KENWOOD

VP900

VHF · 700/800 MHz P25 Phase 1 & 2 · Viking16

The Viking[®] VP900 is a dual-band, multi-protocol, P25 Phase 2 radio equipped with industry leading audio, display, and advanced feature capabilities that meet the needs of police, fire, EMS, and other mission critical users.

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)
- 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 three keypad options (none, limited, full)
- Integrated GPS¹
- 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

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

VIKING[®] P25 Mission Critical



Compatible With P25 Systems

- ATLAS® P25 Phase 1 and Phase 2
- 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 accesory catalog at www.efjohnson.com/products/accessories.

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

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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 VP900 Portable Specifications

General	700/800	VHF			
Frequency Range	763-805 MHz 806-869 MHz	136-174 MHz			
Channel Spacing	12.5 kHz, 25 kHz'				
Max Frequency Separation	Full Bandsplit				
FCC Type Acceptance Certification	ATH2425780				
Canada Type Certification	IC:933B-2425780				
FCC Emissions Designators	16K0F3E, 14K0F3E, 11K0F3E, 8K10F1D, 8K10F1E, 8K10F7E	0F1E, 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)	12.4 oz (351.5 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	700/800	VHF			
RF Power Output	2.5/3 W	5 W			
Frequency Stability [-22°F to +140°F (-30°C to +60°C)]	1.5 ppm				
Modulation Limiting 25 kHz Channels	5 kHz'				
Modulation Limiting 12.5 kHz Channels	2.5 kHz				
Emissions (Conducted/ Radiated)	75 dB	70 dB			
Audio Response	+1 , -3 dB				
FM Hum and Noise 25 kHz Channels	49 dB1				
FM Hum and Noise 12.5 kHz Channels	43 dB				
Audio Distortion	1.5	%			
Receiver	700/800	VHF			
Audio Power Output Frequency Stability [-22°F to	1 W rated				
+140°F (-30°C to +60°C)] Analog Mode Sensitivity: 12					
dB SINAD Digital Mode Sensitivity: 5%	-121 dBm -121 dBm	-122 dBm -122 dBm			
BER Selectivity: 25 kHz Channels	75 dB'				
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%				

Note 1: 25 kHz mode is not available in US FCC frequencies in VHF.

Battery	Dimensions (HxWxD)	Weight 8.1 oz (229.6 g)	Capacity 4500 mAh
Lithium Ion	6.5" x 2.3" x .78" (16.5 cm x 5.8 cm x 2.0 cm)		

Specifications are measured per TIA-102.CAAA-E, TIA102.CAAB-D and per TIA-603-E.

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)

Environment		810G			
		Р			
Low Pressure		П			
High Temp.		11			
Low Temp.		11			
	503.5	I-D			
	505.5	I			
	506.5	I			
	507.5	I			
	509.5	NA			
	510.5	I			
	514.6	I			
	516.6	VI, V			
	512.5	I			
M=Method, P=Procedure Also meets equivalent superseded C, D, E, and F stan- dards. Immersion meets IEC 529 IP67					
	AES, DES-OFB,	ARC4			
126 Common Key Reference (CKR), 126 Physical Identifier, (PID), Compatible w/ Motorola Key Variable Loader					
	P25 CAI 360 MSEC				
Ex	External Key Loader, OTAR				
0	OFB-Output Feedback				
	Digital				
	Keyboard Command				
FIPS	6 46-3, FIPS 81, F FIPS 197	IPS 140-2,			
tion Cert	ification				
Class I, Division 2, Groups A, B, C, D					
Rating Accessories					
release b	utton & presence of key slot				
on bottor	m of battery)				
5893211B18, 5893211B24, 5893211B30, 5893211G18, 5893211G24, 5893211G30 (KEN- WOOD Viking Premium Speaker Mic w/options for black or high visibility & three cord lengths)					
	EC 529 IPC DIS C 529 IPC DIS 126 (CK (PID), 4 EX EX EX EX EX EX EX EX EX EX	505.5 506.5 507.5 509.5 509.5 509.5 510.5 510.5 510.5 510.5 510.5 514.6 512.5 529 IP67 529 IP67 512.5 Cedure ent superseded C, D, E, an (CKR), 126 Common Key R (CKR), 126 Physical (PID), Compatible w/ N Variable Load P25 CAI 360 M External Key Loadd OFB-Output Fee (CKR), 126 Physical (PID), Compatible w/ N Variable Load FIPS 46-3, FIPS 81, F FIPS 197 tor Certification FM Approvals (FM) FM Approvals (FM) FMA611 Class I, Division 2, Group 5875700373 (identified by release button & presence on bottom of battery) 5893211B18, 5893211B24, 5893211B30, 5893211G33 WOQD Viking P2remium 3 WOQD Viking P2remium 3			

Environmental Specifications

EF Johnson Technologies, Inc.

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