

P25 Mission Critical - Latin America

VIKING VP300

700/800 MHz • SN/SZ • P25 PHASE 1 & 2

With a top display and best in the industry audio performance, the VP300 single band portable offers smarter visual and audio features that make first responder communications effortless.









FEATURES

Choose operation in either:

Motorola SmartNet*/SmartZone* protocol --- OR -- P25 Phase 1 trunked/conventional & P25 Phase 2 trunked

- 1024 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
- Dual Shield design (internal metal housing & an external polycarbonate casing for exceptional durability)
- Available in three keypad options (none, limited, full)
- MDC-1200 & GE-Star signaling
- P25 Authentication
- · Text messaging
- Encryption
 - ARC4[™] software encryption; compatible w/Motorola ADP[™]
 - P25/TIA defined: AES-256
 - DES-OFB
 - VK5000 or Motorola KVL3000/KVL4000 Keyloaders

COMPATIBLE WITH MULTIPLE P25 SYSTEMS

- EFJohnson ATLAS® P25 System
- Motorola® Systems
 - Motorola Astro[®] 25 P25 Phase 1 & Phase 2
 - Motorola Astro® SmartNet®/ SmartZone®
- 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 accessory catalog at www.efjohnson.com/products/accessories.

We combine P25 design expertise with recognized quality & reliability along with smarter 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

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 VP300 Portable SPECIFICATIONS

Frequency Range Channel Spacing Channel Spacing Max Free, Separation Max Free, Separation FCC Spree Keepane Certification Cenada Type Certification Cenada Type Certification FCC Emissions Designaturs FCC Emissions Emissions Conduction and audio enhancement FCC Emissions Conducted Radiations FCC Emissions FCC Emissions FCC Emissions Conducted Radiations Amissions Conducted Radiations FCC Emissions Conducted R	GENERAL	700/800	
Channel Spacing 12.5 Hz, 25 Hz² Max Feeç, Separation Fell Bandspilt FCC Upsek Congrance Certification AITM2427770 Canada Type Certification I.59388-3425770 FCC Ensistence Designators 16M0781, 14M0781, 11M0781, 8X10F18, 8X10F18, 8X10F18 Input Voltage 7.4V Dimensions 7.5° x 2.62° x 1.75° Wedgely 12.6 oz Case Polycarbonate - black Temperature Range -30° to +60°C Wooder/Miscle Cancellation AM88 ≥ 2 western 1.6 Truckloce* note cancellation and audio enhancement Programmable Front Display Backlit LCO Status Enrice, date, signal strength, buttery levell, inon or text display options Up to 4 rens of 12 character lines Programmable Top Display Backlit LCO Status Enrice, date, signal strength, buttery levell, inon or text display options Up to 4 rens of 12 character lines TRANISMITTER 700/800 TRANISMITTER 700/800 TRANISMITTER 700/800 TRANISMITTER 700/800 TRANISMITTER 700/800 TRANISMITTER 700/800 TRANISMITTER	Frequency Range		
Max Freq. Separation Full Bandspilt	Channel Spacing		
Emissions Designators			
Emissions Designators	FCC Type Acceptance Certification		ATH2425770
Input Voltage 7.4V Input Voltage 7.5°x 2.62°x 1.75° (w/o antenna) HAWXD (w/o antenna) HAWXD (w/o antenna) HAWXD (w/o sandard battery) Case Polycarbonate-black Imperature Range - 30°C to +60°C Vecoder/Noise Cancellation AMBE+2 version 1.6 True/Noice** noise cancellation and audio enhancement Programmable Front Display Backlit LCD Status Bar (time, date, signal strength, battery level), con or text display options Up to 4 vows of 12 character lines Programmable Top Display Backlit LCD Status Bar (time, date, signal strength, battery level) or text display options Up to 4 vows of 12 character lines TRANSMITTER 700/800 RF Prover Output 2.5/3 W Frequency Stability (30°C to +60°C) 1.5 ppm Modulation Limiting 2.5 Hz Channels Frequency Stability (30°C to +60°C) 1.5 ppm Modulation Limiting 2.5 Hz Channels FM Hum and Noise 2.5 Hz Channels FM Hum and Noise 2.5 Hz Channels Madio Distortion 19% RECEIVER 700/800 RECEIVER 700/800 Receiver Output 1.5 ppm Analog Mode Sensitivity: 12 dB SIMAD 1.5 ppm Programmable Simblity (30°C to +60°C) 1.5 ppm Digital Mode Sensitivity: 12 dB SIMAD 1.20 dBm Prequency Stability (30°C to +60°C) 1.5 ppm Receiver Output 1.5 ppm Recei			IC:933B-2425770
Dimensions (w/o antana) HWWD 12.6 oz	FCC Emissions Designators	10	5KOF3E, 14K0F3E, 11K0F3E, 8K10F1D, 8K10F1E, 8K10F7E
Weight (w/o antenna) HAWND Weight (w/o standard battery) Case Polycarbonate - black Temperature Range - 30°C to +60°C Vocader/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), ion or text display options Up to 6 visor 012 chanacter lines **Programmable Top Display Backlit LCD Status Bar (time, date, signal strength, battery level) or text display options Up to 6 visor 012 chanacter lines **TRANSMITTER** **TOO/800** **REP Nover Output 2.5/3 W **Frequency Stability (-30°C to +60°C) 1.5 ppm **Modulation Limiting 25 kHz Channels **Modulation Limiting 12.5 kHz Channels **Phil Hum and Noise 25 kHz Channels **Phil Hum and Noise 25 kHz Channels **Audio Power Output 1.1 had 1.5 ppm **Audio Power Output 1.1 had 1.5 ppm **Audio Power Output 1.1 had 1.5 ppm **Analog Mode Sensitivity: 12 dis SINAD - 120 dBm **Digital Mode Sensitivity: 12 dis SINAD - 120 dBm **Digital Mode Sensitivity: 25 kHz Channels **Selectivity: 25 kHz	Input Voltage		7.4V
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Programmable Front Display Backlit LCO Status Bar (time, date, signal strength, battery level), icon or text display options Up to 4 rows of 12 character lines TRANSMITTER TOO/8800 RF Power Output 2.5/3 W Frequency Stability (-30°C to +60°C) 1.5 ppm Modulation Limiting 12.5 kHz Channels Emissions (Conducted/Radiated) 75 dBc Audio Response 1.1, -3 dB FM Hum and Noise 12.5 kHz Channels 50 dB FM Hum and Noise 12.5 kHz Channels 1.5 ppm RECEIVER 700/800 RECEIVER 700/800 Receiver Output 1.5 ppm Analog Mode Sensitivity. 12 dB SINAD 1.20 dBm Digital Mode Sensitivity. 12 dB SINAD 7.5 dB Selectivity: 12.5 kHz Channels 60 dB Intermodulation 7.5 dB Spurious & Image Rejection 80 dB FM Hum and Noise 25 kHz Channels 7.5 dB Spurious & Image Rejection 80 dB FM Hum and Noise 12.5 kHz Channels 7.5 dB Spurious & Image Rejection 80 dB FM Hum and Noise 12.5 kHz Channels 7.5 dB Spurious & Image Rejection 80 dB FM Hum and Noise 12.5 kHz Channels 7.5 dB Spurious & Image Rejection 80 dB FM Hum and Noise 12.5 kHz Channels 7.5 dB Spurious & Image Rejection 80 dB FM Hum and Noise 12.5 kHz Channels 7.5 dB FM Hum and Noise 12.5 kHz Channels 7.5 dB FM Hum and Noise 12.5 kHz Channels 7.5 dB FM Hum and Noise 12.5 kHz Channels 7.5 dB FM Hum and Noise 12.5 kHz Channels 7.5 dB	Temperature Range		-30°C to +60°C
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 TOO/8800 RF Power Output 2.5/3 W Frequency Stability (-30°C to +60°C) 1.5 ppm Modulation Limiting 12.5 kHz Channels Modulation Limiting 12.5 kHz Channels Finisions (Conducted/Radiated) 75 dBc Audio Response 11, -3 dB FM Hum and Noise 12.5 kHz Channels 50 dB FM Hum and Noise 12.5 kHz Channels 196 BER RECEIVER 700/8800 RECEIVER 700/8800 Adio Power Output 1 Wrated 2.5 W Max Frequency Stability (-30°C to +60°C) 1.5 ppm Analog Mode Sensitivity: 12 dB SINAD 1-120 dBm Digital Mode Sensitivity: 5% BER 1-120 dBm Digital Mode Sensitivity: 5% kHz Channels 60 dB Intermodulation 75 dB Spurious & Image Rejection 80 dB FM Hum and Noise 12.5 kHz Channels 60 dB FM Hum and Noise 25 kHz Channels 50 dB FM Hum and Noise 12.5 kHz Channels 60 dB FM Hum and Noise 12.5 kHz Channels 50 dB FM Hum and Noise 12.5 kHz Channels 50 dB FM Hum and Noise 12.5 kHz Channels 50 dB FM Hum and Noise 12.5 kHz Channels 50 dB FM Hum and Noise 12.5 kHz Channels 50 dB FM Hum and Noise 12.5 kHz Channels 50 dB FM Hum and Noise 12.5 kHz Channels 50 dB	Vocoder/Noise Cancellation	AMBE+2 version 1.6 TrueVoice™ noise cancellation and audio enhancement	
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FM Hum and Noise 12.5 kHz Channels Audio Distortion RECEIVER 700/800 Audio Power Output 1 W rated 2.5 W Max Frequency Stability (-30°C to +60°C) Analog Mode Sensitivity: 12 dB SINAD Digital Mode Sensitivity: 5% BER -120 dBm Selectivity: 25 kHz Channels Felectivity: 12.5 kHz Channels Selectivity: 12.5 kHz Channels Selectivity: 12.5 kHz Channels FM Hum and Noise 25 kHz Channels FM Hum and Noise 12.5 kHz Channels FM Hum and Noise 12.5 kHz Channels 44 dB			+1,-3 dB
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RECEIVER 700/800 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 Digital Mode Sensitivity: 5% BER -120 dBm Selectivity: 25 kHz Channels 75 dB¹ 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	FM Hum and Noise 12.5 kHz Channels		44 dB
Audio Power Output 1 Wrated 2.5 W Max Frequency Stability (-30°C to +60°C) 1.5 ppm Analog Mode Sensitivity: 12 dB SINAD -120 dBm Digital Mode Sensitivity: 5% BER -120 dBm Selectivity: 25 kHz Channels 75 dB¹ 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			1%
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Selectivity: 25 kHz Channels 75 dB¹ 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			-120 dBm
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	Digital Mode Sensitivity: 5% BER		-120 dBm
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	Selectivity: 25 kHz Channels		75 dB ¹
Spurious & Image Rejection 80 dB FM Hum and Noise 25 kHz Channels 50 dB¹ FM Hum and Noise 12.5 kHz Channels 44 dB	Selectivity: 12.5 kHz Channels		60 dB
FM Hum and Noise 25 kHz Channels 50 dB1 FM Hum and Noise 12.5 kHz Channels 44 dB	Intermodulation		75 dB
FM Hum and Noise 12.5 kHz Channels 44 dB	Spurious & Image Rejection		80 dB
	FM Hum and Noise 25 kHz Channels		50 dB1
Audio Distortion 1.5%	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.

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 1		
Environment	Mil Spec	810G
	М	Р
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 S29 IP67		

Encryption Options	FIPS VALIDATED 140 2
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

HAZARDOUS LOCATION CERTIFICATION		
Certification Lab	FM Approvals (FM)	
Standard Applied	FM3611	
Classification Rating	Class I, Division 2, Groups A, B, C, D	
Approved Battery	5875700373 (identified by lack of release button & presence of key slot on bottom of battery)	
Approved Speaker Microphones	5893211B18, 5893211B24, 5893211B30, 5893211G18, 5893211G24, 5893211G30 (KENWOOD Viking Premium Speaker Mic w/ options for black or high visibility & three cord lengths)	

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