VX-230 Series

VHF/UHF Portable Radios

SPECIFICATION SHEET

The Essential Radio for General Communications

Get cost-effective communications with the VX-231 radio that delivers more features and performance in its class for maximum return on investment.

Easy to Carry

A radio that won't get in the way, the VX-231 is compact and lightweight without sacrificing the performance and reach needed on the job.

Battery Power Options For Every Budget

Designed to use powerful Li-Ion and Ni-MH battery technology with three options providing up to 9 hours to 16.5 hours of operation with the battery saver enabled.

Safety Features Not Sacrificed

As with all Vertex Standard portable radios, the VX-231 includes both Emergency and Lone Worker alert functions to help monitor user safety. The Emergency alert can be programmed to instantly notify help with a press of a button. The Lone Worker function allows supervisors to monitor the safety status of radio users working alone in isolated areas.

More Scanning Options

While many radios provide one or two scanning options, the VX-231 radio has four scanning options for greater convenience and flexibility in the way you need your radios to perform. Options include: Priority, Dual Watch, Follow Me and Talk Around scan.

Exclusive Auto-Range Transponding 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, your radio senses no signal has been received and beeps to alert you. A great solution to keep your workers coordinated.

Side

Top

4.3" (H) X 2.3" (W) X 1.2" (D)

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.

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Vertex Standard

SPECIFICATION SHEET vertexstandard.com/lmr

Additional Features

- 16 channel capacity
- Two programmable keys
- Battery power save option
- Emergency
- Lone Worker
- DTMF ANI
- DTMF Speed Dial
- 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-2: Vehicle charger mounting adapter
- 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
General Specification		
Frequency Range	134 MHz - 174 MHz	400 - 470 MHz; 450 - 512MHz
Number of Channels	16	
Power Supply Voltage	7.4 V DC±20%	
Channel Spacing	12.5/20/25 kHz	
PLL Steps	2.5/5/6.25 kHz	5/6.25 kHz
Battery Life (5-5-90 duty) 1200 mAh FNB-V106 1150 mAh FNB-V103LI 2000 mAh FNB-V104LI	 9.0 hours (7.3 hours w/o saver) 9.0 hours (7.3 hours w/o saver) 16.5 hours (13.5 hrs w/o saver)	
IP Rating	IP54	
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)	4.3 x 2.3 x 1.2 inches (110 x 58 x 30 mm) (w/ FNB-V103LI)	
Weight (Approx.)	10.1 oz. (285g) (w/FNB-V103LI, Antenna, Belt Clip)	
Receiver Specification: measured by TIA/EIA-603		
Sensitivity 12dB SINAD	0.25µV 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	500mW @ 4 Ohms 5% 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 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.