

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 II 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 provides 1W nominal audio • 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
- AMBE+2 version 1.6 vocoder using TIA's latest standards •

P25 COMPLIANT

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

ADVANCED FEATURES

- **Radio authentication**
- Programmable soft keys
- Up to 2048 channels
- Text messaging
- Industry-standard encryption capabilities such as AES and DES-OFB (Single key DES-OFB included)
- Customizable 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

- P25 Phase I & Phase II
- Compatible with Motorola® System v 7.x, Motorola Astro® and SMARTNET® II/SmartZone®
- MDC-1200 and GE-Star signaling •
- Mixed protocol zones (each channel in a zone can be from a different system type)

ACCESSORY SUITE

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





www.efjohnson.com



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'		
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)	12.4 oz		
Case	Polycarbonate - black or high visibility		
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 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 (-30°C to +60°C)	1.5	ppm		
Modulation Limiting 25 kHz Channels	5 k	Hz ¹		
Modulation Limiting 12.5 kHz Channels	2.5	2.5 kHz		
Emissions (Conducted/Radiated)	75 dBc			
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	1 W I	rated
Frequency Stability (-30°C to +60°C)	1.5	opm
Analog Mode Sensitivity: 12 dB SINAD	-121 dBm	-122 dBm
Digital Mode Sensitivity: 5% BER	-121 dBm	-122 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 dB1	
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 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.

 \mathbf{I} **Environmental Specifications** 810G Environment Mil Spec М Ρ Low Pressure 500.5 II High Temp. 501.5 Ш Low Temp. 502.5 Ш Temp. Shock 503.5 I-D Solar Radiation 505.5 Т Rain/Blown Rain 506.5 Т Humidity 507.5 I. Salt Fog 509.5 NA Dust and Sand 510.5 T. Vibration 514.6 Т Shock VI, V 516.6 Immersion 512.5 I.

M=Method, P=Procedure Also meets equivalent superseded C, D, E, and F standards. Immersion meets IEC 529 IP67

Encryption Option	ns 👘
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

All specifications are subject to change without notice. Please check our website for the latest revision. 03.11.14 © Copyright 2014 EFJohnson

