

# VX-456

## COMMERCIAL PORTABLE RADIO.

### DUAL MODE CB AND UHF

### Connect without compromise

The VX-456 is a dual mode CB and UHF Commercial portable radio. For durable, on-the-job responsiveness, the VX-456 maximises worker uptime with flexible communication options, expanded safety applications and convenient built-in features designed for both heavy duty and recreational use.

### VX-456 Specifications

#### KEY FEATURES

- 80 channels in UHF CB mode
- 512 channels / 32 groups in commercial mode
- 16 additional user programmable RX channels
- 5 watts
- 7 programmable keys
- 8 character alphanumeric display
- IP Rating: 67
- 700 mW audio output
- Whisper mode
- Componder
- Clear voice
- Voice inversion encryption (on/off activation)
- Minimum volume control
- Meets MIL-STD 810 specs: C, D, E, F, G
- RX/TX battery powersave
- Auto-Range Transpond System II (ARTS II™)
- Channel announce
- Voice activation (VOX)
- PC Programming
- UHF high 450-520 MHz

#### SCANNING

- Scan
- Priority
- Dual Watch
- Follow Me
- Talk Around
- Scan Set
- 32 Scan List

#### SIGNALLING

- CTCSS/DCS Encode/Decode
- Dual 2-Tone Decode
- 2-Tone Encode/Decode
- 5-Tone Encode/Decode
- Remote Stun/Kill/Revive (5-tone)
- Emergency
- Lone Worker
- DTMF ANI
- DTMF Speed Dial
- DTMF Paging
- MDC-1200® Encode/Decode

#### STANDARD KIT IN BOX

The VX-456 comes complete with: battery (2300mAh), antenna, charger base, power adaptor, belt clip. A complete list of additional accessories are featured below.



BROADEN  
YOUR REACH



COME IN LOUD  
AND CLEAR



KEEP YOUR  
TEAM SAFE



POWER THROUGH  
THE SHIFT



## GENERAL SPECIFICATIONS

	UHF
Frequency Range	UHF CB 476.425 - 477.4125 MHz UHF 450 - 520 MHz
Number of Channels and Groups	80CB 512/32 Groups 16RX Channels
Power Supply Voltage	7.5 V DC $\pm$ 20%
Channel Spacing	12.5/20*/25* kHz
Channel Spacing	5/6.25 kHz
Battery Life (5-5-90 Duty) 2300 mAh FNB-V134LI-UNI 1380 mAh FNB-V133LI-UNI	18 hours (W/Saver)/15.5 Hours 11 hours (W/Saver)/10 Hours
IP Rating	67
Operating Temperature Range	-22°F to +140°F (-30°C to +60°C)
Frequency Stability	$\pm$ 2.5 ppm
RF Input-Output Impedance	50 Ohms
Dimension (H x W x D)	109 x 58.5 x 43 mm FNB-V134LI-UNI 109 x 58.5 x 35 mm FNB-V133LI-UNI
Weight (Approx.) with Antenna, Belt Clip	340 g; 356 g FNB-V134LI-UNI, ANT, Belt Clip

## RECEIVER SPECIFICATIONS measured by TIA/EIA 603

Sensitivity 12dB SINAD	0.32 $\mu$ V Typical
Adjacent Channel Selectivity	70 dB/65 dB
Hum and Noise	45 dB/40 dB
Intermodulation	70 dB/65 dB
Spurious and Image Rejection	70 dB
Audio Output	700 mW (Internal @ 16 Ohms, 5% THD) 500 mW (External @ 4 Ohms, 5% THD)

## TRANSMITTER SPECIFICATIONS measured by TIA/EIA 603

Output Power	5/2.5/1/0.25 Watt (Selectable by Channel)
Modulation	16K0F3E, 11K0F3E
Maximum Deviation	$\pm$ 5.0 kHz/ $\pm$ 2.5 kHz
Conducted Spurious Emissions	70 dB Below Carrier
FM Hum and Noise	45 dB/40 dB
Audio Distortion	< 3 % @1 kHz

## 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 1/2	500.3 proc 1/2	500.4 proc 1/2	500.5 proc 1/2
High Temperature	501.1 proc 1/2	501.2 proc 1/2	501.3 proc 1/2	501.4 proc 1/2	501.5 proc 1/2
Low Temperature	502.1 proc 1	502.2 proc 1/2	502.3 proc 1/2	502.4 proc 1/2	502.5 proc 1/2
Temperature Shock	503.1 proc 1	503.2 proc 1	503.3 proc 1	503.4 proc 1	-
Solar Radiation	505.1 proc 1	505.2 proc 2/Cat A1	505.3 proc 2/Cat A1	505.4 proc 1/2/Cat 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 1/2	507.2 proc 2/3	507.3 proc 2/3	507.4 proc 3	507.5 proc 1/3
Salt Fog	509.1 proc 1	509.2 proc 1	509.3 proc 1	509.4 proc 1	509.5 proc 1
Dust	510.1 proc 1	510.2 proc 1	510.3 proc 1	510.4 proc 1/3	510.5 proc 1
Vibration	514.2 proc 8/10	514.3 Cat 10	514.4 Cat 10	514.5 Cat 20/24	514.6 Cat 20/24
Shock	516.2 proc 1/3/5	516.3 proc 1/4	516.4 proc 1/4	516.5 proc 1/4	516.6 proc 1/4

## ACCESSORIES

### Antennas

- ATU-16F: 470-520 MHz 124.6MM (included)

### Batteries

- FNB -V134 Li: 2300 mAh Li-Ion (high capacity battery) UNI (included)
- FNB -V133 Li: 1380 mAh Li-Ion (slim line battery) UNI optional accessory

### Chargers

- VCM-5 in vehicle charger to suit CD-58
- CD-58: Single unit charger base (included)
- PA-55: Power Supply 16V, @ 1Amp to suit CD-58 (included)
- VAC-6058: 6 Unit Multi Radio Charger VAC-Uni

### Headset and Earpiece Microphones

- VH-215S: Single muff padded headset
- MH-100: 3.5MM Earpiece for RSM Audio Jack
- MH-101A4B: 1 Wire Surveillance Kit
- MH-102A4B: 2 Wire Surveillance Kit
- MH-103A4B: 3 Wire Surveillance Kit
- VH-150A IS: Lightweight Behind-the-Head VOX Headset
- VH-150B IS: Lightweight Over-the-Head VOX Headset
- MH-201A4B: Heavy Duty Headset, OTH, IS
- MH-37A4B: Earpiece Microphone

### Speaker Microphones

- MH-360S: Compact speaker
- MH-450S: Standard speaker
- MH-45B4B: Noise cancelling speaker

### Belt Clips and Leather Cases

- CLIP-20: Belt clip (included)

