

# 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