

# VX-260 SERIES

## COMPACT, DEDICATED PTT COMMUNICATION

### PORTABLE ANALOG RADIOS

For basic push-to-talk communication, look to the VX-260 Series.

Choose from two portable analog radios: the VX-261 (without display) and VX-264 (with display). With enhanced interoperability, you can choose from multiple signaling options, such as: MDC1200®, FleetSync®, DTMF, and 2-tone or 5-tone capabilities for seamless integration into a mixed fleet. Compatible with the universal battery system, you'll eliminate equipment clutter and confusion by standardizing on one charging base for the entire team.

#### GENERAL FEATURES

- Channel Capacity:
  - 16 Channels/ 1 Group (VX-261)
  - 128 Channels/ 8 Groups (VX-264)
- Programmable Keys:
  - 2 Programmable Keys (VX-261)
  - 6 Programmable Keys (VX-264)
- Display:
  - No Display (VX-261)
  - 8 Character Alphanumeric Display (VX-264)
- Safety Features:
  - Lone Worker Alert
  - Emergency Alert
- Operates in a Universal Battery System
- Multiple Scan Options
- Auto Range Transponding System (ARTS™)
- Voice Inversion Encryption (VX-264)
- Internal VOX (When Used with VOX Accessory)

#### SIGNALING FEATURES

- CTCSS/DCS Encode and Decode
- MDC-1200® ANI Encode
- FleetSync® ANI Encode
- 2-Tone Encode/Decode
- 5-Tone Encode/Decode
- DTMF ANI Encode



## GENERAL SPECIFICATIONS

|   | VX-261  | VX-264                   |
|---|---|--------------------------|
| Frequency Range                                   | VHF: D0:136-174 MHz/UHF: G6:403-470 MHz/UHF: G7:450-512 MHz   |                          |
| Dimensions (H x W x D) with FNB-V133LI-UNI (Inch) | 4.3 x 2.3 x 1.3 in (109.2 x 58.4 x 32.3 mm)   |                          |
| Weight  | 9.9 oz (281 g) (w/FNB-V133LI-UNI, Antenna, Belt Clip)<br>11.6 oz (330 g) (w/FNB-V134LI-UNI, Antenna, Belt Clip) |                          |
| Display   | No  | 8 Character Alphanumeric |
| Power Output                                      | 5/1W  |                          |
| Channel Spacing                                   | 25/20*/12.5* kHz  |                          |
| Audio Output                                      | 700 mW @ 16 Ohms (Internal)/500 mW @ 4 Ohms (External)  |                          |
| SP Size (φ)                                       | 36  |                          |
| Number of Channels                                | 16  | 128                      |
| Number of Groups                                  | 1   | 8                        |
| Programmable Buttons                              | 2   | 6                        |
| PC Programming                                    | CE150   |                          |
| Radio to Radio Cloning                            | Yes   |                          |
| Battery Life                                      | FNB-V133LI-UNI: 10.8 h (8.8 h w/o Saver)/FNB-V134LI-UNI: 19 h (15.5 h w/o Saver)                                |                          |
| IP Rating   | 55  |                          |
| Power Supply Voltage                              | 7.4 V DC±10 %   |                          |
| Operating Temperature Range                       | -22° F to +140° F (-30° C to +60° C)  |                          |
| Frequency Stability                               | ±2.5 ppm  |                          |
| RF Input-Output Impedance                         | 50 Ohms   |                          |

## RECEIVER SPECIFICATIONS

measured by TIA/EIA 603

|                              |  |
|------------------------------|--|
| Circuit Type                 | Double Conversion Superheterodyne                      |
| Sensitivity (12dB SINAD)     | 0.25 uV Typical  |
| Adjacent Channel Selectivity | 65/60 dB (25 kHz/12.5 kHz)                             |
| Frequency                    | VHF: 136-174 MHz/UHF: 403-470 MHz, 450-520 MHz         |
| Channel Spacing              | 25/20/12.5 kHz   |
| Intermodulation              | 65 dB  |
| Spurious Image Rejection     | 70 dB  |
| Hum and Noise                | 40 dB  |
| Audio Output (5% THD)        | 700 mW @ 16 Ohms (Internal)/500 mW @ 4 Ohms (External) |
| Audio Distortion             | < 5%   |
| Conducted Spurious           | -57 dB   |

## TRANSMITTER SPECIFICATIONS

measured by EN 300 086

|                              |                                 |
|------------------------------|---------------------------------|
| Output Power                 | 5/1 Watt                        |
| Modulation                   | 16K0F3E/14K0F3E (EU)/11K0F3E    |
| Maximum Deviation            | ±5.0 kHz/±4.0 kHz (EU)/±2.5 kHz |
| Conducted Spurious Emissions | 70 dB Below Carrier             |
| FM Hum and Noise             | 40 dB                           |
| Audio Distortion (@1 kHz)    | < 5 %                           |

## APPLICABLE MIL-STD

| Standard          | Methods/Procedures |                                     |                                     |                                    |                                    |
|-------------------|--------------------|-------------------------------------|-------------------------------------|------------------------------------|------------------------------------|
|                   | MIL 810C           | MIL 810D                            | MIL 810E                            | MIL 810F                           | MIL 810G                           |
| Low Pressure      | 500.1 proc 1       | 500.2 proc 2                        | 500.3 proc 2                        | 500.4 proc 1/2                     | 500.5 proc 1/2                     |
| High Temperature  | 501.1 proc 1/2     | 501.2 proc 1/A1<br>proc 2/A1        | 501.3 proc 1/A1<br>proc 2/A1        | 501.4 proc 1/HOT<br>proc 2/HOT     | 501.5 proc 1/A1<br>proc 2/A2       |
| Low Temperature   | 502.1 proc 1       | 502.2 proc 1/Cat3<br>proc 2/Cat 1   | 502.3 proc 1/Cat 3<br>proc 2/Cat 1  | 502.4 proc 1/Cat 3<br>proc 2/Cat 1 | 502.5 proc 1/Cat 3<br>proc 2/Cat 1 |
| Temperature Shock | 503.1 proc 1       | 503.2 proc 1/A1 Cat 3               | 503.3 proc 1/A1 Cat 3               | 503.4 proc 1                       | 502.5 proc 1/C                     |
| Solar Radiation   | 505.1 proc 2       | 505.2 proc 1                        | 505.3 proc 1                        | 505.4 proc 1                       | 502.5 proc 1/A1                    |
| Rain              | 506.1 proc 1/2     | 506.2 proc 1/2                      | 506.3 proc 1/2                      | 506.4 proc 1/3                     | 506.5 proc 1/3                     |
| Humidity          | 507.1 proc 2       | 507.2 proc 2                        | 507.3 proc 2                        | 507.4                              | 507.5 proc 2/Agg                   |
| Salt Spray/Fog    | 509.1 proc 1       | 509.2 proc 1                        | 509.3 proc 1                        | 509.4                              | 509.5                              |
| Blowing Dust      | 510.1 proc 1       | 510.2 proc 1                        | 510.3 proc 1                        | 510.4 proc 1                       | 510.5 proc 1                       |
| Blowing Sand      | -                  | 510.2 proc 2                        | 510.3 proc 2                        | 510.4 proc 2                       | 510.5 proc 2                       |
| Vibration         | 514.2 proc 8/FW    | 514.3 proc 1/Cat 10<br>proc 2/Cat 3 | 514.4 proc 1/Cat 10<br>proc 2/Cat 3 | 514.5 proc 1/Cat 24                | 514.6 proc 1/Cat 24                |
| Shock             | 516.2 proc 1/2/3/5 | 516.3 proc 1/4/6                    | 516.4 proc 1/4/6                    | 516.5 proc 1/4/6                   | 516.6 proc 1/4/6                   |



## ACCESSORIES

### Antennas

- ATU-6A: 400-430 MHz 6.5" (16.51 cm)
- ATU-6B: 420-450 MHz 6.1" (15.49 cm)
- ATU-6C: 440-470 MHz 6.1" (15.49 cm)
- ATU-6D: 450-485 MHz 6" (15.24 cm)
- ATU-6DS: 450-485 MHz 3.5" (8.89 cm)
- ATU-6F: 490-512 MHz 5.35" (13.58 cm)
- ATV-6B: 150-163 MHz 3.5" (8.89 cm)
- ATV-6C: 161-174 MHz 3.5" (8.89 cm)
- ATV-6XL: Untuned VHF 7" (17.78 cm)
- ATV-8A: 134-150 MHz 6" (15.24 cm)
- ATV-8B: 150-163 MHz 6" (15.24 cm)
- ATV-8C: 162-174 MHz 6" (15.24 cm)

### Battery

- FNB-V133LI-UNI: 1380 mAh Li-Ion
- FNB-V134LI-UNI: 2300 mAh Li-Ion

### Carry Solutions

- LCC-261: Leather Case, Belt Loop (FNB-V133LI)
- LCC-261H: Leather Case, Belt Loop (FNB-V134LI)
- LCC-261S: Leather Case, Swivel Belt Loop (FNB-V133LI)
- LCC-261SH: Leather Case, Swivel Belt Loop (FNB-V134LI)
- LCC-264: Leather Case, Belt Loop (FNB-V133LI)
- LCC-264H: Leather Case, Belt Loop (FNB-V134LI)
- LCC-264S: Leather Case, Swivel Belt Loop (FNB-V133LI)
- LCC-264SH: Leather Case, Swivel Belt Loop (FNB-V134LI)
- CLIP-20: Belt Clip

### Chargers

- CD-58: Charger Base
- PA-55: AC Adaptor
- VAC-6058: MUC Charger (Multiple Plugs for Both Regions)
- VCM-5: Vehicular Charger Mounting Adaptor

### Audio Accessories

- MH-360S: Compact Speaker Microphone with 3.5mm

### Audio Jack

- MH-450S: Speaker Microphone with 3.5mm Audio Jack
- MH-45B4B: Noise Cancelling Speaker Microphone with 3.5mm Audio Jack
- MH-66A4B IP57: Submersible Speaker Microphone
- MH-37A4B-1: Earpiece Microphone
- VH-150A: VOX Capable Lightweight Headset, Behind-the-Head
- VH-150B: VOX Capable Lightweight Headset, Over-the-Head
- MH-100: Rx Only Earpiece, 3.5mm for Use with MH-450S
- MH-101A4B: Single Wire Surveillance Kit
- MH-102A4B: 2-Wire Surveillance Kit
- MH-103A4B: 3-Wire Surveillance Kit
- MH-201A4B: Heavy Duty Headset, OTH, IS



VX-261

VX-264

Motorola Solutions, Inc. 500 West Monroe Street, Chicago, IL 60661 U.S.A. [www.motorolasolutions.com/vx260](http://www.motorolasolutions.com/vx260)

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. © 2018 Motorola Solutions, Inc. All rights reserved. 03-2018