

VX-350 Series

VHF/UHF Portable Radios

SPECIFICATION SHEET

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

The compact Vertex Standard 350 Series gives you a wide range of operating capabilities and options without paying extra.

Extended Performance with Long Battery Life

A 2000 mAh Lithium-Ion battery comes standard in the VX-350 Series, which provides extended talk time for greater convenience and productivity...even with the battery save function turned off.

Easy-To-Carry Compact Size

The small size is ideal for users that don't want a radio that gets in the way and is easy to conceal when necessary.

When Safety Counts

Includes built-in Emergency notification that will switch to a designated channel, send an emergency unit ID and transmit with a live microphone, an added benefit when working alone.

Prevent Unauthorized Use

If lost or stolen, the VX-350 Series can be quickly disabled remotely by sending a Stun command for temporary disabling or Kill command to permanently disable the radio (must be returned and re-programmed before using again).

Easily Integrate with Existing MDC System

Add the optional VME-100 board to make the VX-350 radio compatible for use with the rest of your MDC-1200 fleet.

Exclusive Auto-Range Transpond System – ARTS™

Only Vertex Standard radios are designed to inform you when you and another ARTS™-equipped station are within communication range. If out of range for more than 2 minutes, your radio senses no signal has been received and beeps to alert you. The base station can then alert the field unit to move back in range. A great solution to keep your workers coordinated.



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 – another great reason to choose Vertex Standard. Ask your Dealer for more details.



Additional Features

- 16 channel capacity
- Wide band coverage
- 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-37A4B: Earpiece microphone
- MH-450S: Speaker microphone
- MH-45B4B: Noise cancelling speaker microphone
- VH-115S: Behind-the-head headset w/boom mic
- VH-215S: Over-the-head single-muff headset
- VC-25: Over-the-head VOX headset
- VH-130S: 2-Wire earpiece w/palm mic and PTT switch
- FNB-V96LI: 2000 mAh Li-Ion battery
- FNB-V95LI: 1800 mAh Li-Ion battery
- VAC-300: Desktop rapid charger
- DCM-1: Desktop charger mounting adapter
- VCM-2: Vehicle mounting adapter for VAC-300
- VAC-6300: 6-Unit multi rapid charger
- LCC-351/S: Leather case w/swivel belt clip (VX-351)
- LCC-354/S: Leather case w/swivel belt clip (VX-354)

Option Boards

- FVP-25: Voice Encryption & 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 |
|---|--|-------------------------------|
| General Specification | | |
| 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) 2000 mAh FNB-V96LI | 15.5 hrs (13 hrs w/o saver) | 15 hours (12.5 hrs w/o saver) |
| 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) | 4.1 x 2.3 x 1.3 inches (105 x 58 x 33 mm) (w/FNB-96LI) | |
| Weight (Approx.) | 10.9 oz (310 g) (w/FNB-V96LI, ANT, belt clip) | |
| Receiver Specification: measured by TIA/EIA-603 | | |
| Sensitivity 12dB SINAD | 0.25µV | |
| Adjacent Channel Selectivity | 65 / 60 dB | |
| Intermodulation | 65 / 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 W | |
| Modulation | 16K0F3E, 11K0F3E | |
| Conducted Spurious Emissions | 65 dB below carrier | |
| FM Hum & Noise | 45 / 40 dB | |
| Audio Distortion | < 3 % @1kHz | |

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 | 501.2/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, II | 506.2/Procedure I, II | 506.3/Procedure I, II | 506.4/Procedure I, III |
| Humidity | 507.1/Procedure I, II | 507.2/Procedure II, III | 507.3/Procedure II, 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 | 514.4/Procedure I Cat. 24 |
| Shock | 516.2/Procedure I, II, V | 516.3/Procedure I, IV | 516.4/Procedure I, IV | 516.5/Procedure I, V |

Specifications are subject to change without notice or obligation.

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