

VM7000

VHF (with High Power and Low Band High Power² options) ·
 UHF-Low · UHF-High · 700/800 MHz
 Analog · P25 Phase 1 & 2 · Viking16

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. KENWOOD Viking® is the industry's only mobile platform providing TrueVoice™ noise cancellation.

Features

- Mixed protocol operation (P25 Phase 1 & 2 Trunking, P25 Conventional, Viking16, FM Analog)
- 1024 channels (2048 and 4096 options)
- 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
- Over-the-Internet-Programming (OTIP)
- Encryption
 - ARC4™ software encryption; compatible with Motorola ADP™
 - DES-OFB
 - AES-256 (FIPS 140-2) Single and Multi-Key
 - Over-the-Air-Rekeying (OTAR)
 - VK5000 or Motorola KVL3000/KVL4000 Keyloaders
- WiFi
- Instant Recording Replay (IRR)
- Voice Recording

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

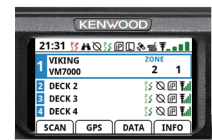
Accessories

Complete line of accessories including microphones, speakers & antennas.
 Download the accessory catalog at
www.efjohnson.com/products/accessories.



Enhanced 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
- 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



Day - High Contrast



Night - High Contrast

Compatible With P25 Systems²

- ATLAS® P25 Phase 1 and Phase 2 System
- Motorola Astro® 25 - P25 Phase 1 & Phase 2
- Harris VIDA® - P25 Phase 1 & Phase 2
- Airbus (formerly Cassidian) VESTA™ Radio - P25 Phase 1 & Phase 2

We combine P25 design expertise with recognized quality & reliability along with advanced 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 either a direct computer connection, Over-the-Air Programming (OTAP), or Over-the-Internet 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.

VM7000 Mobile Specifications

General		VHF Low Band (110W) ²	VHF (110W)	VHF	UHF	700/800 MHz	
Frequency Range		39-50 MHz	136-174 MHz	136-174 MHz	Type 1: 450-520 MHz Type 2: 380-470 MHz	RX: 762-776, 851-870 MHz TX: 762-776, 792-806, 806-825, 851-870 MHz	
Max. Channels Per Radio		1024 (2048 and 4096 options)					
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	Not applicable			12.5 kHz		
Power Supply		13.4 V DC ±15 %			13.6 V DC ±15 %		
Current Drain	Standby	1.3 A			1.2 A		
	RX	3.3 A			3.0 A		
	TX	28 A			14 A		
Operating Temperature		-22 °F to +140 °F (-30 °C to +60 °C)					
Frequency Stability		±1.0 ppm			±1.5 ppm		
Dimensions (W x H x D) RF Deck + Front Head Unit (not including KCH-20RV)		7.01 x 2.56 x 13.84 in. (178 x 65 x 351.5 mm)			6.73 x 1.89 x 7.24 in. (171 x 48 x 184 mm)		
Weight - RF Deck + Front Head Unit (not including KCH-20RV)		12.1 lbs (5.5 kg)			3.31 lbs (1.5 kg)		
Weight - RF Deck + Front Head Unit (not including KCH-20RV)		12.1 lbs (5.5 kg)			3.75 lbs (1.7 kg)		
Receiver		VM7630H	VM7730H	VM7730	VM7830	VM7930	
Sensitivity	P25 Digital (5% BER)	Not applicable	-119 dBm (0.25 µV)				
	Analog (12 dB SINAD)	-119 dBm (0.25 µV)					
Selectivity	P25 Digital	Not applicable	60 dB				
	Analog @ 12.5 kHz	60 dB					
	Analog @ 25 kHz	75 dB					
Intermodulation		80 dB					
Spurious Rejection		85 dB				87 dB	
Audio Distortion		3%			2%		
Audio Output Power		12 W/4 Ω (External Audio Output)			4 W/4 Ω (Remote Control Head: 3 W/4 Ω)		
Transmitter		VM7630H	VM7730H	VM7730	VM7830	VM7930	
RF Power Output Power		25W-110W			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		-80 dB			-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		VM7730H/7730/7830: 16K0F3E, 11K0F3E, 8K10F1E, 8K10F1D, 8K10F1W VM7930: 16K0F3E, 14K0F3E, 11K0F3E, 8K10F1E, 8K10F1D, 8K10F1W					

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
High Temperature	501.1/ I, II	501.2/ I, II	501.3/ I, II	501.4/ I, II	501.5/ I, II
Low Temperature	502.1/ I	502.2/ I, II	502.3/ I, II	502.4/ I, II	502.5/ I, II
Temp. Shock	503.1/ I	503.2/ I	503.3/ I	503.4/ I, II	503.5/ I
Solar Radiation	505.1/ I	505.2/ I	505.3/ I	505.4/ I	505.5/ I
Rain	506.1/ I, II	506.2/ I, II	506.3/ I, II	506.4/ I, III	506.5/ I, III

Mil Standard	810C	810D	810E	810F	810G
Humidity	507.1/ I, II	507.2/ II, III	507.3/ II, III	507.4	507.5/ II
Salt Fog	509.1/ I	509.2/ I	509.3/ I	509.4	509.5
Dust	510.1/ I	510.2/ I	510.3/ I	510.4/ I, III	510.5/ I
Vibration	514.2/ VIII, X	514.3/ I	514.4/ I	514.5/ I	514.6/ I
Shock	516.2/ I, V	516.3/ I, V	516.4/ I, V	516.5/ I, V	516.6/ I, V

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

International Protection Standard

Dust & Water IP54, IP55**
 *IP54: RF Deck of the mobile radio; IP55: Remote Control Head for the mobile radio.

*25/30 kHz in VHF/UHF Bands are not included in the models sold in the USA or US territories. Analog measurements made per TIA 603 and specifications shown are typical.
²VHF Low Band High Power is analog mode only, multi-deck configuration only.

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