VX-350 SERIES

VHF/UHF Portable Radios $C\epsilon$

- 16 CHANNEL CAPACITY
- POWER OUTPUT : 5 W / 1 W (SELECTABLE)
- WIDE BAND COVERAGE
    - VHF 134-174 MHz
    - UHF 400-470 MHz
- 8-CHARACTER ALPHANUMERIC DISPLAY (VX-354)
- 500 mW LOUD AUDIO WITH LARGE 36 mm 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
- 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
    - MIL STD 810C/D/E/F

*FNB-V96LI/5-5-90 duty cycle w/saver

● Top

● Side

SECURITY

A B C D

VX-354   Actual Size   VX-351

$C\epsilon$

Vertex Standard
We make a difference

VX-350 SERIES VHF/UHF Portable Radio CE

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-V95LI 1800 mAh	14 (13.5) hrs	11.7 (11.3) hrs

( ) : UHF version

WIDE BANDWIDTH

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

8-CHARACTER ALPHANUMERIC 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.

500 mW LOUD AUDIO WITH LARGE 36 mm SPEAKER

Ideal for reception in noisy environments, the VX-350's high–powered audio is coupled to a large 36 mm internal speaker, assuring solid copy throughout difficult crowd control, fire, or sporting-event operations.

COMPACT AND RUGGED CONSTRUCTION

Weighing just 310 g and measuring just 58 x 105 x 33 mm (WHD) 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.

5-TONE SYSTEMS BUILT IN

For smooth integration into advanced radio systems, the VX-350 Portables are equipped with 5-Tone Signaling.

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.

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.

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) • WHISPER • PC PROGRAMMING • RADIO-TO-RADIO CLONING

Applicable MIL-STD

Standard	MIL 810C Methods/Procedures	MIL 810D Methods/Procedures	MIL 810E Methods/Procedures	MIL 810F Methods/Procedures
Low Pressure	500.1/Procedure I	500.2/Procedure I, II	500.3/Procedure I, II	500.4/Procedure I, II
High Temperature	501.1/Procedure I	501.1/Procedure I, II	501.3/Procedure I, II	501.4/Procedure I, II
Low Temperature	502.1/Procedure I	502.2/Procedure I	502.3/Procedure I, II	502.4/Procedure I, II
Temperature Shock	503.1/Procedure I	503.2/Procedure I	503.3/Procedure I	503.4/Procedure I, II
Solar Radiation	505.1/Procedure I	505.2/Procedure I Cat. A1	505.3/Procedure I Cat. A1	505.4/Procedure I Cat. A1
Rain	506.1/Procedure I	506.2/Procedure I, II	506.3/Procedure I, II	506.4/Procedure I, II
Humidity	507.1/Procedure I, II	507.2/Procedure II, III	507.3/Procedure III, III	507.4/Procedure I
Salt Fog	509.1/Procedure I	509.2/Procedure I	509.3/Procedure I	509.4/Procedure I
Dust	510.1/Procedure I	510.2/Procedure I	510.3/Procedure I	510.4/Procedure I, III
Vibration	514.2/Procedure X	514.3/Procedure I Cat. 10	514.4/Procedure I Cat. 10	514.5/Procedure I Cat. 24
Shock	516.2/Procedure I, II, V	516.3/Procedure I, IV	516.4/Procedure I, V	516.5/Procedure I, V

Specifications

General Specification	VHF	UHF
Frequency Range	134 -174 MHz	400 - 470 MHz
Number of Channels	16	
Power Supply Voltage	7.4 V DC ±20 %	
Channel Spacing	12.5 / 20 / 25 kHz	
Battery Life (5-5-90 duty) w/FNB-V96LI (2000mAh)	15.5 hrs (13 hrs w/o saver)	15 hrs (12.5 hrs w/o saver)
Operating Temperature Range	-25° C to +55° C	
Frequency Stability	±2.5 ppm	
RF Input-Output Impedance	50 Ohm	
Dimension (W x H x D)	58 x 105 x 33 mm	
Weight (Approx.)	310 g (w/FNB-V96LI,Antenna,Belt Clip)	

Receiver Specification	VHF	UHF
	Measured by EN 300 086	
Sensitivity 20 dB SINAD	-3 dB µV emf	
12 dB SINAD	0.28 µV	
Adjacent Channel Selectivity	70 / 60 dB (25 kHz/12.5 kHz)	
Intermodulation	65 dB	
Spurious and Image Rejection	70 dB	
Audio Output	500 mW @ 4 ohms 10 % THD	

Transmitter Specification	VHF	UHF
	Measured by EN 300 086	
Output Power	5 / 1 W	5 / 1 W
Modulation Limitting	±5.0 kHz / ±4.0 kHz / ±2.5 kHz (25 kHz/20 kHz/12.5 kHz)	
Spurious Emissions	-36 dBm ≤ 1 GHz, -30 dBm > 1 GHz	
FM Hum & Noise	45 / 40 dB (25 kHz/12.5 kHz)	
Audio Distortion	< 3 % @1kHz	

Specification may be changed without notification.

Accessories & Options

MH-45B4B
Noise Canceling Speaker Microphone

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
7.4 V 2000mAh Hi-Spec Li-Ion Battery Pack

FNB-V95LI
7.4 V 1800mAh Standard Li-Ion Battery Pack

VAC-300C/U*
Desktop Rapid Charger (CD-34 + PA-42 C/U*)

VAC-6300
6unit Multi Rapid Charger

VCM-2
Vehicle Charger Mounting Adapter

DCM-1
Desktop Charger Mounting Adapter

CT-27
Cloning Cable (Radio to Radio Cloning)

■ ANTENNA LIST

				Short Type	
UHF	ATU-6A	400-430 MHz			
	ATU-6B	420-450 MHz	ATU-7A	400-430 MHz	
	ATU-6C	440-470 MHz	ATU-7D	440-470 MHz	
VHF	ATV-6A	134-151 MHz/3.5"			
	ATV-6B	150-163 MHz/3.5"			
	ATV-6C	161-174 MHz/3.5"			
	ATV-6XL	VHF UNTUNED			
	ATV-8A	134-151 MHz			
	ATV-8B	150-163 MHz			
	ATV-8C	161-174 MHz			

LCC-350/S Leather Case (S for swivel belt clip)   *C for 230 VAC, U for 240 VAC   Various accessories listed may not be available in some countries.

Programming Cable	USB	FIF-10/A + CT-106	RS-232C	CT-29 + CT-28	Programming Software	CE86

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