

# VX-2200 Series

## VHF/UHF Mobile Radios

### SPECIFICATION SHEET

### Wide Band Coverage and High-Power Performance

With 25 Watt power output for effective communications transmission, the VX-2200 Series provides reliability, extensive signaling features and enhanced channel capacity for maximum return on your investment. Die-cast aluminum construction helps dissipate heat and absorbs vibration for durability.

### Expanded Frequency Options for Greater Coverage

Designed to cover the full band in the VHF and upper range of the UHF bands, get wide band coverage in one radio 134-174MHz VHF and 400-470MHz, 450-520MHz.

### Broad Channel Capacity

128 channels for large group communications to get the job done.

### More Scanning Options

Compared to other mobile two-way radios in its class, the VX-2200 Series provides exceptional flexibility in scanning features that is designed to optimise operation for a wide variety of environments. In addition to basic scan, you also get Priority, Dual Watch, Follow-me, Follow-me Dual Watch and Talk Around scanning built-in.

### When Safety Counts

The VX-2200 Series comes standard with built-in Emergency alert for enhanced driver safety. A panic button can be triggered by the front panel button to alert the dispatcher when problems arise.



### 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.



Meets the following standards:  
AS/NZS4295, ISO9001 and  
ISO4001.

## Additional Features

- Four programmable keys
- 8-Character alphanumeric display
- RSSI signal strength indicator
- 2-Tone encode and decode
- 5-Tone signaling
- CTCSS / DCS Encode and Decode
- DTMF Paging
- Stun / kill / revive (5-tone)
- Remote listen
- Lone Worker
- D-Sub 15 Pin accessory connector
- Public address / horn alert
- Radio-to-radio cloning
- Voting
- MDC-1200®

## Accessories

- MH-67A8J: Standard microphone
- MH-75A8J: Keypad microphone (16 keys)
- MD-12A8J: Desktop microphone
- MLS-100: External speaker, 12W
- MLS-200: External speaker, 12W (indoor/outdoor use)
- FP-1030A: External power supply
- LF-1: DC Line Filter

## Option Boards

- FVP-25:Voice Inversion Encryption & DTMF Paging
- FVP-35: Rolling Code Encryption
- FVP-36:Voice Inversion Encryption only

## VX-2100/2200 Series Specifications

|   | VHF  | UHF   |
|---|--|---|
| <b>General Specification</b>                              |  |   |
| Frequency Range   | 134 – 174MHz   | 400 – 470MHz, 450 – 520MHz                      |
| Number of Channels and Groups                             | 128 and 8 Groups (VX-2200)<br>8 and 1 Groups (VX-2100)           |   |
| Power Supply Voltage                                      | 13.6V DC ± 15%   |   |
| Channel Spacing   | 12.5 / 20 / 25kHz  |   |
| PLL Steps   | 2.5 / 5 / 6.25kHz  | 5 / 6.25kHz                                     |
| Current Consumption                                       | TX: 6A (25W) RX: 2.5A, Standby: 200mA                            |   |
| Operating Temperature Range                               | -30°C to +60°C   |   |
| Frequency Stability                                       | Better than ±2.5ppm  |   |
| RF Input-Output Impedance                                 | 50 Ohms  |   |
| Dimension (W x H x D)                                     | 165mm x 45mm x 155mm   |   |
| Weight (Approx.)  | 1.3kg  |   |
| <b>Receiver Specification: measured by TIA/EIA-603</b>    |  |   |
| Sensitivity 12dB SINAD                                    | 0.25µV   |   |
| Adjacent Channel Selectivity                              | 75 / 65dB  | 73 / 65dB                                       |
| Intermodulation   | 73dB / 70dB  |   |
| Spurious and Image Rejection                              | 90dB   | 80dB  |
| Audio Output  | Internal: 4W @ 18 Ohms, 5% THD<br>External: 12W @ 4 Ohms, 5% THD |   |
| <b>Transmitter Specification: measured by TIA/EIA-603</b> |  |   |
| Output Power  | 50 / 25 / 10W (50W)<br>25 / 12.5 / 5 / 1W (25W)                  | 45 / 25 / 10W (50W)<br>25 / 12.5 / 5 / 1W (25W) |
| Modulation  | 16K0F3E, 11K0F3E   |   |
| Maximum Deviation   | ± 5.0kHz / ± 2.5kHz  |   |
| Audio Distortion  | < 3% @ 1kHz  |   |
| Spurious Emissions  | 70dB below carrier   |   |

## Applicable MIL-STD

| Standard            | MIL 810C Methods/ Procedures | MIL 810D Methods/ Procedures | MIL 810E Methods/ Procedures | MIL 810F Methods/ Procedures  |
|---------------------|------------------------------|------------------------------|------------------------------|-------------------------------|
| High Temperature    | 501.1/Procedure II           | -                            | -                            | -                             |
| Low Temperature     | 502.1/Procedure I            | -                            | -                            | -                             |
| Blowing Sand & Dust | -                            | -                            | 510.3/Procedure I            | -                             |
| Vibration           | 514.2/Procedure VIII, X      | 514.3/Procedure I Cat. 10    | 514.4/Procedure I Cat. 10    | 514.5/Procedure I Cat. 20, 24 |
| Shock               | 516.2/Procedure I, V         | 516.3/Procedure I, IV        | 516.4/Procedure I, IV        | 516.5/Procedure I, IV, VI     |

Specifications are subject to change without notice or obligation.

VERTEX STANDARD is registered in the US Patent & Trademark Office. All other product or service names are the property of their respective owners. © Vertex Standard Co. Ltd. 2010

BTB/MA534\_VX-2200\_05/2010

**Have a question about Vertex Standard radios?  
Contact your authorised Vertex Standard dealer today!**