

# VX-2100/2200 SERIES

## COMPACT, FULL-FEATURED PERFORMANCE



GOODBYE CROSSTALK



BROADEN YOUR REACH



COME IN LOUD AND CLEAR



KEEP YOUR TEAM SAFE



POWER THROUGH THE SHIFT

### MOBILE ANALOG RADIOS

For basic mobile communications, look to the VX-2100/2200 Series.

Choose from two mobile analog radios: the VX-2100 (without display) and VX-2200 (with display). They install easily in small spaces, and their die cast aluminum construction helps dissipate heat and absorb vibration for added durability. The channel capacity is 8 channels for easy operation on the VX-2100 or 128 channels for large group communications on the VX-2200. And optimize your operations with multiple scanning options.



VX-2100



VX-2200

#### GENERAL FEATURES

- Compact, Durable Construction
- Broad Channel Capacity:
  - 128 Channels (VX-2200)
  - 8 Channels (VX-2100)
- 6 Programmable Keys
- Display:
  - 1-Character Numeric (VX-2100)
  - 8-Character Alphanumeric (VX-2200)
- Safety Features:
  - Emergency Alert
  - Lone Worker Alert
- Scan Options:
  - Basic
  - Priority
  - Dual Watch
  - Follow-Me
  - Follow-Me Dual Watch
  - Talk Around

- Busy Channel Lock Out (BCLO)
- Busy Tone Lock Out (BTLO)
- Time Out Timer (TOT)
- Remote Listen
- Programmable Minimum Volume
- D-Sub 15 Pin Accessory Connector
- Public Address/Horn Alert
- Radio-to-Radio Cloning
- Auto Range Transponding System (ARTS™)

#### SIGNALING FEATURES

- CTCSS/DCS Encode and Decode
- 2-Tone Encode/Decode
- 5-Tone Signaling
- DTMF Paging
- DTMF Speed Dial
- Stun/Kill/Revive (5-Tone)
- RSSI Signal Strength Indicator



**GENERAL SPECIFICATIONS**

|                               | VHF  | UHF                          |
|-------------------------------|--|------------------------------|
| Frequency Range               | 134 - 174 MHz  | 400 - 470 MHz; 450 - 512 MHz |
| Number of Channels and Groups | 8 Channels/ 1 Group (VX-2100) 128 Channels/ 8 Groups (VX-2200) |                              |
| Power Supply Voltage          | 3.7 VDC (Nominal)  |                              |
| Channel Spacing               | 25/12.5 kHz  |                              |
| PLL Steps                     | 2.5/5/6.25 kHz   | 5/6.25 kHz                   |
| Current Consumption           | TX: 11 A (50 W, 45 W), 6 A (25 W) RX: 2.5 A, Standby: 200 mA   |                              |
| Operating Temperature Range   | -22°F to +140°F (-30°C to +60°C)                               |                              |
| Frequency Stability           | Better Than ±2.5 ppm   |                              |
| RF Input-Output Impedance     | 50 Ohms  |                              |
| Dimension (H x W x D)         | 1.8 x 6.5 x 6.1 Inches (45 x 165 x 155mm)                      |                              |
| Weight (Approx.)              | 2.87 lbs (1.3 kg)  |                              |

**RECEIVER SPECIFICATIONS**

measured by TIA/EIA 603

|                              |  |             |
|------------------------------|--|-------------|
| Sensitivity 12dB SINAD       | 0.25 µV  |             |
| Adjacent Channel Selectivity | 75 dB/65 dB  | 73 dB/65 dB |
| Intermodulation              | 73 dB/70 dB  |             |
| Spurious and Image Rejection | 90 dB  | 80 dB       |
| Audio Output                 | Internal: 4 W @ 18 Ohms, 5% THD<br>External: 12 W @ 4 Ohms, 5% THD |             |

**TRANSMITTER SPECIFICATIONS**

measured by TIA/EIA 603

|                             |   |   |
|-----------------------------|---|---|
| Output Power                | 50/25/10 W (50 W)<br>25/12.5/5/1 W (25 W) | 45/25/10 W (45 W)<br>25/12.5/5/1 W (25 W) |
| Modulation                  | 16K0F3E, 11K0F3E                          |   |
| Maximum Deviation           | ± 5.0 kHz/± 2.5 kHz                       |   |
| Audio Distortion            | < 3 % @1 kHz                              |   |
| Conducted Spurious Emission | 70 dB Below Carrier                       |   |

**APPLICABLE MIL-STD****Methods/Procedures**

| Standard              | MIL 810C       | MIL 810D            | MIL 810E            | MIL 810F               |
|-----------------------|----------------|---------------------|---------------------|------------------------|
| High Temperature      | 501.1 proc 2   | -                   | -                   | -                      |
| Low Temperature       | 502.1 proc 1   | -                   | -                   | -                      |
| Blowing Sand and Dust | -              | -                   | 510.3 proc 1        | -                      |
| Vibration             | 514.2 proc 8/X | 514.3 proc 1/Cat 10 | 514.4 proc 1/Cat 10 | 514.5 proc 1/Cat 20/24 |
| Shock                 | 516.2 proc 1/5 | 516.3 proc 1/4      | 516.4 proc 1/4      | 516.5 proc 1/4/6       |

**ACCESSORIES****Audio Accessories**

- MH-67A8J: Standard Microphone
- MH-75A8J: Keypad Microphone (16 Keys)
- MD-12A8J: Desktop Microphone
- MLS-100: External Speaker, 12 W
- MLS-200: Waterproof External Speaker, 12 W
- LF-1: DC Line Filter

**External Power Supply**

- SEC-1223: External Power Supply

