

# VX-230 Series

## VHF/UHF Portable Radios

### SPECIFICATION SHEET

### Compact Radio with Long-Lasting Li-Ion Battery

The Vertex Standard VX-231 provides wide band coverage, a variety of signaling features and improved ergonomics\* that adds up to a better return on your investment.

#### Improved Portability

A radio that won't get in the way, the VX-231 is compact and light weight to easily carry with you on the job.

#### More Battery Power

Designed to use powerful Li-Ion battery technology for longer battery life. Includes a 1150 mAh battery providing 9 hours of operation with the battery saver enabled.

#### Wide Band Coverage for Added Value

One radio designed to cover VHF and UHF bands, which provides expanded options in frequencies to use.

#### More Scanning Options

While many radios provide 1 or 2 scanning options, the VX-231 radio gives you 4 additional scanning options for greater convenience and flexibility for the way you need your radios to perform. Options include: Priority, Dual Watch, Follow Me and Talk Around scan.

#### 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. Count on Vertex Standard for radios that are built to last and designed to provide more features for a better return on your investment. Ask your Dealer for more details.

## Additional Features

- 16 channel capacity
- Two programmable keys
- Flexible channel spacing: 12.5 kHz to 25 kHz
- Battery power save option
- Emergency
- Lone Worker
- DTMF ANI
- DTMF Speed Dial
- 5-Tone / 2-Tone Encode and Decode
- CTCSS / DCS Encode and Decode
- Manual squelch adjustment
- Radio-to-radio cloning

## Accessories

- MH-450S: Speaker microphone
- MH-360S: Compact speaker microphone
- MH-45B4B: Noise cancelling speaker microphone
- MH-37A4B: Earpiece 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
- FNB-V104LI: 2000 mAh Li-Ion battery
- FNB-V106: 1200 mAh Ni-MH battery
- FNB-V103LI: 1150 mAh Li-Ion battery
- VAC-300: Desktop rapid charger (Li-Ion only)
- VAC-20: Desktop charger (FNB-V106)
- DCM-1: Desktop charger mounting adapter
- VCM-3: Vehicle charger mounting adapter (VAC-20)
- VCM-2: Vehicle charger mounting adapter (VAC-300)
- VAC-6020: 6-unit charger (FNB-V106)
- VAC-6300: 6-Unit multi rapid charger (Li-Ion only)
- LCC-350: Leather case
- LCC-350S: Leather case w/swivel belt clip
- CLIP-18: Belt clip
- CLIP-17E: Swivel belt clip

## VX-230 Series Specifications

	VHF	UHF
<b>General Specification</b>		
Frequency Range	134 - 174 MHz	400 - 470 MHz; 450 - 520 MHz
Number of Channels	16	
Power Supply Voltage	7.4V DC $\pm$ 20%	
Channel Spacing	12.5/20/25 kHz	
PLL Steps	5/6.25 kHz	
Battery Life (5-5-90 duty)		
1200 mAh FNB-V106	9.0 hours (7.3 hours w/o saver)	
1150 mAh FNB-V103LI	9.0 hours (7.3 hours w/o saver)	
2000 mAh FNB-V104LI	16.5 hours (13.5 hrs w/o saver)	
IP Rating	IP54	
Operating Temperature Range	-30° C to +60° C	
Frequency Stability	$\pm$ 2.5 ppm	
RF Input-Output Impedance	50 Ohms	
Dimension (H x W x D)	10 x 58 x 30 mm (w/ FNB-V103LI)	
Weight (Approx.)	285 g (w/FNB-V103LI, Antenna, Belt Clip)	
<b>Receiver Specification: measured by TIA/EIA-603</b>		
Sensitivity 12dB SINAD	0.25 $\mu$ V typical	
Adjacent Channel Selectivity	65 / 60 dB 25 kHz / 12.5 kHz	
Intermodulation	65 / 60 dB 25 kHz / 12.5 kHz	
Spurious and Image Rejection	65 dB	
Audio Output	500 mW @ 4 Ohms 5% THD	
<b>Transmitter Specification: measured by TIA/EIA-603</b>		
Output Power	5 / 1 W	
Modulation	16K0F3E, 11K0F3E	
Conducted Spurious Emissions	65 dB below carrier	
FM Hum & Noise	45 / 40 dB 25 kHz / 12.5 kHz	
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	505.2/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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