Vertex Standard

VX-230 Series

VHF/UHF Portable Radios

SPECIFICATION SHEET

Compact Radio with Long-Lasting Li-Ion Battery

The Vertex Standard VX-231 provides wider band coverage, more 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 more compact and lightweight than the VX-160E series. A radio that is easier to 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.

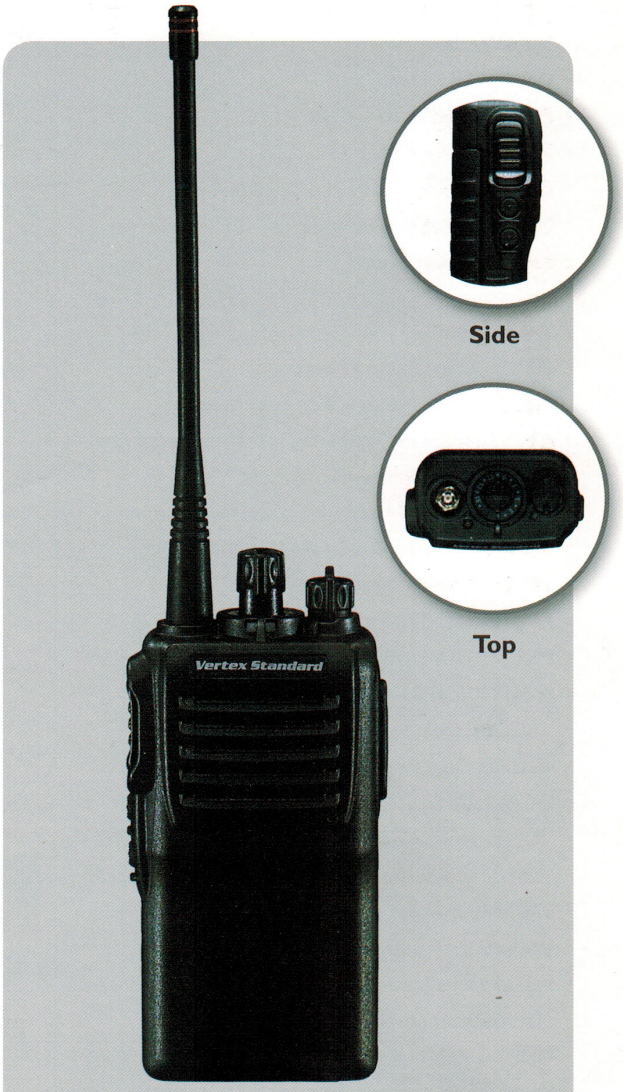
More Scanning Options

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 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 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.

*Compared to VX-160E series.



110 (H) X 58 (W) X 30 (D) mm

The Vertex Standard Difference

Our number one goal is achieving superior customer satisfaction by delivering products

VX-230 Series

Vertex Standard

SPECIFICATION SHEET vertexstandard.com

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-V103LI: 1150 mAh Li-Ion battery
- FNB-V106: 1200 mAh Ni-MH 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-300)
- VCM-3 : Vehicle charger mounting adapter (for VAC-20)
- VAC-6300: 6-Unit multi rapid charger (Li-Ion only)
- VAC-6020 : 6-Unit charger (FNB-V106)
- 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

CE

	VHF	UHF
General Specification		
Frequency Range	134 MHz - 174 MHz	400 - 478 MHz
Number of Channels	16	
Power Supply Voltage	7.4 V DC±20%	
Channel Spacing	12.5/20/25 kHz	
PLL Steps	5 / 6.25 KHz	
Battery Life (5-5-90 duty) 1150 mAh FNB-V103LI 1200 mAh FNB-V106 With 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	-25° C to +60° C	
Frequency Stability	±2.5 ppm	
RF Input-Output Impedance	50 Ohms	
Dimension (H x W x D)	110 x 58 x 30 mm (w/ FNB-V103LI)	
Weight (Approx.)	285 g (w/FNB-V103LI, Antenna, Belt Clip)	
Receiver Specification measured by EN 300 086		
Sensitivity 20 dB SINAD	- 3 dBµV emf	
Adjacent Channel Selectivity	70 dB	
Intermodulation	65 dB	
Spurious and Image Rejection	70 dB	
Audio Output	500mW @ 4 Ohms 5% THD	
Transmitter Specification measured by EN 300 086		
Output Power	5 / 1 W	
Modulation Limiting	±5.0 kHz @ 25 kHz ±4.0 kHz @ 20 kHz ±2.5 kHz @ 12.5 kHz	
Modulation	16K0F3E, 11K0F3E	
Spurious Emissions	-36 dBm ≤ 1 GHz, -30 dBm > 1 GHz	
FM Hum & Noise	45 / 40 dB 25 kHz / 12.5 kHz	
Audio Distortion	< 3 % @1 kHz	

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.

 VX230 CE Version (For Malaysia Only)