

# KENWOOD



P25 Mission Critical

## VP-600 Single Band

700/800 MHz • VHF • UHF • P25 PHASE 1 & 2 • FM ANALOG

With a top display and best in the industry audio performance, the VP600 portable offers smarter visual and audio features that make first responder communications effortless.

### P25 COMPLIANT/ MULTI-PROTOCOL

- P25 Phase 1 & Phase 2
- Supports P25 CAI (Common Air Interface)
- Compatible with Motorola® System v 7.x, Motorola Astro® & SMARTNET® II/SmartZone®
- Trunked & conventional system protocols
- Over-The-Air Rekeying (OTAR)
- MDC-1200 & GE-Star signaling
- Mixed Protocol Zones (each channel in a zone can be from a different system)

### RUGGED & RELIABLE

- Meets MIL Standard 810 G specs
- Immersion rated (IP67) (waterproof in 1 meter of water up to 30 minutes)
- Dual Shield design (internal metal housing and an external polycarbonate casing for exceptional durability)

### EASY TO OPERATE

- Available in three models: no keypad, limited keypad or full keypad versions
- Top display on all three models to maximize viewing while in holster
- Controllable backlit display settings to increase visibility in all light conditions
- Backlit keypad
- Multiple visual indicators including battery level & signal strength
- Ergonomic knobs for easier operation with gloves

### SUPERIOR AUDIO QUALITY

- High performance speaker provides 1W nominal audio for loud & clear sound across various noise environments
- TrueVoice™ noise cancellation works in analog or digital, eliminates the need for programming noise profiles, and works with any accessory
- AMBE+2 version 1.6 vocoder using TIA's latest standards

### ADVANCED FEATURES

- P25 Radio Authentication
- Programmable soft keys, menu & DTMF keys
- Up to 1024 channels
- Text messaging
- Customizable voice announcement
- Conventional vote scan is standard
- Over-The-Air Programming (OTAP) option to program radios in the field
- Armada® programming software provides simple radio fleet management including profile templates & sorting/filtering by function or agency
- Elite battery management enables wireless tracking of battery fleet
- Enhanced radio security using software and hardware system keys
- Industry-standard encryption capabilities such as AES or DES-OFB
- ARC4™ software encryption; compatible with ADP™
- Speaker microphone disconnect alarm enhances safety
- Integrated GPS (Only in 700/800 MHz)

### ACCESSORIES

- Complete line of accessories including speaker mics, cases, batteries, antennas & chargers. Download the accessory catalog at [www.efjohnson.com/products/accessories](http://www.efjohnson.com/products/accessories).



# Viking VP600 Portable SPECIFICATIONS

GENERAL	700/800	VHF	UHF	
Frequency Range	762-806 MHz 806-870 MHz	136-174 MHz	380-470 MHz	470-512 MHz
Channel Spacing	12.5 kHz, 25 kHz <sup>1</sup>			
Max Freq. Separation	Full Bandsplit			
FCC Type Acceptance Certification	ATH2425770	ATH2425710	ATH2425720	ATH2425740 (P)
Canada Type Certification	IC:933B-2425770	IC:933B-2425710	IC:933B-24275720	IC:933B-2425740 (P)
FCC Emissions Designators	16K0F3E, 14K0F3E, 11K0F3E, 8K10F1D, 8K10F1E, 8K10F7E	11K0F3E, 8K10F1D, 8K10F1E, 8K10F7E	11K0F3E, 8K10F1D, 8K10F1E, 8K10F7E	16K0F3E, 11K0F3E, 8K10F1D, 8K10F1E, 8K10F7E
Input Voltage	7.4V			
Dimensions (w/o antenna) HxWxD	7.5" x 2.62" x 1.75"			
Weight (w/o standard battery)	12.6 oz			
Case	Polycarbonate - black or high visibility			
Temperature Range	-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	700/800	VHF	UHF	
RF Power Output	2.5/3 W	5 W	4 W	
Frequency Stability (-30°C to +60°C)	1.5 ppm			
Modulation Limiting 25 kHz Channels	5 kHz <sup>1</sup>			
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	50 dB	56 dB <sup>1</sup>	47 dB	
FM Hum and Noise 12.5 kHz Channels	44 dB	50 dB	47 dB	
Audio Distortion	1%			
RECEIVER	700/800	VHF	UHF	
Audio Power Output	1 W rated   2.5 W Max			
Frequency Stability (-30°C to +60°C)	1.5 ppm			
Analog Mode Sensitivity: 12 dB SINAD	-120 dBm	-122 dBm	-119 dBm	
Digital Mode Sensitivity: 5% BER	-120 dBm	-122 dBm	-119 dBm	
Selectivity: 25 kHz Channels	75 dB <sup>1</sup>			
Selectivity: 12.5 kHz Channels	60 dB			
Intermodulation	75 dB			
Spurious & Image Rejection	80 dB			
FM Hum and Noise 25 kHz Channels	50 dB <sup>1</sup>			
FM Hum and Noise 12.5 kHz Channels	44 dB			
Audio Distortion	1.5%			
BATTERY	Dimensions (HxWxD)	Weight	Capacity	
High Capacity Lithium Ion	6.5" x 2.3" x .78"	8.1 oz	3780 mAh	


Note 1: 25 kHz mode is not available in US FCC frequencies in 700 MHz, UHF or VHF.

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.  
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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

**JVCKENWOOD Group**

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