



VM5000

VHF · UHF (High & Low) · 700/800 MHz P25 Phase 1 & 2 · Viking16

With uncompromised quality and performance, the VM5000 has built-in speakers to take the complexities out of mission-critical communications.

Features

- Mixed protocol operation (P25 Phase 1 & 2 Trunking, P25 Conventional, Viking16, FM Analog)
- 1024 channels
- Mixed protocol zones
- P25 Authentication (Link Layer Authentication)
- P25 IP packet data
- GPS AVL data (built in GPS)¹
- MDC-1200 & GE-Star signaling
- Analog & P25 Conventional vote scan
- Dash mount (KCH-19 control head only)
- Remote mount
- Dual control heads
- Internal or external speaker
- Fixed control station
- WiFi (remote mount configuration only)
- Bluetooth (Future)
- Instant Recording Replay (IRR)
- Voice Recording
- Text Messaging
- Bluetooth Low Energy
- · Custom Transmit Power Levels
- Encryption
 - · ARC4™ software encryption; compatible w/Motorola ADP™
 - · DES-OFB
 - AES-256 (FIPS 140-2) Single and Multi-Key
 - · Over-the-Air-Rekeying (OTAR)

¹Refer to the Viking VM5000 operating manual for detailed requirements & conditions for proper GPS operation.

Accessories

Complete line of accessories including microphones, speakers & antennas. Download the accessory catalog at

https://info.efjohnson.com/viking-accessory-catalog/

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 direct computer connection, Over-the-Air Programming (OTAP), or Over-the-Internet Programming (OTIP).



Basic Control Head

- Resolution of 422 x 154 pixel
- Viewing angle of 140°
- User selectable themes (8 themes available)
- Day & night display options



Day - High Contrast



Night - High Contrast

Compatible With P25 Systems

- 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



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.

VM5730/5830/5930 Mobile Specifications

General					VM5730				VM5830)		V	M5930		
Frequency Range			136-174 MHz					Type 1: 450-520 MHz Type 2: 380-470 MHz					76, 851-870 MHz 06, 806-825, 851-870 MHz		
Max. Channe	els Per Radio)					I		1024						
Number of Z	Zones								255		,				
Max. Channe	els Per Zone								255						
Channel Analog		12.5/15/20/25*/30* kHz 12.5/25* kHz								12.	5/25 kHz				
Spacing	Digital				12.5 kHz				12.5 kHz			1	2.5 kHz		
Power Supply		13.6 V DC ±15 %							'						
	Standby		0.45 A												
Current Drain	RX		2.3 A												
Dialli	TX		13 A												
Operating Temperature			-22 °F to +140 °F (-30 °C to +60 °C)												
Frequency S [-22 °F to +1 (-30 °C to +6 +77 °F Ref. (I40 °F 60 °C),	±1.0 ppm													
Dimensions (W x H x D) Radio w/Control Head,			6.73 x 1.89 x 6.93 in. (171 x 48 x 176 mm)									6.73x1.89x7.72 in. (171.0 x 48.0 x 196 mm)			
Projections not Included															
Receiver	Do = 5: 1				VM5730				VM5830)			VM5930		
Sensitivity	P25 Digita (5% BER)	I		-119 dBm (0.25 μV)											
	Analog (12 dB SIN		-119 dBm (0.25 μV)												
Selectivity	P25 Digital		60 dB												
	Analog @ 12.5 kHz		60 dB												
Analog @ 25 kHz		75 dB										75 dB			
Intermodulat									80 dB						
Spurious Rej		85 dB									87 dB				
Audio Distortion				2%											
Audio Output Power			4 W/4 Ω (Remote Control Head: 3 W/4 Ω)												
Modulation								FM,	C4FM, H-I	DQPSK					
Transmitter			VM5730 VM5830									VM5930			
RF 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 Em	ourious Emission		-73 dB -75 dB								-80 dB				
FM Hum &	Analog @ 12.5 kHz Analog @ 25 kHz			45 dB								40 dB			
Noise			50 dB									45 dB			
Audio Distor	rtion								2%						
Emission De	esignator										8K10F1D, 8K , 8K10F1D, 8				
Modulation			FM, C4FM, H-CPM												
			810E 500.3/ I, II	810F 500.4/ I, II	810G 500.5/	Mil Standard Humidity	810C 507:1/ I, II	810D 507.2/ II, III	810E 507.3/ II, III	810F 507.4	810G 507.5/ II	Encryption Option	YALIDATED 140 2		
			501.3/ I, II	501.4/ I, II	I, II 501.5/	Salt Fog	509.1/ I	509.2/ I	509.3/ I	509.4	509.5	Supported Encryption	AES, DES-OFB, ARC4		
Temperature Low			502.3/ I, II	501.4/ I, II	I, II 502.5/	Dust Vibration	510.1/ I 514.2/ VIII, X	510.2/ I 514.3/ I	510.3/ I 514.4/ I	510.4/ I, III 514.5/ I	510.5/ I 514.6/ I	Encryption Key/ Radio	126 Common Key Reference (CKR), 126 Physical Identifier, (PID), Compatible w/ Motorola Ke Variable Loader		
Temperature Temp. Shock	503.1/ I 50)3.2/ I	503.3/ I	503.4/ I, II	l, II 503.5/ I	Shock	516.2/ I, V	516.3/ I, V	516.4/ I, V	516.5/ I, V	516.6/ I, V	Encryption Frame			
Solar			505.3/ I	505.4/ I	505.5/ I							Encryption Frame Re-sync Interval	P25 CAI 360 MSEC		
Radiation Rain	506.1/ I, II 50	06.2/ I, II	506.3/ I, II	INTERNATIONAL PROTECTION STANDARD 3/ I, II								Encryption Keying	External Key Loader, OTAR		
- GIII	550.17 1, 11 50	- J. L. 1, 11	500,0/ I, II	0.37 I, II 500.47 I, III 500.57 Dust & IP54, IP551 I, III Water							Mode Encryption Type	OFB-Output Feedback Digital			
						1P54: RF Deck o	f the mobile ra	dio; IP55: Rem	ote Control He	ead for the mo	bile radio.	Key Erasure	Keyboard Command		
												Standards	FIPS 46-3, FIPS 81, FIPS 140-2, FIPS 197		

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