

# EVX-261

## MIGRATE TO DIGITAL

-  GOODBYE CROSSTALK
-  BROADEN YOUR REACH
-  COME IN LOUD AND CLEAR
-  KEEP YOUR TEAM SAFE
-  POWER THROUGH THE SHIFT

### PORTABLE DIGITAL RADIOS

Make the move to digital easily and affordably.

The EVX-261 operates in both analog and digital modes, so it's ideal for use with mixed fleets. With expanded interoperability, you can choose from multiple signaling options, including MDC1200®, DTMF, and 2-tone or 5-tone capabilities, along with voice inversion encryption. And in digital mode, enjoy noise cancellation for crisp audio and clear conversations. 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
- 2 Programmable Keys
- Safety Features:
  - Lone Worker Alert
  - Emergency Alert
- Operates in a Universal Battery System
- Multiple Scan Options
- Internal VOX (When Used with VOX Accessory)

#### ANALOG MODE FEATURES

- Auto Range Transponding System (ARTS™)

#### SIGNALING FEATURES

- MDC-1200® ANI Encode
- FleetSync® ANI Encode
- CTCSS/DCS Encode and Decode
- 2-Tone Encode/Decode
- 5-Tone Encode/Decode
- Remote Stun/Kill/Revive (5-Tone)

#### DIGITAL MODE FEATURES

- Direct Mode
- Transmit Interrupt (Decode Only)
- All Call/Group Call/Individual Call
- Basic Privacy



## GENERAL SPECIFICATIONS

	VHF	UHF
Frequency Range	D0: 136-174 MHz	G6: 403-470 MHz G7: 450-512 MHz
Dimensions (H x W x D)	4.3 x 2.3 x 1.3 in (109.2 x 58.4 x 32.3 mm) with FNB-V133LI-UNI	
Weight Approx.	9.9 oz (281 g) (w/FNB-V133LI-UNI, Antenna, Belt Clip) 11.6 oz (330 g) (w/FNB-V134LI-UNI, Antenna, Belt Clip)	
Display	No	
Channel Spacing	25*/12.5 kHz	
SP Size	36	
Number of Channels	16	
Programmable Buttons	2	
SP Size (Φ)	36	
Battery Life (5-5-90 Duty with Battery Saver)	FNB-V133LI: 9.8 h (D)/8.1 h (A) FNB-V134LI: 17.0 h (D)/14.0 h (A)	FNB-V133LI: 9.3 h (D)/8.0 h (A) FNB-V134LI: 16.1 h (D)/13.6 h (A)
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	±1.5 ppm	
RF Input-Output Impedance	50 Ohms	

## RECEIVER SPECIFICATIONS

measured by TIA/EIA 603

Circuit Type	Direct Conversion
Sensitivity Analog 12 dB SINAD:	0.25 uV/Digital 1% BER: 0.28 uV
Adjacent Channel Selectivity	TIA603: 70/60 dB (25 kHz/12.5 kHz), TIA603D: 70/45 dB (25 kHz/12.5 kHz)
Channel Spacing	25/12.5 kHz
Intermodulation	70 dB
Spurious Image Rejection	70 dB
Hum and Noise	45/40 dB (25 kHz/12.5 kHz)
Audio Output (5% THD)	700 mW @ 16 Ohms (Internal)/500 mW @ 4 Ohms (External)
Audio Distortion	< 5%
Conducted Spurious Emission	-57 dBm

## TRANSMITTER SPECIFICATIONS

measured by TIA/EIA 603

Output Power	5/1 W
Modulation Limiting	±5.0 kHz (25 kHz)/±2.5 kHz (12.5 kHz)
Conducted Spurious Emission	-36 dB (≤ 1 GHz), -30 dB (> 1 GHz)
FM Hum and Noise	45/40 dB (25 kHz/12.5 kHz)
Audio Distortion (@1 kHz)	< 5%
Analog FM Modulation	16K0F3E (25 kHz)/11K0F3E (12.5 kHz)
4FSK Digital Modulation	12.5 kHz Data: 7K60F1D and 7K60FXD/12.5 kHz Voice: 7K60F1E and 7K60FXE 12.5 kHz Data and Voice: 7K60F1W
Digital Vocoder Type	AMBE +2™
Digital Protocol	ETSI TS102 361-1, -2, -3

## 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 proc 2/A1	501.3 proc 1/A1 proc 2/A1	501.4 proc 1/HOT proc 2/HOT	501.5 proc 1/A1 proc 2/A2
Low Temperature	502.1 proc 1	502.2 proc 1/Cat3 proc 2/Cat 1	502.3 proc 1/Cat 3 proc 2/Cat 1	502.4 proc 1/Cat 3 proc 2/Cat 1	502.5 proc 1/Cat 3 proc 2/Cat 1 proc 3/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/F W	514.3 proc 1/Cat 10 proc 2/Cat 3	514.4 proc 1/Cat 10 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 UHF Antenna 6.5" (16.51 cm)
- ATU-6B: 420-450 MHz UHF Antenna 6.1" (15.49 cm)
- ATU-6C: 440-470 MHz UHF Antenna 6.1" (15.49 cm)
- ATU-6D: 450-485 MHz UHF Antenna 6" (15.24 cm)
- ATU-6DS: 450-485 MHz UHF Antenna 3.5" (8.89 cm)
- ATU-6F: 485-520 MHz UHF Antenna 5.35" (13.58 cm)
- ATV-8A: 134-151 MHz VHF Antenna 6" (15.24 cm)
- ATV-8B: 150-163 MHz VHF Antenna 6" (15.24 cm)
- ATV-8C: 161-174 MHz VHF Antenna 6" (15.24 cm)
- ATV-6XL: Untuned VHF Antenna 7" (17.78 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)
- CLIP-20: Belt Clip

### Chargers

- CD-58: Charger Base
- PA-55: AC Adapter
- 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
- MH-66A4B: Noise Cancelling Speaker Microphone with 3.5mm Audio Jack
- 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
- MH-101A4B: Single Wire Surveillance Kit
- MH-102A4B: 2-Wire Surveillance Kit
- MH-103A4B: 3-Wire Surveillance Kit
- MH-201A4B: Heavy Duty Headset



[www.motorolasolutions.com/evx261](http://www.motorolasolutions.com/evx261)

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