

VX-920 Series

VHF/UHF Portable Radios

SPECIFICATION SHEET

Dependable Communications for Long-Term Reliability

The VX-920 Series is ready to respond when you are with state-of-the-art engineering and a wide array of features, providing great value in its class.

Withstands Harsh Environments

Rain, snow, fire suppression spray and dust are no problem for these radios manufactured to strict IP ratings. The VX-920 series meets international waterproofing standard IP57 where water does not harm the radio when submersed to a depth of 1 metre for up to 30 minutes.

Intrinsically Safe

The VX-920 Series is available in intrinsically safe options that meet the SGS requirements of ANSI/UL913 6th Edition for Class I, Division 1, Groups A-D, Class II, Groups E-G; and Class III for use in hazardous locations.

Never Miss an Important Call

Includes DTMF paging and unmatched flexibility in scanning features that are designed to optimise operation in a wide variety of environments. In addition to basic scan, you also get Priority, Dual Watch, Follow-me, Follow-me Dual Watch and Talk Around scanning with a programmable home channel function built-in.

When Safety Counts – Never Be Alone

When help is needed, the VX-920 Series has Emergency notification that will switch to a designated channel and send an emergency alert. The radios also include Remote Listen which turns the radio on remotely if needed to check out what is happening near the radio.

Loud Audio for Noisy Environments

With 700mW audio output, be assured of hearing critical information you need.



Top



VX-929

VX-924

VX-921

133mm (H) X 57.5mm (W) X 37.5mm (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.



Meets the following standards:
AS/NZS4295, ISO9001 and ISO4001.

Additional Features

- 512 Channel capacity (VX-929/924)
- 48 Channel capacity (VX-921)
- Wide band coverage
- Seven programmable keys (VX-929/924)
- Three programmable keys (VX-921)
- Programmable 3-position toggle key
- Direct channel recall
- 12-Character LCD (VX-929/924)
- RX/TX Battery power save
- DTMF ANI
- Stun / kill / revive (5-tone)
- Lone Worker
- 2-Tone encode and multiple 2-tone decode
- 5-Tone signaling
- Compander
- Whisper
- Minimum volume control
- Clear voice and audio pitch control
- 7-Colour LED call alert indicator
- User selectable tone (VX-929/924)
- Radio-to-radio cloning
- Voting
- MDC-1200®

Accessories

- MH-50D7A: Public Safety speaker mic w/toggle
- MH-66A7A: Submersible noise cancelling speaker mic
- MH-66B7A: Submersible speaker mic w/PF key & toggle
- VH-121: 3-Wire mini lapel microphone surveillance kit
- VH-131: 2-Wire earpiece, palm mic. with PTT
- VH-111: Over-the-head dual-muff headset
- VH-115L: Behind-the-head headset w/boom mic
- VH-215L: Over-the-head, single-muff headset
- FNB-V92LI: 3000mAh Li-Ion battery
- FNB-V92Li/IS: 3000mAh Li-Ion battery
- FNB-V87LI: 2000mAh Li-Ion battery
- FNB-V86LI: 1150mAh Li-Ion battery
- FBA-34: Alkaline battery case (holds 6 AA batteries)
- VAC-920: Desktop rapid charger
- VAC-6920: 6-Unit rapid charger
- VCM-2: Vehicular charger kit
- LCC-920S: Leather case w/swivel belt clip
- CLIP-17A: Swivel belt clip

Option Boards

- FVP-25: Voice Inversion Encryption & DTMF paging
- FVP-35: Rolling Code Encryption
- FVP-36: Voice Inversion Encryption
- DVS-5: Digital voice storage

VX-920 Series Specifications

	VHF	UHF
General Specification		
Frequency Range	66 – 88MHz, 134 – 174MHz	400 – 470MHz; 450 – 520MHz
Number of Channels and Groups	512 and 32 Groups (VX-929/924) 48 and 3 Groups (VX-921)	
Power Supply Voltage	7.4V DC ± 20%	
Current Consumption	TX: 1.7 A, RX: 200mA, Standby: 75 (30)mA	TX: 1.9 A, RX: 200mA, Standby: 75 (30)mA
Channel Spacing	12.5 / 20 / 25kHz	
PLL Steps	5 / 6.25kHz	
Battery Life (5-5-90 duty) 3000 mAh FNB-92LI 2000 mAh FNB-V87LI	23 hours (18hrs w/o saver) 16 hours (12.5hrs w/o saver)	21.5 hours (16.5hrs w/o saver) 15 hours (11.5hrs w/o saver)
IP Rating	IP 57	
Operating Temperature Range	-30°C to +60°C	
Frequency Stability	±2.5ppm	
RF Input-Output Impedance	50 Ohms	
Dimension (H x W x D)	133mm x 57.5mm x 37.5mm (w/FNB-V86LI)	
Weight (Approx.)	370g (w/FNB-V86LI, ANT and Belt Clip)	
Receiver Specification: measured by TIA/EIA-603		
Sensitivity 12dB SINAD	0.25 / 0.32µV	
Adjacent Channel Selectivity	75 / 70dB	
Intermodulation	75 / 70dB	
Spurious and Image Rejection	80dB	75dB
Audio Output	700mW @ 16 Ohms 5% THD	
Transmitter Specification: measured by TIA/EIA-603		
Output Power	5 / 2.5 / 1 / 0.25W	
Modulation	16K0F3E, 11K0F3E	
Conducted Spurious Emissions	70dB	
FM Hum & Noise	45 / 40dB	
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	500.2	500.3	500.4
High Temperature	501.1/Procedure I, II	501.2/Procedure I, II	501.3/Procedure I, II	501.4/Procedure I, II
Low Temperature	502.1/Procedure I, II	502.2/Procedure I, II	502.3/Procedure I, II	502.4/Procedure I, II
Temperature Shock	-	503.2/Procedure I	503.3/Procedure I	503.4/Procedure I
Solar Radiation	505.1/Procedure I	505.2/Procedure II Cat. A1	505.3/Procedure II Cat. A1	505.4/Procedure I, II Cat. A1
Rain	506.1/Procedure I	506.2/Procedure I	506.3/Procedure I, II	506.4/Procedure I
Humidity	507.1/Procedure I, II	507.2/Procedure II, III	507.3/Procedure II, III	-
Salt Fog	509.1	509.2	509.3	509.4
Dust	510.1/Procedure I	510.2/Procedure I	510.3/Procedure I	510.4/Procedure I, III
Vibration	514.2/ Procedure VIII, X	514.3/Procedure I Cat. 10	514.4/Procedure I Cat. 10	514.5/Procedure I Cat. 20, 24
Shock	516.2/Procedure I	516.3/Procedure I	516.4/Procedure I	516.5/Procedure I

Specifications are subject to change without notice or obligation.

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Contact your authorised Vertex Standard dealer today!