

P25 Mission Critical

Viking VP5000

VHF · UHF (High & Low) · 700/800 MHz

SN/SZ · P25 PHASE1 & 2

At just under 5.5 inches tall, these small KENWOOD Viking portable radios are packed with advanced features for today's public safety agencies.



Features

Mixed protocol operation (P25 Phase 1 & 2 Trunking, P25 Conventional, SN/SZ, FM Analog)

Mixed protocol zones (each channel in a zone can be from a different system)

1024 channels

1 Watt audio output for high noise environments

Voice annunciation & custom announcement creation

Fully ruggedized - IP67 & MIL-STD-810 C/D/E/F/G

Full key models (w/numeric keypad) & standard key models (w/o numeric keypad)

Built-In GPS receiver/antenna for enhanced awareness¹

MDC-1200 & GE-Star signaling

P25 Authentication

Bluetooth®

Man Down

Encryption

- ARC4™ software encryption; compatible w/Motorola ADP™
- DES-OFB
- AES-256 (FIPS 140-2) Single and Multi-Key
- Over-the-Air-Rekeying (OTAR)
- VK5000 or Motorola KVL3000/KVL4000 Keyloader

Accessories

Complete line of accessories including microphones, speakers & antennas.

Download the accessory catalog at

www.efjohnson.com/products/accessories.

User Selectable Color Themes

Multi-line text

Multiple visual indicators including battery health & signal strength

Day & night user selectable display options (8 themes available)



Day - High Contrast



Night - High Contrast

Compatible With P25 Systems

ATLAS® P25 Phase 1 and Phase 2 System

Motorola® Systems

- Motorola Astro® 25 - P25 Phase 1 & Phase 2
- Motorola Astro® SmartNet®/SmartZone®

Harris VIDA® - P25 Phase 1 & Phase 2

Airbus (formerly Cassidian) VESTA™ Radio - P25 Phase 1 & Phase 2

We combine P25 design expertise with recognized quality & reliability along with advanced technology to make KENWOOD Viking radios simple to use & maintain.



Perpetual Software Licensing

Adds greater value to your radios by extending the life of the software into your next hardware platform — you own the software option forever, and your licenses are simple to manage with our cloud-based tool — Vault™.



Armada® Fleet Management

Update radios in a group rather than one at a time. One template programs both portables & mobiles. Supports either direct computer connection or Over-the-Air Programming (OTAP). Elite battery management enables wireless tracking of battery fleet.



TrueVoice™ Noise Cancellation

Software-based noise cancellation automatically filters out noise source frequencies and eliminates the need for extra configuration. Works in analog or digital mode and with any accessory.

VP5230/5330/5430 Portable Specifications

General		VP5230	VP5330	VP5430
Frequency Range		136-174 MHz (FCC ID K44431400)	Type 1: 450-520 MHz (FCC ID K44431500) Type 2: 380-470 MHz (FCC ID K44431501)	RX: 763-776, 851-870 MHz TX: 763-776, 793-806, 806-825, 851-870 MHz (FCC ID ALH442000)
Max. Channels Per Radio			1024	
Number of Zones			255	
Max. Channels Per Zone			255	
Channel Spacing	Analog	12.5/15/20/25*/30* kHz	12.5/25* kHz	12.5/25 kHz
	Digital	12.5 kHz	12.5 kHz	12.5 kHz
Power Supply			7.5 V DC ±20%	
Operating Temperature			-22 °F to +140 °F (-30 °C to +60 °C)	
Frequency Stability		±1.5 ppm	±1.5 ppm	±1.5 ppm
Dimensions (W x H x D) Projections Not Included	KNB-L2 (2,600 mAh)		2.28 x 5.47 x 1.56 in. (58.0 x 138.9 x 39.5 mm)	
	KNB-L3 (3,400 mAh)		2.28 x 5.47 x 1.77 in. (58.0 x 138.9 x 44.9 mm)	
Weight with Battery	KNB-L2 (2,600 mAh)		14.3 oz (406 g)	
	KNB-L3 (3,400 mAh)		15.8 oz (449 g)	
Receiver		VP5230	VP5330	VP5430
Sensitivity	P25 Digital (5% BER)		-119 dBm	
	Analog (12 dB SINAD)		-119 dBm	
Selectivity	P25 Digital		60 dB	
	Analog @ 12.5 kHz		65 dB	
	Analog @ 25 kHz		73 dB	
Intermodulation		73 dB		75 dB
Spurious Rejection		80 dB		75 dB
Audio Distortion			3%	
Audio Output Power			500 mW/8 Ω (3% Distortion)/1,000 mW/8 Ω (5% Distortion)	
Transmitter		VP5230	VP5330	VP5430
RF Output Power		1W/6W	1W/5W	1W/3W
Spurious Emission			-70 dB	
FM Hum & Noise	Analog @ 12.5 kHz		40 dB	
	Analog @ 25 kHz		45 dB	
Audio Distortion			2%	
Emission Designator		16K0F3E, 11K0F3E, 8K10F1E, 8K10F1D, 8K10F1W		16K0F3E, 14K0F3E, 11K0F3E, 8K10F1E, 8K10F1D, 8K10F1W

Mil Standard	810G
Low Pressure	500.5 / I, II
High Temperature	501.5 / I, II
Low Temperature	502.5 / I, II
Temp. Shock	503.5 / I
Solar Radiation	505.5 / I
Rain	506.5 / I, III
Humidity	507.5 / II
Salt Fog	509.5
Dust	510.5 / I
Vibration	514.6 / I
Immersion	512.5 / I
Shock	516.6 / I, IV

Encryption Options	
Supported Encryption	AES, DES-OFB, ARC4
Encryption Key/ Radio	126 Common Key Reference (CKR), 126 Physical Identifier, (PID), Compatible w/ Motorola Key Variable Loader
Encryption Frame Re-sync Interval	P25 CAI 360 MSEC
Encryption Keying	External Key Loader, OTAR
Mode	OFB-Output Feedback
Encryption Type	Digital
Key Erasure	Keyboard Command
Standards	FIPS 46-3, FIPS 81, FIPS 140-2, FIPS 197

Hazardous Location Certification	
Certification Lab	CSA Group
Standard Applied	ANSI/TIA 4950-A-2014, UL913 5th Edition & ANSI/ISA-12.12.01-2011
Classification Rating	Intrinsically Safe: Classes I, II, III, Division 1, Groups D, E, F, G Non-incendive: Class I, Division 2, Groups A, B, C, D
Approved Battery	KNB-LS5
Approved Speaker Microphones	KMC-54WDM
International Protection Standard	
Dust & Water	IP54, IP55
Immersion	IP67**/68***

¹Refer to the Viking VP5000 operating manual for detailed requirements & conditions for proper GPS operation.

^{*} 25/30 kHz in VHF/UHF Bands (except T-Band) are not included in the models sold in the USA or US territories.

^{**} IP67/68 - Must have the Speaker Mic Universal Connector or Universal Connector Protector connected.

^{***} IP68=1m/2H Specifications shown are typical and subject to change without notice Please check the website for the latest version. V.07.25.18

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EF Johnson Technologies, Inc.

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1440 Corporate Drive, Irving, TX 75038-2401

Phone: 800.328.3911 · ejjohnson.com