

VP6000

VHF · UHF · 700/800 MHz
P25 Phase 1 & 2 · Viking16

The KENWOOD Viking 6000 series portable is specifically designed for today's public safety agencies with advanced features and ergonomics to meet the first responder's mission critical operational needs.

Features

- Mixed protocol operation (P25 Phase 1 & 2 Trunking, P25 Conventional, Viking16, FM Analog)
- Mixed protocol zones (each channel in a zone can be from a different system)
- 1024 channels (2048 and 4096 options)
- Public safety ergonomics: flare grip for control, large glove friendly knobs, large emergency button
- 1 Watt audio output for high noise environments
- Voice annunciation & custom announcement creation
- Fully ruggedized - IP67/68 & MIL-STD-810 C/D/E/F/G
- Full key models (w/ numeric keypad)
- Built-in GPS receiver/antenna for enhanced awareness¹
- MDC-1200 & GE-Star signaling
- P25 Authentication
- Bluetooth®
- Man Down
- Instant Recording Replay (IRR)
- Voice Recording
- Encryption
 - ARC4™ software encryption; compatible w/Motorola ADP™
 - P25/TIA defined: AES-256
 - DES-OFB
 - Over-the-Air-Rekeying (OTAR)

¹Refer to the Viking VP6000 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.

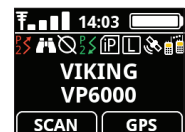


User Selectable Color Themes

- Multi-line text
- Top flip display changes text orientation for viewing while in holster
- Multiple visual indicators including battery health & signal strength
- Backlight changes for event identification
- Day & night user selectable display options (8 themes available)



Day - High Contrast



Night - High Contrast

Compatible with Multiple P25 Systems

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

VP6230/6330/6430 Portable Specifications

| General | | VP6230 | VP6330 | VP6430 |
|--|----------------------|---|--|---|
| Frequency Range | | 136-174 MHz (FCC ID K44431400) | Type 1: 450-520 MHz (FCC ID K44431500) Type 2: 380-470 MHz (FCC ID K44431501) | RX: 763-776, 851-870 MHz TX: 763-776, 793-806, 806-825, 851-870 MHz (FCC ID ALH442000) |
| 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 | 12.5 kHz | 12.5 kHz | 12.5 kHz |
| Power Supply | | 7.5 V DC ±20% | | |
| Operating Temperature | | -22 °F to +140 °F (-30 °C to +60 °C) | | |
| Frequency Stability | | ±1.5 ppm | ±1.5 ppm | ±1.5 ppm |
| Case | | Polycarbonate - black or high visibility (additional fee) | | |
| Dimensions W(Top/Bot- tom) x H x D Projections not included | KNB-L2 (2,600 mAh) | 2.76/2.28 x 5.90 x 1.73 in. (70.0/58.0 x 149.8 x 44.0 mm) | | |
| | KNB-L3 (3,400 mAh) | 2.76/2.28 x 5.90 x 1.94 in. (70.0/58.0 x 149.8 x 49.4 mm) | | |
| Weight with Battery | KNB-L2 (2,600 mAh) | 171 oz (484.5 g) | | |
| | KNB-L3 (3,400 mAh) | 18.6 oz (527.5 g) | | |
| Receiver | | VP6230 | VP6330 | VP6430 |
| Sensitivity | P25 Digital (5% BER) | -119 dBm | | |
| | Analog (12 dB SINAD) | -119 dBm | | |
| Selectivity | P25 Digital | 60 dB | | |
| | Analog @ 12.5 kHz | 65 dB | | |
| | Analog @ 25 kHz | 73 dB | | |
| Intermodulation | | 73 dB | | 75 dB |
| Spurious Rejection | | 80 dB | 75 dB | |
| Audio Distortion | | 2.5% | | |
| Audio Output Power | | 500 mW/8 Ω (3% Distortion)/1,000 mW/8 Ω (5% Distortion) | | |
| Transmitter | | VP6230 | VP6330 | VP6430 |
| RF Output Power | | 1W/6W | 1W/5W | 1W/3W |
| Spurious Emission | | 70 dB | | |
| FM Hum & Noise | Analog @ 12.5 kHz | 40 dB | | |
| | Analog @ 25 kHz | 45 dB | | |
| Audio Distortion | | 2% | | |
| Emission Designator | | 16K0F3E, 11K0F3E, 8K10F1E, 8K10F1D, 8K10F1W | | 16K0F3E, 14K0F3E, 11K0F3E, 8K10F1E, 8K10F1D, 8K10F1W |

| MIL Standard | 810G |
|------------------|---------------|
| Low Pressure | 500.5/ I, II |
| High Temperature | 501.5/ I, II |
| Low Temperature | 502.5/ I, II |
| Temp. Shock | 503.5/ I |
| Solar Radiation | 505.5/ I |
| Rain | 506.5/ I, III |
| Humidity | 507.5/ II |
| Salt Fog | 509.5 |
| Dust | 510.5/ I |
| Vibration | 514.6/ I |
| Immersion | 512.5/ I |
| Shock | 516.6/ I, IV |

| 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 |

Hazardous Location Standard

| | |
|-----------------------|--|
| Certification Lab | CSA Group |
| Standard Applied | ANSI/TIA 4950-A-2014, UL913 5th Edition & ANSI/ISA-12.12.01-2011 |
| Classification Rating | Intrinsically Safe: Classes I, II, III, Division 1, Groups D, E, F, G Non-incendive: Class I, Division 2, Groups A, B, C, D |

Accessories

| | |
|------------------------------|-----------|
| Approved Battery | KNB-LS7 |
| Approved Speaker Microphones | KMC-54WDM |

International Protection Standard

| | |
|--------------|-----------------|
| Dust & Water | IP54, IP55 |
| Immersion | IP67**, IP68*** |



GLOBAL STRATEGIES

Phone: 570.696.3100

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Shavertown, PA. 18708

* 25 and 30 kHz are not included in the models sold in the USA or US territories.

** IP67/IP68 - Must have the Speaker Mic UDC connector or UDC protector connected.

*** IP68 = 1m/2H

Specifications shown are typical and subject to change without notice Please check the website for the latest version.

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