



Vertex Standard

We make the difference



- 16 Channel capacity
- Power output: 5 W / 1 W (selectable)
- Wide band coverage:
 - VHF 134-174 MHz
 - UHF 400-470 MHz
 - UHF 450-520 MHz
- 8 Character alphanumeric display (VX-354)
- 500 mW loud audio with large 36mm speaker
- Large capacity 2000 mAh LI-ION battery (FNB-V96LI)
- Long battery life more than 15 hours* (with RX/TX battery saver circuit)
- Compact and rugged construction
- Wide / narrow bandwidth per channel
- CTCSS / DCS encode and decode
- DTMF ANI
- 2 Tone encode and decode
- 5 Tone signaling built-in
- Emergency feature
- Versatile scan (priority, dual watch, follow-me and TA scan)
- Lone worker feature built-in
- Stun, kill, revive and remote listen
- ARTS™ (auto-range transpond system)
- DTMF paging (option)
- Encryption (option) voice inversion rolling code
- MDC 1200® / GE-STAR® ANI (option)
- PC Programming
- Radio-to-radio cloning

VX-350 SERIES

VHF / UHF Portable Radios

WIDEBAND

LONG BATTERY LIFE MORE THAN 15 HOURS WITH 2000 mAh LI-ION BATTERY FNB-V96LI

The VX-350 Portables may be equipped with advanced FNB-V96LI Lithium-Ion Battery Packs with 2000 mAh of capacity for operating times of more than 15 hours, even when using 5 Watts (5-5-90 duty cycle, w/saver).

Battery	Saver ON (RX:STBY 1:4)	Saver OFF
FNB-V96LI 2000 mAh	15.5 (15) hrs	13 (12.5) hrs
FNB-V96LI 1800 mAh	14 (13.5) hrs	11.7 (11.3) hrs

WIDE BANDWIDTH

For communicating with other agencies, companies, or even within your own communications system, the wide bandwidth of this radio will let you operate anywhere within the 40 MHz (VHF) or 70 MHz (UHF) band.

500 mW LOUD AUDIO WITH LARGE 36mm SPEAKER
Ideal for reception in noisy environments, the VX-350's high-powered audio is coupled to a large 36mm internal speaker.

8 CHARACTER ALPHA NUMERIC DISPLAY (VX-354)

Providing indication of either the channel number or an Alphanumeric Channel Label of up to 8 characters, the LCD display also provides convenient operation function icons to provide instant recognition of radio status. Including signal strength indicator and battery gauge.

COMPACT AND RUGGED CONSTRUCTION

Weighing just 310g and measuring just 58 x 105 x 33mm, the VX-350 is ideal for business, industry, and public safety applications where light weight and compact size are important.

WIDE/NARROW BANDWIDTH PER CHANNEL

When programming radios for use in different jurisdictions, the VX-350 Series portables may be set up, channel by channel, for use in 12.5 kHz, 20 kHz or 25 kHz channel spacing environments. Deviation and bandwidth are automatically set according to the configuration you choose.

BUILT-IN EMERGENCY FEATURE

With the built-in emergency feature, you are never alone. Any softkey can be programmed for Emergency operation. When activated, the radio will go to a designated channel, broadcast the unit ID and transmit live audio for pre-determined intervals.

2 TONE ENCODE AND DUAL 2 TONE DECODE

The VX-350 Series can transmit a 2 tone paging call, and

can receive 2 tone calls using different tone combinations. For advanced network or fleet operations, a 5 tone encoder / decoder circuit is included in the VX-350 Series.

DTMF ANI A DTMF Automatic Number Identification string may be programmed into the VX-350, providing the dispatcher with a multiple-digit confirmation of the transmitting portable's identity.

DTMF PAGING (OPTION) The optional FVP-25 board adds a DTMF paging decoder. With DTMF you can Stun, Kill and Alert.

ENCRYPTION (OPTION) VOICE INVERSION, ROLLING CODE

The FVP-35 and FVP-36 Encryption Units provide security for your important public safety and security communications. A DTMF paging function is also included in the FVP-25 module, for selective calling.

MDC-1200® / GE-STAR® ANI ENCODE (OPTION)

Automatic Number Identification, triggered by the pressing of the PTT key, is available in the most popular Industry-standard formats, via the optional VME-100.

OTHER FEATURES

Versatile scan (priority, dual watch, follow-me and TA scan) CTCSS / DCS encode and decode; ARTS™ (auto range transpond system); PC programming; Radio-to-radio cloning

ACCESSORIES & OPTIONS

 MH-45B4B Speaker/Microphone (yacht cordless)	 MH-450S Speaker Microphone
 MH-360S Compact Speaker Microphone	 MH-37A4B Earpiece Microphone
 VC-25 VOX Headset	 FVP-25 Encryption / DTMF Paging Unit
 VME-100 MDC-1200® / GE-STAR® ANI Encode Unit	 FVP-36 Voice Inversion Encryption Unit
 FVP-35 Rolling Code Encryption Unit	 FNB-V96LI 7.4V 2000mAh Li-Ion Battery Pack
 FNB-V96LI 7.4V 1800mAh Standard Li-Ion Battery Pack	 VAC-300B/C/F* Desktop Rapid Charger
 VAC-6300 6 Unit Multi Rapid Charger	 VCM-2 Vehicle Charger Mount Adaptor
 CT-27 Clone cable (radio-to-radio cloning)	ANTENNA LIST UHF / ATU-BA / 400-430 MHz UHF / ATU-BA / 450-480 MHz UHF / ATU-BDS / 450-485 MHz 3.5" UHF / ATU-BF / 490-512 MHz VHF / ATU-BA / 134-151 MHz 3.5" VHF / ATU-BB / 150-163 MHz 3.5" VHF / ATU-BG / 161-174 MHz 3.5" VHF / ATU-DXL / VHF UNTUNED VHF / ATU-BA / 134-151 MHz VHF / ATU-BB / 150-163 MHz VHF / ATU-BG / 161-174 MHz

SPECIFICATIONS

General Specifications	VHF	UHF
Frequency Range	134-174 MHz	400-470 MHz 450-520 MHz
Number of Channels	16 Channels	
Power Supply Voltage	7.4 VDC ± 20%	
Channel Spacing	12.5 / 20 / 25 kHz	
Battery Life (5-5-90 duty) w/FNB-V96LI (2000mAh)	15.5 hrs (13hrs w/o saver)	15 hrs (12.5 hrs w/o saver)
Operating Temperature Range	-30°C to +60°C	
Frequency Stability	± 2.5ppm	
RF Input-Output Impedance	50 Ohm	
Dimensions (W x H x D)	58mm X 105mm X 33mm	
Approx Weight	310 g (with FNB-V96LI, Antenna, Belt Clip)	
Receiver Specifications	Measurements made per EIA standard TIA / EIA-603	
Sensitivity: 12dB SINAD	0.25 µV	0.25 µV
Adjacent Channel Selectivity	65 / 60dB (25 kHz / 12.5 kHz)	
Intermodulation	65 / 60dB (25 kHz / 12.5 kHz)	
Spurious & Image Rejection	65dB	
Audio Output	500 mW @ 4Ω, 5% THD	
Transmitter Specifications	Measurements made per EIA standard TIA / EIA-603	
Output Power	5 / 1 W	5 / 1 W
Modulation	16K OF 3E / 11K OF 3E	
Conducted Spurious Emissions	65dB below carrier	
FM Hum & Noise	45 / 40 dB (25 kHz / 12.5 kHz)	
Audio Distortion (@ 1kHz)	< 3% @ 1 kHz	

Measurements per EIA standards unless noted above. Specifications subject to change without notice or obligation.

APPLICABLE MIL-STD

Standard	MIL 810D Methods/Procedures	MIL 810E Methods/Procedures	MIL 810F Methods/Procedures
Low Pressure	500.2 / Procedure I, II	500.2 / Procedure I, II	500.3 / Procedure I, II
High Temperature	501.2 / Procedure I, II	501.3 / Procedure I, II	501.4 / Procedure I, II
Low Temperature	502.2 / Procedure I, II	502.3 / Procedure I, II	502.4 / Procedure I, II
Temperature Shock	503.2 / Procedure I	503.3 / Procedure I	503.4 / Procedure I, II
Rain	506.2 / Procedure II	506.3 / Procedure II	506.4 / Procedure I, III
Humidity	507.2 / Procedure II, III	507.3 / Procedure II, III	507.4
Salt Fog	509.2	509.3	509.4
Dust	510.2 / Procedure I	510.3 / Procedure I	510.4 / Procedure III
Vibration	514.3 / Procedure Cat. 10	514.4 / Procedure Cat. 10	514.5 / Procedure Cat. 24
Shock	516.3 / Procedure I	516.4 / Procedure I	516.5 / Procedure I

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