

KENWOOD



P25 Mission Critical

Viking® FIRE

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

The Viking FIRE portable offers smarter visual and audio features that make fire responder communications effortless while ensuring situational awareness through patented FIRESafe™ software features.

MULTI-PROTOCOL/MULTI-MODE CAPABILITY

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

EASY TO OPERATE

- Top display maximizes viewing while in a pouch or sling
- Voice announcement provides audio feedback for hands-free easy operation
- Standard high visibility housing
- Backlit keypad & displays for visibility in all lighting conditions
- Equipped with visual indicators including battery level & signal strength to check status at a glance
- Wide knobs for easier operation with fire gloves

ACCESSORIES

- Complete line of accessories including speaker mics, cases, batteries, antennas & chargers. *Download the accessory catalog at www.efjohnson.com/products/accessories.*

SUPERIOR AUDIO QUALITY

- High performance speaker provides 1W nominal audio for loud & clear sound across various noise environments
- Frequency based noise cancellation & audio enhancement; does not require directional adjustment or software changes for different noise environments
- AMBE+2 version 1.6 vocoder using TIA's latest standards

PATENTED FIRESAFE™ SOFTWARE

- Establishes Commander & Responder roles
- Evacuation Alert
- Visual & Audible Range Indicators
- Out of Range Alert
- P25 Auto Switch (analog/P25 automatic mode change)
- Com Check (out of range communication check)
- Set & Forget (single button lock function)

RUGGED & RELIABLE

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

ADVANCED FEATURES

- Available in VP400/VP600 (single band) or VP900 (multi-band)
- Up to 2048 channels
- Industry-standard encryption capabilities such as AES & DES-OFB (Single key DES-OFB included)
- ARC4™ software encryption; compatible with ADP™
- Speaker microphone disconnect alarm enhances safety
- Over-the-Air programming (OTAP) option enables you to program radios in the field (Works with any P25 data compliant network)
- Armada® programming software provides simple radio fleet management including profile templates & sorting/filtering by function or agency
- Over-the-Air rekeying (OTAR) functionality
- Customizable voice announcements



Viking® FIRE Portable SPECIFICATIONS


GENERAL	700/800	VHF	UHF
Frequency Range	762-806 MHz 806-870 MHz	136-174 MHz	380-470 MHz
Channel Spacing	12.5 kHz, 25 kHz ¹		
Max Freq. Separation	Full Bandsplit		
FCC Type Acceptance Certification	ATH2425770	ATH2425710	ATH2425720
Canada Type Certification	IC:933B-2425770	IC:933B-2425710	IC:933B-2425720
FCC Emissions Designators	16K0F3E, 14K0F3E, 11K0F3E, 8K10F1D, 8K10F1E	11K0F3E, 8K10F1D, 8K10F1E	11K0F3E, 8K10F1D, 8K10F1E
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-high visibility black casing is optional		
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	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 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	50 dB	56 dB ¹	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		
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 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%		

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

BATTERY	Dimensions (HxWxD)	Weight	Capacity
High Capacity Lithium Ion	6.5" x 2.3" x .78"	8.1 oz	3780 mAh

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

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

All specifications are subject to change without notice. Please check the website for the latest version.
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JVCKENWOOD Group

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