

# VX-350 Series

## VHF/UHF Portable Radios

### SPECIFICATION SHEET – NORTH AMERICA

#### All-Purpose Radio With A Wide Range Of Built-In Capabilities

The radio may be compact, but performance is not. The feature-packed VX-350 Series supports how you need to communicate giving you more – for less in cost.

#### Lithium Ion Battery Power

Designed to provide up to 17 hours of battery life. Activate/deactivate the battery saver function for additional battery life management.

#### When Safety Counts

As with all Vertex Standard portable radios, the VX-350 Series includes both **Emergency** and **Lone Worker** alerts to help monitor user safety.

**Emergency** alert can be programmed to instantly notify help with a press of a button.

**Lone Worker** is a built-in timer that requires the user to reset at a predetermined interval. If not reset, the radio automatically switches to Emergency mode to alert help. An ideal solution for supervisors to monitor the safety status of radio users working alone.

#### Prevent Unauthorized Use

If lost or stolen, quickly disable the VX-350 Series remotely by sending a Stun command for temporary disabling or Kill command to permanently disable the radio (requires re-programming before using again).

#### MDC-1200® Compatible

Add the VME-100 option board to use MDC-1200® signaling.

#### Exclusive Auto-Range Transpond System – ARTS™

Always know your connection status. Only Vertex Standard radios are designed to inform you when you and another ARTS™-equipped radio are within communication range. If out of range, your radio senses no signal has been received and beeps to alert you. A great solution to keep your workers coordinated.



VX-351

VX-354



#### The Vertex Standard Difference

Our number one goal is achieving superior customer satisfaction by delivering products and services that exceed your expectations. Vertex Standard radios are built to last and are backed by an industry-leading 3 year warranty.

# VX-350 Series

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www.vertexstandard.com/lmr

## Additional Features

- ▶ 16 channel capacity
- ▶ Six programmable keys (VX-354)
- ▶ Two programmable keys (VX-351)
- ▶ 8-Character alphanumeric display (VX-354)
- ▶ RX/TX Battery power save
- ▶ DTMF ANI
- ▶ Lone Worker
- ▶ 2-Tone Encode and Decode
- ▶ CTCSS / DCS Encode and Decode
- ▶ 5-Tone Signaling
- ▶ Whisper
- ▶ Priority scan
- ▶ Dual Watch scan
- ▶ Follow-me scan
- ▶ Talk Around scan
- ▶ Radio-to-radio cloning

## Accessories

- ▶ MH-360S: Compact speaker microphone
- ▶ MH-450S: Speaker microphone
- ▶ MH-45B4B: Noise canceling speaker microphone
- ▶ VH-115S: Behind-the-head headset with boom mic
- ▶ VH-215S: Over-the-head single muff headset
- ▶ MH-37A4B: Earpiece microphone
- ▶ VH-130S: 2-Wire earpiece with palm mic and PTT switch
- ▶ FNB-V130LI-UNI: 2300 mAh Li-Ion battery
- ▶ FNB-V96LI: 2300 mAh Li-Ion battery
- ▶ VAC-UNI: Single unit charger for UNI batteries
- ▶ VAC-6058: Multi unit charger for UNI batteries
- ▶ VAC-300: Desktop rapid charger (non-UNI)
- ▶ DCM-1: Desktop charger mounting adapter for VAC-300
- ▶ VCM-2: Vehicle mounting adapter for VAC-300
- ▶ VAC-6300: 6-Unit multi rapid charger (non-UNI)
- ▶ LCC-351/S: Leather case with swivel belt clip (VX-351)
- ▶ LCC-354/S: Leather case with swivel belt clip (VX-354)
- ▶ CLIP-18: Belt clip
- ▶ CLIP-17E: Swivel belt clip

## Option Boards

- ▶ FVP-25: Voice Encryption and DTMF Paging
- ▶ FVP-35: Rolling Code Encryption
- ▶ FVP-36: Voice Inversion Encryption
- ▶ VME-100: MDC-1200®/GE-STAR® ANI Encode

## VX-350 Series Specifications

	VHF	UHF
<b>General Specification</b>		
Frequency Range	134 - 174 MHz	380 – 470 MHz; 450 – 512 MHz
Number of Channels	16	
Power Supply Voltage	7.4V DC ± 20%	
Channel Spacing	12.5 / 20* / 25* kHz	
PLL Steps	1.25 / 2.5 / 5 / 6.25 kHz	5 / 6.25 kHz
Battery Life (5-5-90 duty) 2300 mAh FNB-V130LI-UNI 2300 mAh FNB-V96LI	17.8 hours (w/saver) / 14.9 hours	17.2 hours (w/saver) / 14.3 hours
IP Rating	IP 55	
Operating Temperature Range	-22°F to +140°F (-30°C to +60°C)	
Frequency Stability	±2.5 ppm	
RF Input-Output Impedance	50 Ohms	
Dimension (H x W x D) VX-351 Model	4.1 x 2.3 x 1.3 inches (105 x 58 x 33 mm) both battery options	
Weight (Approx.) VX-351; VX-354	11.3 oz; 11.6 oz (321 g; 329 g) FNB-V130LI-UNI 11.3 oz; 11.5 oz (321 g; 327 g) FNB-V96LI	

### Receiver Specification: measured by TIA/EIA-603

Sensitivity 12dB SINAD	0.25 µV typical
Adjacent Channel Selectivity	65 dB / 60 dB
Intermodulation	65 dB / 60 dB
Spurious and Image Rejection	65 dB
Audio Output	500 mW @ 4 Ohms, 10% THD

### Transmitter Specification: measured by TIA/EIA-603

Output Power	5 / 1 Watt
Modulation	16K0F3E, 11K0F3E
Conducted Spurious Emissions	65 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
Low Pressure	500.1 / I	500.2 / I, II	500.3 / I, II	500.4 / I, II
High Temperature	501.1 / I	501.2 / I, II	501.3 / I, II	501.4 / I, II
Low Temperature	502.1 / I	502.2 / I	502.3 / I, II	502.4 / I, II
Temperature Shock	503.1 / I	503.2 / I	503.3 / I	503.4 / I, II
Solar Radiation	505.1 / I	505.2 / I Cat. A1	505.3 / I Cat. A1	505.4 / I Cat. A1
Rain	506.1 / I, II	506.2 / I, II	506.3 / I, II	506.4 / I, III
Humidity	507.1 / I, II	507.2 / II, III	507.3 / II, III	507.4 / I
Salt Fog	509.1 / I	509.2 / I	509.3 / I	509.4 / I
Dust	510.1 / I	510.2 / I	510.3 / I	510.4 / I, III
Vibration	514.2 / X	514.3 / I Cat. 10	514.4 / I Cat. 10	514.4 / I Cat. 24
Shock	516.2 / I, II, V	516.3 / I, IV	516.4 / I, IV	516.5 / I, IV

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\*25 kHz will not be available on new equipment in the U.S.A. after 1/1/2013. © 2013 Vertex Standard LMR, Inc. All rights reserved. NSS\_350\_11/2013