



GOODBYE
CROSSTALK



BROADEN
YOUR REACH



COME IN LOUD
AND CLEAR



KEEP YOUR
TEAM SAFE

VX-2100/2200 SERIES

COMPACT, FULL-FEATURED PERFORMANCE

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 μ V / -2 dB μ 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

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

