio Response (J3E)           | 350 – 2650 Hz (-6 dB)  |
| 3rd-order IMD                  | -31 dB   |
| Microphone Impedance           | 2K Ohms, condenser type  |

### Applicable MIL-STD

| Standard  | MIL 810D<br>Methods/<br>Procedures | MIL 810E<br>Methods/<br>Procedures |
|-----------|------------------------------------|------------------------------------|
| Vibration | 514.3 / Procedure I Cat. 10        | 514.4 / Procedure I Cat. 10        |
| Shock     | 516.3 / Procedure I                | 516.4 / Procedure I                |

Specifications are subject to change without notice or obligation.

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