



Public Safety Product Guide



www.vertexstandard.com

Ready to serve the needs of Public Safety.

Why Vertex Standard?

For over five decades, Vertex Standard has maintained a focused commitment to delivering quality radio communications equipment that supports business productivity and public safety worldwide. We are proud to have never lost sight of this commitment and are relentless to do what it takes to continuously earn your business and achieve total customer satisfaction.

- Focused Commitment to Radio Communications Since 1956
- Engineering Expertise in Compact, Feature - Rich Radios for Maximum Value
- Quality and Continuous Improvement Standards
- Reliable Products Built to IP and MIL-STD Specifications
- Value-Driven Performance: Quality Radios and Cost Savings

Portable • Mobile • Low Band • P25 Interoperability

Two-way radios might almost be considered the most important tool used in public safety as the primary means for dispatch, on-going communications and emergency response. Vertex Standard recognizes this importance and offers a variety of cost-effective radio solutions designed to perform in some of the most demanding conditions, giving you more of what you need for less than you expect.

Built for Durability

Vertex Standard portable and mobile radios are designed to withstand harsh environments manufactured to strict IP ratings and Military Standards to function effectively in a variety of environments and withstand abuse in extreme circumstances. Adhering to these rigorous test procedures ensures the radio you use is built to last and performs the way you need.

Usability

Get radios that are easy to access and operate by first responders. Vertex Standard is known for producing compact, feature rich radios built for real world use while wearing gloves and tactical gear and working under extreme pressure when every second counts.

When Safety Counts

All Vertex Standard radios include an Emergency alert for enhanced user safety to transmit with a press of a button when problems arise.

Smallest Submersible P25 Portable Radio

Vertex Standard's VX-P820/P870 Series is designed to promote increased user safety in a truly compact radio without sacrificing performance. It is easy to carry and conceal and more convenient without the weight of larger radios. An ideal choice for undercover or tactical operations.

Exclusive Auto-Range Transpond System – ARTS™

Only Vertex Standard radios are designed to notify a user when their radio and another ARTS-equipped radio are within communication range when operating in analog mode. If out of range for more than 2 minutes, the radio senses no signal has been received and beeps to alert the user. A great solution to keep rescue teams coordinated when constant contact is critical.



Get quality radios for
maximum cost performance.



APCO P25 Interoperability

Vertex Standard offers conventional portable and mobile radio solutions designed for APCO P25 interoperability. Combined with state-of-the-art engineering, the P25 radios provide great value in its class. Choose from the VX-P820/P870 or VX-P920/P970 Series portable or VX-7100/7200 mobile radio solutions that provide the following P25 digital mode capabilities:

- **Expanded signaling** supporting selective calling, Talk Group IDs (TGID), Network Access Codes, Individual ID lists and Paging Group lists for flexible communications.
- **Enhanced voice quality** with the AMBE+2™ Vocoder for exceptional voice quality in both digital P25 and narrow-band modes of operation.
- **Connectivity assurance** with the RSSI warning that emits an audible alert when the receive signal strength drops to a level not suitable for reliable communications.
- **Security options available** to support both Advanced Encryption Standard (AES) and Data Encryption Standard (DES) as required by APCO Project 25. Additionally, multiple encryption keys can be stored in the radio as required.



VX-820/870 Series

Dual-Band Management

To meet complex communication requirements for connectivity with departments operating on different frequency bands, Vertex Standard offers mobile radios that support dual-band networking and a series of radios with dual-band receive capability.

Mode	Description	Radios
Dual-Band Receive	Supports additional RX reception with sub-receiver option installed	VX-920/970 Portables VX-4100/4200 Mobiles VX-7100/7200 Mobiles
Dual-Band Networking	Operate one control head and two RF decks on different bands including Low Band, VHF or UHF	VX-5500 Mobile VX-6000 Mobile

Extended Reach for Rural or Remote Public Safety

Rural or remote response teams seeking a cost-effective communication solution can consider conventional low band operations in large geographic areas with few obstructions. To meet this need, Vertex Standard offers the VX-510 portable radio (29.7 – 38 MHz / 38 – 50 MHz) and VX-5500 (29.7 – 37 MHz / 37 – 50 MHz) or VX-6000 (37 – 50 MHz) mobile radios. These radios are built for reliable performance to help you stay informed efficiently of all that is happening.



VX-920/970 Series



VX-7100/7200



VX-6000



VX-5500

**A Complete Suite of Emergency Response Communications Solutions.
Get More of What You Need for Less Than You Expect.**

	VX-820/870 VX-P820/P870*	VX-920/970 VX-P920/P970*	VX-7100/7200	VX-6000	VX-5000
Durability	IP57 (VX-820) IP68 (VX-870) MIL 810 C,D,E,F Intrinsically Safe	IP57 (VX-820) IP68 (VX-870) MIL 810 C,D,E,F Intrinsically Safe	MIL 810 C,D,E,F	MIL 810 C,D,E	MIL 810 C,D,E
Usability	16 / 512 Channels 700 mW Audio Output Compander Audio Pitch Control Whisper Minimum Volume Control 20+ hours battery life 7-Color LED Flexible Scan Options	48 / 512 Channels 700 mW Audio Output Compander Audio Pitch Control Whisper Minimum Volume Control 20+ hours battery life 7-Color LED Flexible Scan Options	8 / 501 Channels 2W internal / 12W external Audio Output Compander Minimum Volume Control Public Address / Horn Alert	250 Channels 5 W internal / 10 W external Audio Output Compander Public Address / Horn Alert	250 Channels 5 W internal / 10 W external Audio Output Compander Public Address / Horn Alert
Safety	Emergency Lone Worker Remote Listen ARTS	Emergency Lone Worker Remote Listen ARTS	Emergency Remote Listen Internal Microphone ARTS	Emergency Remote Listen Internal Microphone ARTS	Emergency Remote Listen Internal Microphone ARTS
P25*	Selective Calling Talk Group IDs (TGID) Network Access Codes Individual ID Lists Paging Group Lists Mixed Mode by Channel AMBE+2 Vocoder RSSI Warning Alert Caller ID Display	Selective Calling Talk Group IDs (TGID) Network Access Codes Individual ID Lists Paging Group Lists Mixed Mode by Channel AMBE+2 Vocoder RSSI Warning Alert Caller ID Display	Selective Calling Talk Group IDs (TGID) Network Access Codes Individual ID Lists Paging Group Lists Mixed Mode by Channel AMBE+2 Vocoder RSSI Warning Alert Caller ID Display	N/A	N/A
Dual-Band Capability	N/A	Optional Receiver	Optional Receiver	Dual-Band Networking	Dual-Band Networking
Frequency	134 – 174 MHz 380 – 450 MHz* 400 – 470 MHz 450 – 512 MHz	134 – 174 MHz 380 – 450 MHz* 400 – 470 MHz 450 – 512 MHz	134 – 174 MHz 380 – 450 MHz 400 – 470 MHz 450 – 512 MHz	37 – 50 MHz 148 – 174 MHz 450 – 480 MHz 450 - 490 MHZ	29.7 – 37 MHz 37 – 50 MHz 134 – 160 MHz 148 – 174 MHz 450 – 490 MHz
Warranty	3 Years	3 Years	3 Years	3 Years	3 Years

View complete product details and download more information at www.vertexstandard.com



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