

EFJohnson's Viking® portfolio offers products catering to mission critical communication systems. Viking P25 subscribers offer a broad set of capabilities to fully meet the communication needs of our customer networks with interoperability, reliability, and maximum flexibility.

Viking® VP900 Multi-Band 7/800 MHz | VHF

The VP900 portable offers smarter visual and audio features that make first responder communications effortless while enhancing interoperability through Multi-Band operation.

EFJohnson's Viking VP900 Multi-Band radio establishes a new benchmark with best in class ruggedness, reliability, and superior audio. The Viking VP900 is a multi-band, multi-protocol, P25 Phase 2 ready radio equipped with industry leading audio, display, and advanced feature capabilities that meet the needs of police, fire, EMS, and other mission critical users.

EASY TO OPERATE

- Top display that maximizes viewing while in holster
- Backlit keypad and displays with controllable settings to • increase visibility in all lighting conditions
- Equipped with multiple visual indicators including battery • level and signal strength to check status at a glance
- Ergonomic knobs for easier operation with gloves

RUGGED & RELIABLE

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

SUPERIOR AUDIO QUALITY

- High performance speaker capable of 2.5W audio (1W rated) • for loud and clear sound across various noise environments
- Industry's best noise cancelling; does not require directional adjustment or software changes for different noise environments
- State of the art AMBE+2 version 1.6 vocoder using TIA's latest standards

P25 COMPLIANT

- Supports P25 CAI (Common Air Interface, Phase I & Phase II)
- Trunked and conventional system protocols •
- Over-the-Air rekeying (OTAR) functionality •







ADVANCED FEATURES

- Programmable soft keys
- Up to 2048 channels
- Text messaging
- Industry-standard encryption capabilities such as AES and DES-OFB (Single key DES-OFB included)
- Voice announcement
- Armada[®] programming software provides fleet management of radios as well as profile templates
- Enhanced radio security using software and hardware system keys
- Over-the-Air programming (OTAP) option enables you to program radios in the field (Works with any P25 data compliant network)
- Integrated GPS

MULTI-PROTOCOL/MULTI-MODE CAPABILITY

- Compatible with Motorola® System v 7.x, Motorola Astro® and SMARTNET® II/SmartZone®
- MDC-1200 and GE-Star signaling
- Channel selection (as opposed to zone selection available for different protocol/system selection)

ACCESSORY SUITE

Complete line of accessories including speaker mics, cases, batteries, antennas, and chargers



TYPICAL PERFORMANCE SPECIFICATIONS

Viking VP900 Multi-Band 7/800 MHz | VHF

GENERAL	700/800	VHF
Frequency Range	763-805 MHz 806-869 MHz	136-174 MHz
Channel Spacing	12.5 kHz, 25 kHz ¹	
Max Frequency Separation	Full Bandsplit	
FCC Type Acceptance Certification	ATH2425780 (Pending)	
Canada Type Certification	IC:933B-2425780 (Pending)	
FCC Emissions Designators	16K0F3E, 14K0F3E, 11K0F3E, 8K10F1D, 8K10F1E	11K0F3E, 8K10F1D, 8K10F1E
Input Voltage	7.4 V	
Dimensions (w/o antenna) HxWxD	7.5″ x 2.62″ x 1.75″	
Weight (w/o standard battery)	12.2 oz	
Case	Polycarbonate-black	
Temperature Range	-30°C to +60°C	
Vocoder/Noise Cancellation	AMBE+2 version 1.6 AMBE+2 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 5 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 (-30°C to +60°C)	1.5 (opm
Modulation Limiting 25 kHz Channels	5 k	Hz 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	45	dB ¹
FM Hum and Noise 12.5 kHz Channels	39	dB
Audio Distortion	3'	%

Receiver	700/800	VHF
Audio Power Output	1 W rated	Ł
Frequency Stability (-30°C to +60°C)	1.5 ppm	
Analog Mode Sensitivity: 12 dB SINAD	-119 dBn	ı
Digital Mode Sensitivity: 5% BER	-119 dBn	ı
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	40 dB ¹	
FM Hum and Noise 12.5 kHz Channels	34 dB	
Audio Distortion	3%	

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

Battery	Dimensions (HxWxD)	Weight	Approx. Life (5/5/90)
High Capacity Lithium Ion (3780 mA hours nominal)	6.5" x 2.3" x .78"	8.1 oz	10 hours

Specifications are measured per TIA 102.CAAA-C, TIA 102.CAAB-C and per TIA 603-D. All EFJohnson radios are made in the U.S.A.

Environmental Specifications		
Environment	Mil Spec	810G
	М	Р
Low Pressure	500.5	Ш
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
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



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