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)
JF-12 certification
2048 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 announcement & custom announcement creation
Fully ruggedized - IP67 & MIL-STD-810 C/D/E/F/G
Dual Shield design (internal metal housing & an external polycarbonate casing for exceptional durability)
Available in two keypad options (limited and full)
MDC-1200 & GE-Star signaling
P25 Authentication
Instant Recording Replay (IRR)
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

Refer to the Viking VPx00 operating manual for detailed requirements & conditions for proper GPS operation.

Feature

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

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 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.
# Viking VP600 Portable Specifications

## General

<table>
<thead>
<tr>
<th>Feature</th>
<th>UHF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Range</td>
<td>380-470 MHz</td>
</tr>
<tr>
<td>Channel Spacing</td>
<td>12.5 kHz, 25 kHz</td>
</tr>
<tr>
<td>Max Freq. Separation</td>
<td>Full Bandsplit</td>
</tr>
<tr>
<td>FCC Type Acceptance</td>
<td>ATH2425720</td>
</tr>
<tr>
<td>Canada Type Certification</td>
<td>IC:933B-24275720</td>
</tr>
<tr>
<td>FCC Emissions Designators</td>
<td>1KOFIE, 8K1OFID, 8K1OFIE, 8K1OFIE</td>
</tr>
<tr>
<td>Input Voltage</td>
<td>7.4 V</td>
</tr>
<tr>
<td>Dimensions (w/o antenna)</td>
<td>7.5&quot; x 2.62&quot; x 1.75&quot; (193 cm x 6.7 cm x 4.4 cm)</td>
</tr>
<tr>
<td>Weight (w/o standard battery)</td>
<td>12.6 oz (357.2 g)</td>
</tr>
<tr>
<td>Case</td>
<td>Polycarbonate - black or high visibility (additional fee)</td>
</tr>
<tr>
<td>Temperature Range</td>
<td>-22°F to +140°F (-30°C to +60°C)</td>
</tr>
<tr>
<td>Vocoder/Noise Cancellation</td>
<td>AMBE+2 version 1.6</td>
</tr>
<tr>
<td>Programmable Front Display</td>
<td>Backlit LCD</td>
</tr>
<tr>
<td>Programmable Top Display</td>
<td>Backlit LCD</td>
</tr>
<tr>
<td></td>
<td>Up to 4 rows of 12 character lines</td>
</tr>
</tbody>
</table>

## Transmitter

### UHF

- **RF Power Output**: 4 W
- **Frequency Stability [ -22°F to +140°F (-30°C to +60°C)]**: 1.5 ppm
- **Modulation Limiting 25 kHz Channels**: 5 kHz
- **Modulation Limiting 12.5 kHz Channels**: 2.5 kHz
- **Emissions (Conducted/Radiated)**: 75 dBc
- **Audio Response**: +1.1 to -3 dB
- **FM Hum and Noise 25 kHz Channels**: 47 dB
- **FM Hum and Noise 12.5 kHz Channels**: 47 dB
- **Audio Distortion**: 1%

## Receiver

### UHF

- **Audio Power Output**: 1 W rated | 2.5 W Max
- **Frequency Stability [ -22°F to +140°F (-30°C to +60°C)]**: 1.5 ppm
- **Analog Mode Sensitivity**: 12 dB SINAD
- **Digital Mode Sensitivity**: 5% BER
- **Selectivity**: 25 kHz Channels: 75 dB
- **Selectivity**: 12.5 kHz Channels: 60 dB
- **Intermodulation**: 75 dB
- **Spurious & Image Rejection**: 80 dB
- **FM Hum and Noise 25 kHz Channels**: 50 dB
- **FM Hum and Noise 12.5 kHz Channels**: 44 dB
- **Audio Distortion**: 1.5%

## Battery

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Dimensions (HxWxD)</th>
<th>Weight</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lithium ion</td>
<td>6.5&quot; x 2.3&quot; x .78&quot; (16.5 cm x 5.8 cm x 2.0 cm)</td>
<td>8.1 oz (228.6 g)</td>
<td>4500 mAh</td>
</tr>
</tbody>
</table>

**Note**: 25kHz mode is not available in the US FCC frequencies in UHF.

Specifications are measured per TIA 102.CAAA-C, TIA 102.CAAB-C and per TIA 603-D.

All specifications are subject to change without notice. Please check the website for the latest version. V1.2.2018 © Copyright 2018 EF Johnson Technologies, Inc. (E.F. Johnson Company is operating entity)

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**Environmental Specifications**

### Environment

<table>
<thead>
<tr>
<th>Mil Spec</th>
<th>810G</th>
</tr>
</thead>
<tbody>
<tr>
<td>M</td>
<td>P</td>
</tr>
<tr>
<td>Low Pressure</td>
<td>500.5</td>
</tr>
<tr>
<td>High Temp.</td>
<td>501.5</td>
</tr>
<tr>
<td>Low Temp.</td>
<td>502.5</td>
</tr>
<tr>
<td>Temp. Shock</td>
<td>503.5</td>
</tr>
<tr>
<td>Solar Radiation</td>
<td>505.5</td>
</tr>
<tr>
<td>Rain/Blown Rain</td>
<td>506.5</td>
</tr>
<tr>
<td>Humidity</td>
<td>5075</td>
</tr>
<tr>
<td>Salt Fog</td>
<td>509.5</td>
</tr>
<tr>
<td>Dust and Sand</td>
<td>510.5</td>
</tr>
<tr>
<td>Vibration</td>
<td>514.6</td>
</tr>
<tr>
<td>Shock</td>
<td>516.6</td>
</tr>
<tr>
<td>Immersion</td>
<td>512.5</td>
</tr>
</tbody>
</table>

M=Method, P=Procedure
Also meets equivalent superseded C, D, E, and F standards.
Immersion meets IEC 529 IP67

### Encryption Options

- Supported Encryption: AES, DES-OFB, ARC4
- Encryption Key/ Radio: 128 Common Key Reference (CKR), 128 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

### Accessories

- Approved Battery: 5875700373 (Identified by lack of release button & presence of key slot on bottom of battery)
- Approved Speaker Microphones: 5893211B18, 5893211B24, 5893211B30, 5893211G18, 5893215G24, 5893217G10 (KENWOOD Viking Premium Speaker Mic w/options for black or high visibility & three cord lengths)

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[Visit our website](https://www.efjohnson.com) for more information.