

VP600 Federal

UHF

P25 Phase 1 & 2 · Viking16

With a top display and best in the industry audio performance, the VP600 single band portable offers smarter visual and audio features that make first responder communications effortless. (GSA contract # GS-35F-0675K)

Features

- Mixed protocol operation (P25 Phase 1 & 2 Trunking, P25 Conventional, Viking16, FM Analog)
- Mixed protocol zones (each channel in a zone can be from a different system)
- JF-12 certification
- 2048 channels
- Public safety ergonomics with large glove friendly knobs
- Top flip display changes text orientation for viewing while in holster
- Backlight on top display changes for event indication (ex. emergency turns display orange)
- Multiple visual indicators including battery health & signal strength
- 1 Watt audio output for high noise environments
- Voice annunciation & custom announcement creation
- Fully ruggedized - IP67 & MIL-STD-810 C/D/E/F/G
- Dual Shield design (internal metal housing & an external polycarbonate casing for exceptional durability)
- Available in two keypad options (limited and full)
- MDC-1200 & GE-Star signaling
- P25 Authentication
- Instant Recording Replay (IRR)
- Encryption
 - ARC4™ software encryption; compatible with Motorola ADP™
 - DES-OFB
 - AES-256 (FIPS 140-2) Single and Multi-Key
 - Over-the-Air-Rekeying (OTAR)
 - VK5000 or Motorola KVL3000/KVL4000 Keyloaders



Compatible With P25 Systems

- ATLAS® P25 Phase 1 and Phase 2 System
- Motorola Astro® 25 - P25 Phase 1 & Phase 2
- Harris VIDA® - P25 Phase 1 & Phase 2
- Airbus (formerly Cassidian) VESTA™ Radio - P25 Phase 1 & Phase 2

Accessories

Complete line of accessories including microphones, speakers & antennas. Download the accessory catalog at www.efjohnson.com/products/accessories.

Refer to the Viking VPx00 operating manual for detailed requirements & conditions for proper GPS operation.

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.

Viking VP600 Portable Specifications

General		UHF		
Frequency Range	380-470 MHz			
Channel Spacing	12.5 kHz, 25 kHz ¹			
Max Freq. Separation	Full Bandsplit			
FCC Type Acceptance Certification	ATH2425720			
Canada Type Certification	IC:933B-24275720			
FCC Emissions Designators	11K0F3E, 8K10F1D, 8K10F1E, 8K10F7E			
Input Voltage	7.4 V			
Dimensions (w/o antenna) HxWxD	7.5" x 2.62" x 1.75" (19.1 cm x 6.7 cm x 4.4 cm)			
Weight (w/o standard battery)	12.6 oz (357.2 g)			
Case	Polycarbonate - black or high visibility (additional fee)			
Temperature Range	-22°F to +140°F (-30°C to +60°C)			
Vocoder/Noise Cancellation	AMBE+2 version 1.6 TrueVoice™ noise cancellation and audio enhancement			
Programmable Front Display	Backlit LCD Status Bar (time, date, signal strength, battery level), icon or text display options Up to 4 rows of 12 character lines			
Programmable Top Display	Backlit LCD Status Bar (time, date, signal strength, battery level) or text display options Up to 2 rows of 12 character lines			
Transmitter		UHF		
RF Power Output	4 W			
Frequency Stability [-22°F to +140°F (-30°C to +60°C)]	1.5 ppm			
Modulation Limiting 25 kHz Channels	5 kHz ¹			
Modulation Limiting 12.5 kHz Channels	2.5 kHz			
Emissions (Conducted/Radiated)	75 dBc			
Audio Response	+1, -3 dB			
FM Hum and Noise 25 kHz Channels	47 dB ¹			
FM Hum and Noise 12.5 kHz Channels	47 dB			
Audio Distortion	1%			
Receiver		UHF		
Audio Power Output	1 W rated 2.5 W Max			
Frequency Stability [-22°F to +140°F (-30°C to +60°C)]	1.5 ppm			
Analog Mode Sensitivity: 12 dB SINAD	-119 dBm			
Digital Mode Sensitivity: 5% BER	-119 dBm			
Selectivity: 25 kHz Channels	75 dB ¹			
Selectivity: 12.5 kHz Channels	60 dB			
Intermodulation	75 dB			
Spurious & Image Rejection	80 dB			
FM Hum and Noise 25 kHz Channels	50 dB ¹			
FM Hum and Noise 12.5 kHz Channels	44 dB			
Audio Distortion	1.5%			
Battery		Dimensions (HxWxD)	Weight	Capacity
Lithium Ion		6.5" x 2.3" x .78" (16.5 cm x 5.8 cm x 2.0 cm)	8.1 oz (229.6 g)	4500 mAh

Note 1: 25Khz mode is not available in the US FCC frequencies in UHF

Specifications are measured per TIA 102.CAAA-C, TIA 102.CAAB-C and per TIA 603-D.

All specifications are subject to change without notice. Please check the website for the latest version. V.02.15.19 © Copyright 2019 EF Johnson Technologies, Inc. (E.F. Johnson Company is operating entity)

Environmental Specifications		
Environment	Mil Spec	810G
	M	P
Low Pressure	500.5	II
High Temp.	501.5	II
Low Temp.	502.5	II
Temp. Shock	503.5	I-D
Solar Radiation	505.5	I
Rain/Blown Rain	506.5	I
Humidity	507.5	I
Salt Fog	509.5	NA
Dust and Sand	510.5	I
Vibration	514.6	I
Shock	516.6	VI, V
Immersion	512.5	I
M=Method, P=Procedure Also meets equivalent superseded C, D, E, and F standards. Immersion meets IEC 529 IP67		
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	FM Approvals (FM)	
Standard Applied	FM3611	
Classification Rating	Class I, Division 2, Groups A, B, C, D	
Accessories		
Approved Battery	5875700373 (identified by lack of release button & presence of key slot on bottom of battery)	
Approved Speaker Microphones	5893211B18, 5893211B24, 5893211B30, 5893211G18, 5893211G24, 5893211G30 (KENWOOD Viking Premium Speaker Mic w/options for black or high visibility & three cord lengths)	

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