

KENWOOD

P25 Mission Critical

VIKING VM7000

VHF • UHF • 700/800 MHz • SN/SZ • P25 PHASE 1 & 2

With the **VM7000 All-Band Multi-Deck Mobile**, you can simultaneously receive and display up to four bands so you never miss a call. The “select” and “unselect” speakers give you the option for audio control similar to a dispatch console. The **KENWOOD Viking®** is the industry’s only mobile platform providing **TrueVoice™** noise cancellation.



FEATURES

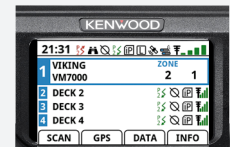
- Mixed protocol operation (P25 Phase 1 & 2 Trunking, P25 Conventional, SN/SZ, FM Analog)
- 1024 channels (2048 option)
- Mixed protocol zones
- P25 Authentication (Link Layer Authentication)
- P25 IP packet data
- P25 GPS data (built in GPS)¹
- MDC-1200 & GE-Star signaling
- P25 Conventional vote scan
- Single or Dual Remote Mount configuration
- External speaker
- Encryption
 - ARC4™ software encryption; compatible with Motorola ADP™
 - P25/TIA defined: AES-256
 - DES-OFB
 - Over-the-Air-Rekeying (OTAR)
 - VK5000 or Motorola KVL3000/KVL4000 Keyloaders

¹Refer to the Viking VM7000 operating manual for detailed requirements & conditions for proper GPS operation.

FULL-FEATURED CONTROL HEAD

- Larger display - 2.75" (36 x 60 mm)
- Resolution of 400 x 240 pixels
- Viewing angle of 140°
- Multi-color LCD + TX/RX (green/red) LEDs
- Illumination sensor for auto brightness¹
- D-Pad & more PF keys, dedicated emergency key & channel/volume control knobs
- Replaceable A/B/C button labels
- User selectable themes (8 themes available)
- Day & night display options

¹Future availability



Day - High Contrast



Night - High Contrast

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 your radios in a group rather than one at a time. One template programs both portables & mobiles. Supports direct computer connection, Over-the-Air Programming (OTAP), or Over-the-Intranet Programming (OTIP).



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.



Making Safe, Simple™

VM7000 Mobile SPECIFICATIONS

GENERAL		VHF	UHF	700/800 MHz
Frequency Range		136-174 MHz	Type 1: 450-520 MHz Type 2: 380-470 MHz	RX:763-776,851-870 MHz TX:763-776,793-806,806-825,851-870 MHz
Max. Channels Per Radio		1024 (2048 option)		
Number of Zones		255		
Max. Channels Per Zone		255		
Channel Spacing	Analog	12.5/15/20/25*/30* kHz	12.5/25* kHz	12.5/25 kHz
	Digital	12.5 kHz	12.5 kHz	12.5 kHz
Power Supply		13.6V DC ±15 %		
Current Drain	Standby	1.2 A		
	RX	3.0 A		
	TX	14 A		
Operating Temperature		-22 °F to +140 °F (-30 °C to +60 °C)		
Frequency Stability		±1.5 ppm		
Dimensions (W x H x D) RF Deck + (not including KCH-20RV)		6.73 x 1.89 x 7.24 in. (171 x 48 x 184 mm)		6.73 x 1.89 x 8.03 in. (171 x 48 x 204 mm)
Weight - RF Deck + (not including KCH-20RV)		3.33 lbs (1.51 kg)		3.77 lbs (1.71 kg)
RECEIVER		VM7730	VM7830	VM7930
Sensitivity	P25 Digital (5% BER)	0.25 µV		
	Analog (12 dB SINAD)	0.25 µV		
Selectivity	P25 Digital	60 dB		
	Analog @ 12.5 kHz	60 dB		60 dB
	Analog @ 25 kHz	75 dB		75 dB
Intermodulation		80 dB		
Spurious Rejection		87 dB		85 dB
Audio Distortion		2%		
Audio Output Power		4 W/4 Ω		
TRANSMITTER		VM7730	VM7830	VM7930
RF Power Output Power		5W/50W	5W/45W – (Type 1: 450-485 MHz) 5W/40W – (Type 1: 485-520 MHz) 5W/40W – (Type 2: 380-470 MHz)	2W/30W (700 MHz) 2W/35W (800 MHz)
Spurious Emission		-73 dB	-75 dB	-80 dB
FM Hum & Noise	Analog @ 12.5 kHz	45 dB		40 dB
	Analog @ 25 kHz	50 dB		45 dB
Audio Distortion		2%		
Emission Designator		VM7730/7830: 16K0F3E, 11K0F3E, 8K10F1E, 8K10F1D, 8K10F1W VM7930: 16K0F3E, 14K0F3E, 11K0F3E, 8K10F1E, 8K10F1D, 8K10F1W		

MIL STANDARD	810C	810D	810E	810F	810G	MIL STANDARD	810C	810D	810E	810F	810G
Low Pressure	500.1/I	500.2/I, II	500.3/I, II	500.4/I, II	500.5/I, II	Humidity	507.1/I, II	507.2/II, III	507.3/II, III	507.4	507.5/II
High Temperature	501.1/I, II	501.2/I, II	501.3/I, II	501.4/I, II	501.5/I, II	Salt Fog	509.1/I	509.2/I	509.3/I	509.4	509.5
Low Temperature	502.1/I	502.2/I, II	502.3/I, II	502.4/I, II	502.5/I, II	Dust	510.1/I	510.2/I	510.3/I	510.4/I, III	510.5/I
Temp. Shock	503.1/I	503.2/I	503.3/I	503.4/I, II	503.5/I	Vibration	514.2/VIII, X	514.3/I	514.4/I	514.5/I	514.6/I
Solar Radiation	505.1/I	505.2/I	505.3/I	505.4/I	505.5/I	Shock	516.2/I, V	516.3/I, V	516.4/I, V	516.5/I, V	516.6/I, V
Rain	506.1/I, II	506.2/I, II	506.3/I, II	506.4/I, III	506.5/I, III						

INTERNATIONAL PROTECTION STANDARD

Dust & Water IP54, IP55¹

¹IP54: RF Deck of the mobile radio; IP55: Remote Control Head for the mobile radio.

*25 and 30 kHz are not included in the models sold in the USA or US territories.
Analog measurements made per TIA 603 and specifications shown are typical. Digital measurements made per TIA 102CAAA and specifications shown are typical.

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