

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 External: 12 W @ 4 Ohms, 5% THD | |

| TRANSMITTER SPECIFICATIONS | measured by TIA/EIA 603 | |
|-----------------------------|---|---|
| Output Power | 50/25/10 W (50 W) 25/12.5/5/1 W (25 W) | 45/25/10 W (45 W) 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

| Standard | Methods/Procedures | | | |
|-----------------------|--------------------|---------------------|---------------------|------------------------|
| | 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

