

# VX-2100/2200 SERIES

## COMPACT, FULL-FEATURED PERFORMANCE



GOODBYE CROSSTALK



BROADEN YOUR REACH



COME IN LOUD AND CLEAR



KEEP YOUR TEAM SAFE

### MOBILE ANALOGUE RADIOS

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

Choose from two mobile analogue radios: the VX-2100 (without display) and VX-2200 (with display). They install easily in small spaces, and their die-cast aluminium 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 optimise 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 Buttons
- 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™)

#### SIGNALLING FEATURES

- CTCSS/DCS Encode and Decode
- 2-Tone Encode/Decode
- 5-Tone Signalling
- 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
Number of Channels and Groups	8 Channels/ 1 Group (VX-2100) 128 Channels/ 8 Groups (VX-2200)	
Power Supply Voltage	10.8 - 15.6 V DC	
Channel Spacing	12.5/20/25 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	-30°C to +60°C (-22°F to +140°F)	
Frequency Stability	Better Than ±2.5 ppm	
RF Input-Output Impedance	50 Ohm	
Dimension (H x W x D)	45 x 165 x 155mm (1.8 x 6.5 x 6.1 Inches)	
Weight (Approx.)	1.3 kg (2.87 lbs)	

**RECEIVER SPECIFICATIONS**

measured by EN 300 086

Sensitivity	20 dB SINAD (W/N): -4 dB $\mu$ V / -2 dB $\mu$ V	
Adjacent Channel Selectivity	75 dB/68 dB	75 dB/65 dB
Intermodulation	68 dB	
Spurious and Image Rejection	80 dB	
Audio Output	Internal: 4 W @ 18 Ohms, 5% THD External: 12 W @ 4 Ohms, 5% THD	

**TRANSMITTER SPECIFICATIONS**

measured by EN 300 086

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 / 14K0F3E / 11K0F3E	
Maximum Deviation	± 5.0 kHz / ±4 kHz / ± 2.5 kHz	
Audio Distortion	< 3 % @1 kHz	
Conducted Spurious Emission	-36 dBm < 1 GHz / -30 dBm > 1 GHz	

**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



Motorola Solutions Ltd. Nova South, 160 Victoria Street, London, SW1E 5LB, UK. [www.motorolasolutions.com](http://www.motorolasolutions.com)

Availability is subject to individual country law and regulations. All specifications shown are typical unless otherwise stated and are subject to change without notice.

MOTOROLA, MOTO, MOTOROLA SOLUTIONS and the Stylized M Logo are trademarks or registered trademarks of Motorola Trademark Holdings, LLC and are used under license. All other trademarks are the property of their respective owners. © 2017 Motorola Solutions, Inc. All rights reserved. 11-2017