

AMENDMENT NUMBER 2

TO SOUTH DAKOTA MASTER PURCHASING AGREEMENT

E.F. JOHNSON COMPANY CONTRACT # SCO13672

Whereas, the State of South Dakota through the South Dakota Bureau of Information and Telecommunications ("Customer") and E.F. Johnson Company, now known as "E.F. Johnson" or "Contractor" entered into a Master Purchase Agreement on October 30, 2017 (the "Agreement") for the provision of two-way radio equipment and accessories; and,

Whereas, the parties want to extend the term of the Agreement pursuant to Section 4.1 to allow for continuing purchase of products at discounts established in the Exhibit of the Agreement;

Now Therefore, the Customer and E.F. Johnson agree to amend the Agreement to extend the timeframe for making continuing purchases of products at the established discounts until September 30, 2021.

BY SIGNING BELOW, both parties hereto accept this Amendment Number 2 to the Agreement. Except as amended herein, all the terms and conditions of the Agreement remain unchanged and in full force and effect.

STATE OF SOUTH DAKOTA.
SOUTH DAKOTA BUREAU OF
INFORMATION AND TELECOMMUNICATIONS

E.F. JOHNSON COMPANY

BY: *Jeffrey Clines*
Jeffrey Clines (Sep 22, 2020 17:03 CDT)

NAME: Jeffrey Clines

TITLE: Commissioner

DATE: 09/22/2020

BY: *Duane Anderson*
Duane Anderson (Sep 22, 2020 18:25 CDT)

NAME: Duane Anderson

TITLE: President & CEO

DATE: 09/22/2020

AMENDMENT NUMBER 1

TO SOUTH DAKOTA MASTER PURCHASING AGREEMENT

E.F. JOHNSON COMPANY CONTRACT # SCO13672

Whereas, the State of South Dakota through the South Dakota Bureau of Information and Telecommunications ("Customer") and E.F. Johnson Company, now known as "E.F. Johnson" or "Contractor" entered into a Master Purchase Agreement on October 30, 2017 (the "Agreement") for the provision of two-way radio equipment and accessories; and,

Whereas, the parties want to extend the term of the Agreement pursuant to Section 4.1 to allow for continuing purchase of products at discounts established in the Exhibit of the Agreement;

Now Therefore, the Customer and E.F. Johnson agree to amend the Agreement to extend the timeframe for making continuing purchases of products at the established discounts until September 30, 2020.

BY SIGNING BELOW, both parties hereto accept this Amendment Number 1 to the Agreement. Except as amended herein, all the terms and conditions of the Agreement remain unchanged and in full force and effect.

STATE OF SOUTH DAKOTA.
SOUTH DAKOTA BUREAU OF
INFORMATION AND TELECOMMUNICATIONS

E.F. JOHNSON COMPANY

BY: Pat Snow
NAME: Pat Snow
TITLE: CTO & Telecommunications Director
DATE: September 12, 2019

BY: Duane Anderson
NAME: Duane Anderson
TITLE: President & CEO
DATE: September 13, 2019

CONTRACT FOR TWO-WAY RADIO EQUIPMENT AND ACCESSORIES

This Contract is made as of this 30th day of October, 2017 by and between the State of South Dakota ("State") and E.F. Johnson Company ("E.F. Johnson" or "Contractor"). State and E.F. Johnson are sometimes referred to herein individually as a "Party" and collectively as "Parties".

The State and E.F. Johnson agree and covenant between themselves to the following terms and conditions:

1. DEFINITIONS

In this Contract, the following words have the meanings indicated:

- 1.2. **"Contract"** means this Contract for Two-Way Radio Equipment and Accessories.
- 1.3. **"Contractor"** means E.F. Johnson Company, whose principal business address is 1440 Corporate Drive, Irving, Texas 75038-2401.
- 1.4. **"Purchase Order"** authorizes Contractor to proceed with delivery of products and/or services.
- 1.5. **"State"** means the State of South Dakota through the Bureau of Information and Telecommunications.

2. SCOPE OF WORK

The Contractor shall provide Two-Way Radio Equipment and Accessories ("Products") for the State as listed in Exhibit A. These Products shall be provided in accordance with the terms and conditions of this Contract, and the following Exhibits, which are attached and incorporated herein by reference. If there are any inconsistencies between this Contract and Exhibits A-C, the terms of the Contract shall control. If there is any conflict among the Exhibits, the following order of precedence shall determine the prevailing provision.

Exhibit A – Product and Pricing Information

Exhibit B – E.F. Johnson Warranty Statement

Exhibit C – E.F. Johnson Software License Agreement

3. PURCHASES AND PAYMENT

- 3.1. **State Purchases.** State may purchase Products by submitting a written Purchase Order detailing the following: Product(s) requested (including model number), description, quantity requested of each Product(s), date of order, bill-to and ship-to address(es), purchasing agent's signature and contact information, and the delivery date(s) ("Purchase Order"). Contractor may reject State's Purchase

Order at Contractor's full discretion within five (5) business days of submission of the Purchase Order; however Contractor shall endeavor to accept all reasonable Purchase Orders. Contractor's acceptance of State's Purchase Order shall be confirmed to State in writing ("Sales Order Confirmation").

- 3.2. Payment Terms.** Payment terms are governed by SDCL ch. 5-26 and are net forty five (45) from invoice date. If payment is not received within forty five (45) days, State shall pay interest at the rate of one and one-half percent (1½%) per month on the unpaid portion of any payment not paid when due until payment is received by Contractor as set forth in SDCL ch. 5-26.

4. TERM

- 4.1. Term.** This Contract shall be for an initial term ending September 30, 2019 ("Initial Term"), and may be renewed by mutual agreement of the parties for two (2) additional twelve month terms ("Renewal Term"). It is the intention of the Parties that pricing shall remain firm during the any applicable Initial Term or Renewal Term. Notwithstanding the number of renewals, if any, this Agreement is and always shall be interpreted as a fixed and not indefinite term Agreement. Expiration or termination of this Agreement will not affect any warranty period that has not yet expired nor the survival of Contractor's obligations under Sections 12 and 13 of this Agreement.

- 4.2. Price Escalation.** The Contractor may request a price adjustment in writing ninety (90) days prior to any Renewal Term. Proposed pricing may be based on an adjustment in the Consumer Price Index ("CPI") measured at the time of the request. If State and Contractor do not reach agreement in writing on renewal pricing prior to the expiration of the current term, the Contract will be terminated by either Party with no penalty to the other Party.

5. DEFAULT AND TERMINATION

If a Party fails to perform a material obligation under this Contract, unless based on a Force Majeure pursuant to Section 6, the other Party may consider that Party to be in default. The non-defaulting Party shall give the defaulting party written notice of such default, and specify in writing a reasonable amount of time that is in no event less than thirty (30) days during which the defaulting Party has to cure such default or provide a cure plan. The amount of time to cure specified shall take into consideration the gravity and nature of the default.

If a defaulting Party fails to cure the default in the paragraph above, unless otherwise agreed in writing, the non-defaulting Party may terminate any unfulfilled portion of the contract. In the event of such termination, the defaulting Party will promptly return to the non-defaulting Party any of its confidential information. If State is the non-defaulting Party, terminates this contract as permitted by this Paragraph and completes the work through a third party, State may, as its exclusive remedy recover from Contractor reasonable

costs incurred to complete the work to a capability not exceeding that specified in the portion of the contract that serves as the basis for the default, less the unpaid portion of that work. State agrees to use reasonable efforts to mitigate such costs and to provide Contractor with invoices substantiating the charges.

This Agreement depends upon the continued availability of appropriated funds and expenditure authority from the Legislature for this purpose. If for any reason the Legislature fails to appropriate funds or grant expenditure authority, or funds become unavailable by operation of law or federal funds reductions, this Agreement will be terminated by the State. Termination for any of these reasons is not a default by the State nor does it give rise to a claim against the State; however, Contractor shall be entitled to payment for all products and services ordered by the State prior to the effective date of such termination.

6. FORCE MAJEURE

In the event of either Party hereto is rendered unable, wholly or in part, by Force Majeure to carry out its obligations under this Agreement, other than to make payments when due hereunder, it is agreed that upon such Party giving notice and full particulars of such Force Majeure in writing to the other Party as soon as possible after the occurrence of the cause relied on, then the obligations of the Party giving such notice, so far as they are affected by such Force Majeure, and any corresponding obligations of the other Party, shall be suspended during the continuance of any inability caused by such Force Majeure, but for no longer period, and such Force Majeure shall as far as possible be remedied with all reasonable and diligent dispatch by the Party claiming Force Majeure in order to put itself in a position to carry out its obligations under this Agreement. The term "Force Majeure" shall mean any event or circumstance beyond the reasonable control of the Party claiming Force Majeure, and which by exercise of due foresight such Party could not reasonably have been expected to avoid and which the Party is unable to overcome by the exercise of due diligence, including but not necessarily limited to, any act of God, any act or omission of any government authority not caused by the act or omission of the Party claiming Force Majeure, explosions, fire, riot, war and natural disasters; provided, however, the term "Force Majeure" shall include strikes or labor disputes which commence during the applicable period for service rendered hereunder.

7. SHIPPING, RISK OF LOSS AND TITLE TRANSFER

Contractor will ship all products FOB destination. All freight charges will be pre-paid by Contractor and added to the invoices Title to the products shall pass to State upon delivery, except that title to software will not pass to State at any time. Risk of loss will transfer from Contractor to State upon delivery of the products to the State.

Partial shipment and partial performance are hereby authorized by the State. Contractor shall issue invoices to State for all Products as they are shipped or performed.

8. WARRANTY

Products sold hereunder carry Contractor's standard product warranty attached hereto as Exhibit B. CONTRACTOR MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, NON-INFRINGEMENT, AND WARRANTIES ARISING OUT OF COURSE OF DEALING OR USAGE OR TRADE, OR ANY OTHER MATTER.

9. DISCONTINUANCE OF PRODUCTS

Contractor reserves the right at any time to discontinue any model in its product line and to make changes or improvements in specifications or design in such products without incurring any obligations to State with respect to the past or future sale of such products.

10. LIMITATION OF LIABILITY

ALTHOUGH THE PARTIES ACKNOWLEDGE THE POSSIBILITY OF SUCH LOSSES OR DAMAGES, NEITHER PARTY (nor any of ITS OFFICERS, DIRECTORS, EMPLOYEES, SHAREHOLDERS, AGENTS AND REPRESENTATIVES) WILL BE LIABLE TO THE OTHER PARTY FOR SPECIAL, INCIDENTAL, INDIRECT, OR CONSEQUENTIAL DAMAGES IN ANY WAY RELATED TO OR ARISING FROM THIS AGREEMENT OR THE PERFORMANCE OF SERVICES BY VENDOR PURSUANT TO THIS AGREEMENT.

IN NO EVENT SHALL CONTRACTOR HAVE ANY LIABILITY TO THE STATE (WHETHER IN CONTRACT, TORT (INCLUDING NEGLIGENCE), OR OTHERWISE FOR ANY DAMAGES FOR LOST PROFITS, LOST SAVINGS, LOSS OF USE, BUSINESS INTERRUPTION, LOST OR DAMAGED FILES OR DATA, OR OTHERWISE FOR ANY SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES IN CONNECTION WITH THIS TRANSACTION EVEN IF CONTRACTOR HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. CONTRACTOR'S LIABILITY FOR DAMAGES, FROM ANY CAUSE WHATSOEVER, AND REGARDLESS OF THE FORM OF ACTION, WILL BE LIMITED TO THE ACTUAL DAMAGES PROVEN, IN NO EVENT TO EXCEED THE AGGREGATE PURCHASE PRICE OF THIS AGREEMENT.

THE PROVISIONS OF THIS SECTION DO NOT APPLY TO CONTRACTOR'S OBLIGATIONS UNDER SECTIONS 12 AND 13 OF THIS AGREEMENT.

11. CONFIDENTIALITY AND INTELLECTUAL PROPERTY

11.1. Confidentiality

Confidential Information and any rights therein shall be and remain the property of the Disclosing Party.

E.F. Johnson and State, for itself and on behalf of its officers, employees and agents, agree: (i) to hold Confidential Information of the other Party in strict confidence and not to disclose any part of it to others, exercising at least the same degree of care as it takes in protecting its own trade secrets (but no less than a reasonable degree of care); (ii) not to disclose Confidential Information of the other Party without the other Party's prior written consent to any entity or person other than its employees or contractors who require disclosure to perform under the terms of this Agreement (the "Purpose"); (iii) not to allow any persons or entities other than such employees access to Confidential Information of the other Party, and then only upon execution by the employee of the confidentiality agreement; and, (iv) except as needed to perform the Purpose, not to make any use of Confidential Information of the other Party unless authorized, in writing, in advance by the other Party.

Neither Party shall attempt to gain unauthorized access to any Confidential Information of the other Party and in the event access is obtained, it shall immediately report that fact to the other Party and to the extent possible explain the details of the procedure used to gain such access.

The obligations of this section shall continue with respect to any Confidential Information during the term of this Agreement and for a period of three (3) years following termination of this Agreement.

Within thirty (30) calendar days after termination of this Agreement or upon written request by the Disclosing Party, whichever is earliest, the Receiving Party shall return to the Disclosing Party all Confidential Information of the Disclosing Party that is not needed by the Receiving Party to perform its obligations hereunder (including that generated by or on behalf of Receiving Party which is in the possession of the Receiving Party or its employees or subcontractors and is in tangible form) and all copies thereof, or with the Disclosing Party's prior written approval the Receiving Party shall destroy the same and certify in writing, such destruction to the Disclosing Party.

The Receiving Party shall require protective covenants and agreements from third parties to whom Confidential Information of the other Party is disclosed. The

Receiving Party shall inform its employees assigned to the services with respect to this Agreement and/or any of its obligations contained in this section, and shall require such employees to sign agreements of confidentiality containing nondisclosure/nonuse obligations prior to giving them access to Confidential Information of the other Party.

If the Receiving Party is required by law, regulation, or judicial order to disclose Confidential Information of the Disclosing Party, the Receiving Party, except to the extent prohibited by law, shall promptly notify the Disclosing Party and cooperate with Disclosing Party if requested to minimize such disclosure and to otherwise protect the confidentiality of such Confidential Information as is required to be disclosed to the maximum extent possible under the relevant circumstances.

State and Contractor acknowledge and agree that the Confidential Information and intellectual property may contain valuable trade secrets of each other, the disclosure of which would cause the other Party irreparable harm for which monetary compensation would be inadequate. Therefore, the Parties agree that in the event of a breach by the other Party of its nondisclosure obligations under this Agreement it shall be entitled to injunctive relief from a court of competent jurisdiction without the need to post any bond or demonstrate actual damages.

Contractor finally acknowledges that the State's ability to comply with these confidentiality provisions is subject to South Dakota's open records provisions, SDCL ch. 1-27 and that the State's good faith compliance with these provisions does constitute a breach of this agreement and will result in liability on behalf of the State. The State finally acknowledges that it will adhere to SDCL ch. 1-27-1.5 (3) Trade secrets. Information and documents provided in this contract or in conjunction with this contract are considered other proprietary or commercial information which if released would infringe intellectual property rights, give advantage to business competitors, or serve no material public purpose.

11.2. Intellectual Property.

All intellectual property, including but not limited to, patent, trademark, copyright, mask work, design, trade dress, trade secrets, design drawings, sketches, models, samples, software, tooling, processes, methods and ideas, and all technical data relating to the products is and shall remain Contractor's intellectual property ("Contractor IP"). In addition to Contractor's other remedies, State agrees that any benefit or property derived from any unauthorized use of Contractor IP shall be the exclusive property of Contractor. Sale of Products to State does not convey a license to Contractor IP other than a right to use the Product in accordance with product specifications.

12. Patent and Copyright Infringement.

Contractor warrants that it has good title to the Software or the right to license the same hereunder purchased by the State under this Agreement and that, to the best of Contractor knowledge, the Software does not infringe upon any valid U.S. patent issued prior to the date of the Agreement. Contractor will defend, at its expense, any action brought against State to the extent it is based on a claim that the Software, used within the scope of this license, infringes upon any such U.S. patent, but only if (a) State promptly notifies Contractor in writing of any such claim or proceeding, (b) State permits Contractor to fully control the defense of such action, (c) State cooperates with Contractor in connection with such defense, (d) State does not compromise or settle any claim without the prior written consent of Contractor and (e) the infringement does not relate to any (i) modifications to the Software made other than by Contractor, or (ii) modifications made to State's specifications. Contractor shall have no other or further obligation or liability with respect to any claim of infringement or for breach of its warranty of title. If any part of the Software becomes, or if Contractor considers any of the Software likely to become, subject to a claim of infringement, Contractor may in its sole discretion (a) procure for State the right to continue using such Software, (b) replace or modify the Software to make it non-infringing, refund the paid purchase price of the Equipment upon return of the Equipment upon return of the Equipment in undamaged condition, or (c) take such other action as is necessary and feasible to maintain State's use of the Software.

In addition to Contractor's obligation to defend, and subject to the same conditions, Contractor will pay all damages, costs and expenses, including reasonable attorney fees finally awarded against State by a court of competent jurisdiction for an infringement claim or agreed to, in writing, by Contractor in settlement of an infringement claim. Finally, Contractor will indemnify State for all reasonable costs and expenses incurred as the result of an Infringement Claim covered by this section.

13 Indemnification

Contractor will indemnify and hold State harmless from any and all liability, cost and expense, reasonable attorney fees, judgment, suit, cause of action, or demand for personal injury, death, or direct damage to tangible property which may accrue against State to the extent it is caused by the willful misconduct or negligence of Contractor, its subcontractors, or their employees or agents, while performing their duties under this Agreement, if State gives Contractor prompt, written notice of any the claim or suit. State will cooperate with Contractor in its defense or settlement of the claim or suit. This section sets forth the full extent of Contractor's general indemnification of State from liabilities that are in any way related to Contractor's performance under this Agreement.

14 DISPUTES

If a claim, dispute, or other matter in question arises out of this Contract, which the Parties are unable to resolve through mutual, good faith, negotiations, it shall first be mediated by a mutually selected mediator through non-binding mediation. The Parties will not unreasonably withhold their consent to the selection of a mediator and will share in the cost of the mediation equally; may postpone mediation until they have completed some specific but limited discovery about the dispute. If such claim, dispute or other matter cannot be resolved by non-binding mediation within sixty (60) days of submittal to the mediator, each Party shall be free to pursue such legal remedies as the Party believes it is entitled to under the terms of this Contract. Each Party may resort to judicial proceedings described in this section before the expiration of the sixty (60) day mediation period if good faith efforts to resolve the dispute under these procedures have been unsuccessful; or interim relief from the court is necessary to prevent serious and irreparable injury to the Party.

15. MISCELLANEOUS PROVISIONS

- 15.1. Export Administration.** The Parties undertake to comply with all applicable export/re-export laws and regulations regarding the Products or Confidential Information. Specifically in the previous regard, the Receiving Party shall adhere to the U.S. Exports Administration Laws and Regulations and shall not export or re-export any Confidential Information or technical data or products received from the other Party or the direct product of such Confidential Information or technical data to any country or party unless properly authorized by the U.S. Government. The Parties agree that these obligations shall survive the termination of this Contract.
- 15.2. Independent Contractor.** E.F. Johnson's relationship with State under this Agreement is that of an independent contractor. Nothing in this Agreement, any Exhibit to this Agreement, or any Order Confirmation shall be construed as being inconsistent with that status. E.F. Johnson shall be solely responsible for its employees, sub suppliers and agents and for their benefits, contributions and taxes, as applicable.
- 15.3. Assignment.** This Contract, including all Exhibits, are not assignable by either Party, in whole or in part, without the prior written consent of the other (which consent shall not be unreasonably or untimely withheld), and any attempted assignment without such consent, whether by operation of law or otherwise, shall be void; provided however and notwithstanding anything herein to the contrary, either Party may assign this Contract, in whole or in part, without the other Party's consent, to any Affiliate or any purchaser of a substantial portion of that Party's Affiliate, business or facility(s) as to which this Contract relates. If the non-assigning Party fails to respond within twenty (20) business days to a written request by the assigning Party for written consent to the assignment, the non-assigning Party will be deemed to have consented to the assignment. Subject to

the foregoing, this Contract and Exhibits shall bind and inure to the benefit of the successors and assigns of the respective Parties hereto, including without limitation, any purchaser of a substantial portion of State's or Contractor's respective Affiliate, business or facility as to which this Contract and Exhibits relate. Notwithstanding any provision to the contrary in this Contract, including all Exhibits, any assignment of this Contract or part thereof shall not relieve the assignor Party from any obligation to pay amounts owing to the non-assigning Party.

- 15.4. Waiver.** The failure of either Party to enforce at any time any of the provisions of this Contract or an Exhibit shall in no way constitute or be construed as a waiver of that or any other provision of this Contract or an Exhibit, nor in any way to affect the validity of this Contract or an Exhibit or any provision thereof or the right of such Party to enforce thereafter each and every provision of this Contract. No waiver of any provision or breach of this Contract shall be deemed to be a waiver of any other provision or breach. The remedies herein reserved by the Parties shall be cumulative and additional to any other or further remedies provided in law or equity which the Parties may possess.
- 15.5. Governing Law and Venue.** This Contract, Exhibits are made under and shall be governed by the local laws of the State of South Dakota, U.S.A. (without giving effect to the conflict of law principles thereof). Any lawsuit pertaining to or affecting this Agreement shall be venued in Circuit Court, Sixth Judicial Circuit, Hughes County, South Dakota. Each Party irrevocably agrees to submit to the exclusive jurisdiction of the courts in over any claim or matter arising under or in connection with this Agreement.
- 15.6. Reformation.** In the event any provision of this Contract or an Exhibit is determined to be invalid, illegal or otherwise unenforceable for any reason, that provision shall be reformed to the maximum extent permitted to preserve the Parties' original intent, failing which it shall be severed from this Contract or the applicable Exhibit, with the balance of this Contract and of the applicable Exhibit or Purchase Order continuing in full force and effect.
- 15.7. Reproductions.** This Contract, Exhibits, Purchase Orders and all documents relating hereto and thereto may be stored and/or reproduced by any means or process including electronic or mechanical means. Any reproduction shall be admissible into evidence as the original in any litigation without regard to whether the original is in existence. If a Party signs this Contract, an Exhibit, and/or any Purchase Order (whether in writing, by a computer generated signature, or by a signature created, transmitted, received, or stored by electronic means) and then transmits an electronic facsimile of the signature page, (including, without limitation, in PDF format), the receiving Party may rely upon such electronic facsimile as an originally executed signature page without any modification or change to this Contract, unless such modification or change is noted on such electronic facsimile by the transmitting Party.

15.8. Counterparts. This Contract may be executed in two or more counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument. For purposes hereof, a facsimile copy of this Contract, including the signature pages hereto, shall be deemed to be an original.

15.9 Entire Agreement. This Contract and Exhibits contain the entire agreement of the Parties with regard to the subject matter hereof and thereof and supersedes any prior communications, commitments, representations or warranty, or contracts between the Parties relating to the subject matter hereof and thereof. No modifications of this Contract shall be of any force or effect unless reduced to a writing which specifically references this Agreement, states an express intent to modify or amend this Agreement, and is signed by the Parties claimed to be bound thereby.

15.11 Insurance. Contractor maintains and will maintain during the term of this Agreement the following: General and Products Liability in the general aggregate amount of \$2,000,000 (combined single limit for bodily injury and property damage); automobile liability in the amount of \$2,000,000 (aggregate and per occurrence, combined single limit); statutory workers' compensation; and employer liability in the amount of \$1,000,000. Upon written request from the State, Contractor will provide an industry standard certificate of insurance.

15.12. Notices. Notices required under this Agreement to be given by one Party to the other must be in writing and either delivered personally or sent to the address shown below by certified mail, return receipt requested and postage prepaid (or by a recognized courier service, such as Federal Express, UPS, or DHL), or by facsimile with correct answerback received, and will be effective upon receipt:

State
Attn: Jeffrey Pierce
910 E Sioux
Pierre, SD 57501
fax: (605)773-3741

EF Johnson
Attn: VP, Sales
1440 Corporate Drive.
Irving, Texas 75038
fax: (972) 819-0639

with a copy of legal notices to:

Attn: General Counsel
1440 Corporate Drive
Irving, Texas 75038
fax: (972) 819-2314

15.13. Compliance With Applicable Laws. Each Party will comply with all applicable federal, state, and local laws, regulations and rules concerning the performance of this Agreement

15.14. Records and Auditing. Contractor agrees to maintain all records that are pertinent to this Agreement for a period of three years following termination and final payment. These records shall be subject at all reasonable times for inspection, review, or audit by personnel duly authorized by the state of South Dakota, and Federal officials so authorized by law.

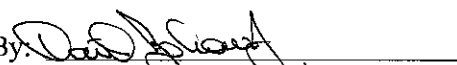
15.15 Antitrust Assignment. The Contractor hereby agrees to convey, assign and transfer to the State of South Dakota all rights, title, and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States, 15 U.S.C.A. §1, et seq. (1973), and under the antitrust laws of the State of South Dakota, SDCL ch. 37-1, and amendments thereto, relating to the particular goods, services and materials purchased by the Attorney General in connection with this Agreement.

In witness whereof, we, the undersigned agree to the foregoing terms and conditions of this Contract.

E.F. Johnson Company ("E.F. Johnson")

State of South Dakota ("State")

By: 

By: 

Name (Print): Duane Anderson

Name (Print): David Zolnowsky

Title: Senior Vice President, Chief Financial Officer

Title: BIT Commissioner

Date: October 26, 2017

Date: 10/30/2017

By: _____

Name (Print): _____

Title: _____

Date: _____

EFJohnson Software License Agreement

WARNING: If you elect to use the Equipment, you agree to be bound by this Software License Agreement.

- 1) **Limited License.** If Licensee elects to use the Products, Licensee agrees to be bound by the terms and conditions set forth in this Software License Agreement. For any software provided with, or contained or embedded in, the System and Subscriber Equipment manufactured by E.F. Johnson Company (the "Equipment") and sold the user of such Equipment that this Software License Agreement accompanied (the "Licensee") pursuant to an agreement between E.F. Johnson Company ("EFJohnson") and Licensee regarding the purchase of the Equipment by the Licensee (the "Contract") and any additional EFJohnson manufactured equipment which Licensee may purchase from EFJohnson from time to time hereinafter for use with the Equipment (collectively, the "Software"), EFJohnson hereby grants to Licensee a personal, non-exclusive, non-transferable, non-assignable (by operation of law or otherwise), terminable license to use the Software on the terms and subject to the conditions contained herein with the exception of software developed by a manufacturer other than EFJohnson ("third-party software manufacturer") pursuant to a third-party license agreement. Such third-party software manufacturer may be a beneficiary of this Software License Agreement if required under such third-party license agreement. Licensee shall not have the right to sublicense, rent, lease, copy, modify, reverse engineer, disassemble, decompile or otherwise transfer the Software, except as provided herein. The license granted herein authorizes Licensee to use the Software for its own internal purposes and only in connection with the use of the Equipment. Licensee agrees not to use the Software for any other purpose or install the Software on any replacement or additional computer or equipment. EFJohnson prohibits (a) the use of the programs for rental, timesharing, subscription service, hosting or outsourcing; (b) the removal or modification of any program markings or any notice of proprietary rights; (c) the Licensee from making the programs available in any manner to any third party for use in any third party's business operations. Licensee shall not exercise any rights with respect to the Software that are not expressly granted herein.
- 2) **Maintenance; New Releases; Copies.** Provided Licensee is current in its payment of software maintenance fees, Licensee shall be entitled to receive any error or bug fixes provided by EFJohnson as part of the software maintenance. Further, so long as the customer is current in its payment of

software maintenance fees, the customer shall receive any software updates released on a regular basis after system acceptance that include enhancements to existing features for all designated System backbone components and subscriber equipment; new features implemented via the System components already contained within the System; and Software for product migrations where a new generation of Software is developed for the designated System component, rather than the older generation of Software being updated. Maintenance shall be provided in accordance with the EFJohnson maintenance policy. EFJohnson may, but has no obligation to do so, offer for an additional license fee new features or enhancements to the Software. Licensee shall not copy, print, disassemble, modify, distribute, translate, reverse engineer or reproduce all or any portion of the Software or related documentation; provided that Licensee shall be entitled to make two (2) copies for back-up purposes only and not production use of the portions of the Software provided to Licensee.

- 3) **Proprietary Rights.** Licensee acknowledges that (a) the Software, including each program or system of which it is a part, and all supporting documentation and materials therefore, are the exclusive property of EFJohnson and/or any third-party software manufacturer as applicable, and (b) title to and all rights to the Software, including copyright, patent, intellectual property rights, trade secret and other rights in the Software, shall remain with EFJohnson and/or any third-party software manufacturer as applicable. Licensee shall not copy, reproduce, disclose or divulge the Software to any person, except to the extent reasonably required for purposes consistent with this license to an officer, employee, independent accountant, attorney or other similar agent of Licensee, and then only if Licensee uses the same degree of care, but no less than a reasonable degree of care, that Licensee uses to protect the confidentiality and title thereto of its own confidential or proprietary information of a like nature. Licensee shall not publish any results of benchmark tests run on the programs. Licensee acknowledges EFJohnson's right to seek equitable relief, including an injunction in the event of any breach or threatened breach by Licensee of this license. Notwithstanding the foregoing, Licensee shall have the right to disclose the Software to the extent required by a governmental agency or court with appropriate jurisdiction, provided that Licensee notifies EFJohnson in writing of the need to so disclose in advance of such disclosure. Licensee agrees that if any use of the Software comes to Licensee's attention which, in its opinion is unauthorized, Licensee shall promptly notify EFJohnson of such unauthorized use. Licensee, however, shall be under no affirmative obligation to make investigations to determine if an unauthorized use has occurred. In addition to the system key and

encryption keys (and any programming materials or documents foregoing, Licensee acknowledges and agrees that, in order to protect the privacy of its radio system, it shall treat its encryption key and/or Multi-Net containing such keys) as highly confidential information and not disclose such keys to any third party unless such third party is subject to obligations of confidentiality in favor of Licensee.

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- 5) **Limited Operational Warranty.** EFJohnson warrants the Software in accordance with its applicable warranty statement.
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Subscriber Radio Warranty Statement

E.F. Johnson Company ("EFJohnson") warrants to the original purchaser for use ("Customer") that the portable and mobile radio equipment manufactured by EFJohnson ("Products") and software implemented onto the Products ("Software") are free from defects in material and workmanship by conforming to EFJohnson's published technical specifications as of the date of shipment for a period of one (1) year from the date of shipment by EFJohnson with the exception of the Viking series of portable and mobile radios offered by EFJohnson covered by a warranty for a period of three (3) years from the date of shipment by EFJohnson (each respectively the "Warranty Period"). EFJohnson makes no warranty with respect to the equipment not manufactured by EFJohnson, and any such equipment shall carry the original equipment manufacturer's warranty. EFJohnson further makes no warranty as to, and specifically disclaims liability for, availability, range, coverage, grade of service or operation of the repeater system provided by the carrier or repeater operator. Any repaired or replaced Products or Software shall be warranted for the remainder of the original Warranty Period or for ninety (90) days from the Customer's receipt of the repaired or replaced Product or Software, whichever is longer.

Hardware Warranty: If any Product fails to meet the warranty set forth above during the applicable Warranty Period and is returned to a location designated by EFJohnson, EFJohnson, at its option, shall either repair or replace such Product, directly or through an authorized service agent, within thirty (30) days of receipt of same. No Products may be returned without the prior written authorization from EFJohnson. EFJohnson will pay the shipping charges if the Product is repaired or replaced under warranty. Repair or replacement of Products as set forth in this paragraph fulfills any and all warranty obligations on the part of EFJohnson.

Software Warranty: If any Software fails to meet the warranty set forth above during the applicable Warranty Period, the Customer must notify EFJohnson in writing before the expiration of the Warranty Period. Whether Software defects occur will be determined solely upon reference to EFJohnson's published operational and technical specifications as of the date of shipment, and to any additional technical documentation incorporated into the mutually agreed-upon contractual agreement. EFJohnson does not warrant that the use of the Software will be uninterrupted or error-free or that the Software will meet particular (other than contractually agreed-upon) requirements. Upon receipt of such notice, EFJohnson will investigate the warranty claim. If this investigation confirms a valid warranty claim, EFJohnson will, at its option and at no additional charge to the Customer, repair the defect, replace the defective Software with the same or equivalent Software, or refund the price of the defective Software or individual Product in which the Software is embedded or for which it is provided. Such action will be the full extent of EFJohnson's liability and the Customer's sole remedy for a breach of this warranty. If the investigation indicates that the Warranty claim is not valid, then EFJohnson may invoice the Customer for responding to a claim on a time and materials basis using EFJohnson's then current labor rates.

Exclusions: This warranty is void and EFJohnson shall not be obligated to replace or repair any Products and/or Software if: (i) the Product and/or Software has been used in other than its normal and customary manner, (ii) the Product and/or Software has been subject to misuse, accident, neglect or damage or has been used with other than EFJohnson approved accessories and equipment or has been improperly installed, (iii) the Products and/or Software have been installed and/or maintained by individuals who have not followed EFJohnson's then current installation or maintenance procedures and/or are not trained and certified by EFJohnson on the Products and/or Software, (iv) unauthorized alterations or repairs have been made or unapproved parts have been used with the Product and/or Software, or (v) Customer failed to notify EFJohnson or an EFJohnson authorized service agent of the defect during the applicable Warranty Period.

KENWOOD

ATLAS[®]

 **VIKING**[®]

Price Guide

EFJohnson

a JVCKENWOOD Company

Effective Date: 09.09.2019

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ATLAS Repeaters

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KENWOOD



P25 Mission Critical

Viking 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 option)
- 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 announcements 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)



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.

	Radio - Base Model	Contract	List
VP6230BKF2	VHF, 136-174 MHz, Model 2 (standard keypad), Black	\$ 1,808.00	\$2,260
VP6330BKF2	UHF, 450-520 MHz, Model 2 (standard keypad), Black	\$ 1,808.00	\$2,260
VP6330BKF5	UHF, 380-470 MHz, Model 2 (standard keypad), Black	\$ 1,808.00	\$2,260
VP6430BKF2	700/800 MHz, 762-806 MHz and 806-870 MHz, Black, Model 2 (standard keypad)	\$ 1,808.00	\$2,260
VP6230BKF3	VHF, 136-174 MHz, Model 3 (full keypad), Black	\$ 2,008.00	\$2,510
VP6330BKF3	UHF, 450-520 MHz, Model 3 (full keypad), Black	\$ 2,008.00	\$2,510
VP6330BKF6	UHF, 380-470 MHz, Model 3 (full keypad), Black	\$ 2,008.00	\$2,510
VP6430BKF3	700/800 MHz, 762-806 MHz and 806-870 MHz, Black, Model 3 (full keypad)	\$ 2,008.00	\$2,510
VP6230GRF2	VHF, 136-174 MHz, Model 2 (standard keypad), Green	\$ 1,968.00	\$2,460
VP6330GRF2	UHF, 450-520 MHz, Model 2 (standard keypad), Green	\$ 1,968.00	\$2,460
VP6330GRF5	UHF, 380-470 MHz, Model 2 (standard keypad), Green	\$ 1,968.00	\$2,460
VP6430GRF2	700/800 MHz, 762-806 MHz and 806-870 MHz, Green, Model 2 (standard keypad)	\$ 1,968.00	\$2,460
VP6230GRF3	VHF, 136-174 MHz, Model 3 (full keypad), Green	\$ 2,168.00	\$2,710
VP6330GRF3	UHF, 450-520 MHz, Model 3 (full keypad), Green	\$ 2,168.00	\$2,710
VP6330GRF6	UHF, 380-470 MHz, Model 3 (full keypad), Green	\$ 2,168.00	\$2,710
VP6430GRF3	700/800 MHz, 762-806 MHz and 806-870 MHz, Green, Model 3 (full keypad)	\$ 2,168.00	\$2,710
	Model Options	Contract	List
	Intrinsically Safe (CSA) - <i>KNB-LS5 battery required</i>	\$ 79.20	\$ 99.00
	Antenna	Contract	List
KRA-32K	700/800 MHz Whip Antenna	\$ 28.00	\$ 35.00
KRA-36	700/800 MHz Stubby Antenna	\$ 20.00	\$ 25.00
KRA-27M	UHF whip antenna 440-490 MHz	\$ 11.20	\$ 14.00
KRA-27M2	UHF whip antenna 470-520 MHz	\$ 11.20	\$ 14.00
KRA-27M3	UHF whip antenna 400-450 MHz	\$ 11.20	\$ 14.00
KRA-23M	UHF low-profile helical antenna 450-490 MHz	\$ 10.96	\$ 13.70
KRA-23M2	UHF low-profile helical antenna 470-512 MHz	\$ 10.96	\$ 13.70
KRA-23M3	UHF low-profile helical antenna 403-430 MHz	\$ 10.96	\$ 13.70
KRA-26M	VHF helical antenna 146-162 MHz	\$ 11.20	\$ 14.00
KRA-26M2	VHF helical antenna 162-174 MHz	\$ 11.20	\$ 14.00
KRA-26M3	VHF helical antenna 136-150 MHz	\$ 11.20	\$ 14.00
KRA-22M	VHF low-profile helical antenna 148-162 MHz	\$ 10.96	\$ 13.70
KRA-22M2	VHF low-profile helical antenna 162-174 MHz	\$ 10.96	\$ 13.70
KRA-22M3	VHF Low-profile helical antenna 136-150 MHz	\$ 10.96	\$ 13.70
KRA-25	VHF High gain helically loaded whip antenna 148-162 MHz	\$ 27.40	\$ 34.25
	Batteries & Chargers	Contract	List
KNB-L2M	Li-ion 2600mAh (Standard)	\$ 110.40	\$ 138.00
KNB-L3M	Li-ion 3400mAh (High Capacity)	\$ 144.00	\$ 180.00
KNB-LS5	Li-ion Intrinsically Safe	\$ 160.00	\$ 200.00
KSC-Y32K	Rapid rate single unit charger (Long-Life Charge Mode capable with KAS-12 Software) Note: NiMH/Li-ion battery only	\$ 92.00	\$ 115.00

KSC-32	Rapid rate single unit charger	\$ 56.00	\$ 70.00
KSC-326K	Rapid rate 6-unit charger	\$ 504.00	\$ 630.00
KMB-30M	Wall Mount Bracket for KSC-326K/256K	\$ 27.00	\$ 33.75
KVC-15	Rapid rate DC vehicular charger adapter for the KSC-32 (chargers not included; includes KSC-mobile bracket & cigarette lighter cable DC adapter)	\$ 95.20	\$ 119.00
Carrying Accessories		Contract	List Price
KBH-11	Spring action belt clip (2.5")	\$ 11.76	\$ 14.70
Microphones & Audio Accessories		Contract	List Price
KMC-54WDM	MIL-SPEC, IP67 (Immersion) Speaker Mic	\$ 104.00	\$ 130.00
KMC-49	MIL-SPEC, Speaker Mic. with Antenna Connector Note: 5/16" Coax cable hex wrench included (antenna is not included).	\$ 260.00	\$ 325.00
KEP-1	3.5mm earphone kit for KMC-41/42W/54W Speaker Mics	\$ 42.00	\$ 52.50
KEP-2	2.5mm earphone kit for KMC-49 Speaker Mic	\$ 42.00	\$ 52.50
KHS-11BL	2-wire palm mic w/earphone, universal connector (Black)	\$ 125.20	\$ 156.50
KHS-12BL	3-wire mini lapel mic w/earphone, universal connector (Black)	\$ 147.20	\$ 184.00
KHS-14	Lt. Wt. Single muff headset w/boom mic & In-line PTT	\$ 100.80	\$ 126.00
	Protocol	Contract	List
	Analog FM	\$ -	\$0.00
	P25 CAI AMBE+2	\$ -	\$0.00
	System Options	Contract	List
1	Analog Conventional	\$ -	\$0.00
2	P25 Conventional	\$ 280.00	\$350.00
3	P25 Phase 1 Trunking (Must also have option 2)	\$ 100.00	\$125.00
4	P25 Phase 2 TDMA (Must also have option 3)	\$ 320.00	\$ 400.00
5	Viking16	\$ 620.00	\$ 775.00
	Optional Features	Contract	List
	Channels/Talkgroups		
	1024 Channels/Talkgroups (standard)	\$ -	\$0.00
	2048 Channels/Talkgroups (standard)	\$ 240.00	\$300.00
	4096 Channels/Talkgroups	\$ 480.00	\$600.00
	Encryption		
	DES-OFB (multi-key)	\$ -	\$0.00
	AES FIPS 140-2 (multi-key)	\$ 380.00	\$ 475.00
	ARC4 (ADP compatible)	\$ -	\$0.00
	Programming & Data		
	TrueVoice™ Noise Cancellation	\$ -	\$0.00
	MDC1200/GE-Star Signaling	\$ 40.00	\$ 50.00
	P25 Conventional Voting Scan	\$ -	\$0.00
	P25 Data Conventional	\$ 112.00	\$ 140.00
	P25 Data Trunking (Conventional included)	\$ 160.00	\$ 200.00
	P25 Paging Decode	\$ 80.00	\$ 100.00
	OTAR (Over-The-Air-Rekeying)	\$ 600.00	\$ 750.00
	P25 Authentication	\$ 80.00	\$100.00
	OTAP (Over-the-Air Programming)	\$ 160.00	\$ 200.00
	FIRESafe™ First Responder	\$ 200.00	\$ 250.00

	FIRESafe™ Command (includes First Responder)	\$ 280.00	\$ 350.00
	GPS	\$ 80.00	\$ 100.00
	Keypad Programming (U.S. Federal Government Only)	\$ 240.00	\$ 300.00
	EVRS	\$ 80.00	\$ 100.00
	Bluetooth	\$ 80.00	\$ 100.00
	Man Down	\$ 80.00	\$ 100.00



P25 Mission Critical Viking **VP5000**

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

At just under 5.5 inches tall (140 mm), these small KENWOOD Viking portable radios are packed with advanced features for today's public safety agencies.



Features

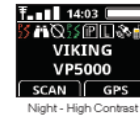
- Mixed protocol operation (P25 Phase 1 & 2 Trunking, P25 Conventional, Viking16, FM Analog)
- Mixed protocol zones (each channel in a zone can be from a different system)
- 1024 channels
- 1 Watt audio output for high noise environments
- Voice annunciation & custom announcement creation
- Fully ruggedized - IP67 & MIL-STD-810 C/D/E/F/G
- Full key models (w/numeric keypad) & standard key models (w/o 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™
 - DES-OFB
 - AES-256 (FIPS 140-2) Single and Multi-Key
 - Over-the-Air-Rekeying (OTAR)
 - VK5000 or Motorola KVL3000/KVL4000 Keyloader

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
- Multiple visual indicators including battery health & signal strength
- Day & night user selectable display options (8 themes available)



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

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.

	Radio - Base Model	Contract	List
VP5430BKF2	700/800 MHz, 762-806 MHz and 806-870 MHz, Black, Model 2 (standard keypad)	\$ 1,244.00	\$ 1,555.00
VP5430BKF3	700/800 MHz, 762-806 MHz and 806-870 MHz, Black, Model 3 (full keypad)	\$ 1,284.00	\$ 1,605.00
VP5330BKF2	UHF, 450-520 MHz, Model 2 (standard keypad)	\$ 1,244.00	\$ 1,555.00
VP5330BKF5	UHF, 380-470 MHz, Model 2 (standard keypad)	\$ 1,244.00	\$ 1,555.00
VP5330BKF3	UHF, 450-520 MHz, Model 3 (full keypad)	\$ 1,284.00	\$ 1,605.00
VP5330BKF6	UHF, 380-470 MHz, Model 3 (full keypad)	\$ 1,284.00	\$ 1,605.00
VP5230BKF2	VHF, 136-174 MHz, Model 2 (standard keypad)	\$ 1,244.00	\$ 1,555.00
VP5230BKF3	VHF, 136-174 MHz, Model 3 (full keypad)	\$ 1,284.00	\$ 1,605.00
	Model Options	Contract	List
	Intrinsically Safe (CSA) - <i>KNB-LS5 battery required</i>	\$ 79.20	\$ 99.00
	Antenna	Contract	List
KRA-32K	700/800 MHz Whip Antenna	\$ 28.00	\$ 35.00
KRA-36	700/800 MHz Stubby Antenna	\$ 20.00	\$ 25.00
KRA-27M	UHF whip antenna 440-490 MHz	\$ 11.20	\$ 14.00
KRA-27M2	UHF whip antenna 470-520 MHz	\$ 11.20	\$ 14.00
KRA-27M3	UHF whip antenna 400-450 MHz	\$ 11.20	\$ 14.00
KRA-23M	UHF low-profile helical antenna 450-490 MHz	\$ 10.96	\$ 13.70
KRA-23M2	UHF low-profile helical antenna 470-512 MHz	\$ 10.96	\$ 13.70
KRA-23M3	UHF low-profile helical antenna 403-430 MHz	\$ 10.96	\$ 13.70
KRA-26M	VHF helical antenna 146-162 MHz	\$ 11.20	\$ 14.00
KRA-26M2	VHF helical antenna 162-174 MHz	\$ 11.20	\$ 14.00
KRA-26M3	VHF helical antenna 136-150 MHz	\$ 11.20	\$ 14.00
KRA-22M	VHF low-profile helical antenna 148-162 MHz	\$ 10.96	\$ 13.70
KRA-22M2	VHF low-profile helical antenna 162-174 MHz	\$ 10.96	\$ 13.70
KRA-22M3	VHF Low-profile helical antenna 136-150 MHz	\$ 10.96	\$ 13.70
KRA-25	VHF High gain helically loaded whip antenna 148-162 MHz	\$ 27.40	\$ 34.25
	Batteries & Chargers	Contract	List
KNB-L2M	Li-ion 2600mAh (Standard)	\$ 110.40	\$ 138.00
KNB-L3M	Li-ion 3400mAh (High Capacity)	\$ 144.00	\$ 180.00
KNB-LS5	Li-ion Intrinsically Safe	\$ 160.00	\$ 200.00
KSC-Y32K	Rapid rate single unit charger (Long-Life Charge Mode capable with KAS-12 Software) Note: NiMH/Li-ion battery only	\$ 92.00	\$ 115.00
KAS-12K	License Key for KAS-12 (Authentication required) Battery Reader Software for KNB-L1M/L2M/L3M & KSC-Y32 (Windows® Vista/7/8/8.1)	\$ 68.00	\$ 85.00
KSC-32	Rapid rate single unit charger	\$ 56.00	\$ 70.00
KSC-326K	Rapid rate 6-unit charger	\$ 504.00	\$ 630.00
KMB-30M	Wall Mount Bracket for KSC-326K/256K	\$ 27.00	\$ 33.75
KVC-15	Rapid rate DC vehicular charger adapter for the KSC-32 (chargers not included; includes KSC-mobile bracket & cigarette lighter cable DC adapter)	\$ 95.20	\$ 119.00
Carrying Accessories		Contract	List Price

KBH-11	Spring action belt clip (2.5")	\$ 11.76	\$ 14.70
KBH-8DS	Leather swivel belt loop with portable D-Ring attachment	\$ 21.04	\$ 26.30
KLH-6SW	Leather swivel belt loop / detachable swivel D-Ring back	\$ 17.60	\$ 22.00
KLH-137ST	Firemen's Heavy-Duty Leather Shoulder Strap for a Heavy-Duty Leather Case	\$ 29.40	\$ 36.75
KLH-200K3	Heavy duty leather carrying case (for both K2 & K3 models)	\$ 35.40	\$ 44.25
KLH-201K3	Nylon carrying case (for both keypad models)	\$ 21.04	\$ 26.30
Special Color Housing		Contract	List Price
KWD-YH-5000	Yellow Housing Kit (Standard Key Model Only) Order L-5024 for Factory Install. (Eligible for warranty of IP67/68 immersion) Note: If you order only housing and perform Dealer Installation, IP67/68 Warranty Claim will not be eligible.	\$ 32.00	\$ 40.00
KWD-OH-5000	Orange Housing Kit (Standard Key Model Only) Order L-5025 for Factory Install. (Eligible for warranty of IP67/68 immersion) Note: If you order only housing and perform Dealer Installation, IP67/68 Warranty Claim will not be eligible.	\$ 32.00	\$ 40.00
835VP5000OH	ORANGE HOUSING, VP5000, MODEL 2	\$ 160.00	\$200
835VP5000YH	YELLOW HOUSING, VP5000, MODEL 2	\$ 160.00	\$200
Microphones & Audio Accessories		Contract	List Price
KMC-54WDM	MIL-SPEC, IP67 (Immersion) Speaker Mic	\$ 104.00	\$ 130.00
KMC-49	MIL-SPEC, Speaker Mic. with Antenna Connector Note: 5/16" Coax cable hex wrench included (antenna is not included).	\$ 260.00	\$ 325.00
KEP-1	3.5mm earphone kit for KMC-41/42W/54W Speaker Mics	\$ 42.00	\$ 52.50
KEP-2	2.5mm earphone kit for KMC-49 Speaker Mic	\$ 42.00	\$ 52.50
KHS-11BL	2-wire palm mic w/earphone, universal connector (Black)	\$ 125.20	\$ 156.50
KHS-12BL	3-wire mini lapel mic w/earphone, universal connector (Black)	\$ 147.20	\$ 184.00
KHS-14	Lt. Wt. Single muff headset w/boom mic & In-line PTT	\$ 100.80	\$ 126.00
Protocol		Contract	List
	Analog FM	\$ -	\$0.00
	P25 CAI AMBE+2	\$ -	\$0.00
System Options		Contract	List
1	Analog Conventional	\$ -	\$0.00
2	P25 Conventional	\$ -	\$0.00
3	P25 Phase 1 Trunking	\$ -	\$0.00
4	P25 Phase 2 TDMA	\$ 320.00	\$400.00
5	Viking16	\$ 620.00	\$ 775.00
Optional Features		Contract	List
Channels/Talkgroups			
	1024 Channels/Talkgroups (standard)	\$ -	\$0.00
Encryption (requires Protocol Option 2 - Digital/Project 25 CAI AMBE+2)			
	DES-OFB (multi-key)	\$ 156.00	\$ 195.00
	AES FIPS140-2 (DES-OFB included) (multi key)	\$ 600.00	\$ 750.00
	ARC4 (ADP compatible)	\$ -	\$0.00

	Programming & Data		
	TrueVoice™ Noise Cancellation	\$ -	\$0.00
	MDC1200/GE-Star Signaling	\$ 40.00	\$ 50.00
	P25 Conventional Voting Scan	\$ -	\$0.00
	P25 Data Conventional	\$ 112.00	\$ 140.00
	P25 Data Trunking (Conventional included)	\$ 160.00	\$ 200.00
	P25 Paging Decode	\$ 80.00	\$ 100.00
	OTAR (Over-The-Air-Rekeying)	\$ 600.00	\$ 750.00
	P25 Authentication (Must also have AES FIPS 140-2)	\$ 80.00	\$100.00
	OTAP (Over-the-Air Programming)	\$ 160.00	\$ 200.00
	FIRESafe™ First Responder	\$ 200.00	\$ 250.00
	FIRESafe™ Command (includes First Responder)	\$ 280.00	\$ 350.00
	GPS	\$ 80.00	\$ 100.00
	Keypad Programming (U.S. Federal Government Only)	\$ 240.00	\$ 300.00
	EVRS	\$ 80.00	\$ 100.00
	Bluetooth	\$ 80.00	\$ 100.00
	Man Down	\$ 80.00	\$ 100.00

KENWOOD



P25 Mission Critical Viking **VP900**

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

The Viking® VP900 is a dual-band, multi-protocol, P25 Phase 2 radio equipped with industry leading audio, display, and advanced feature capabilities that meet the needs of police, fire, EMS, and other mission critical users.



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) 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 annunciation & 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 three keypad options (none, limited, full)
- Integrated GPS¹
- 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

¹Refer to the Viking VP900 operating manual for detailed requirements & conditions for proper GPS operation.

Compatible With P25 Systems

- ATLAS® P25 Phase 1 and Phase 2
- 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.

Radio - Base Model		Contract	List
2425AAAA53XXX	700/800 MHz, 762-806 MHz + VHF 2.5W, and 806-870 MHz, 3W, Model 1 (no keypad)	\$ 2,060.00	\$ 2,575.00
2425AADA93XXX	700/800 MHz, 762-806 MHz + VHF 2.5W, and 806-870 MHz, 3W, Model 1 (no keypad; Hazardous Location - FM)	\$ 2,220.00	\$ 2,775.00
2425AABA53XXX	700/800 MHz, 762-806 MHz + VHF 2.5W, and 806-870 MHz, 3W, Model 2 (limited keypad)	\$ 2,220.00	\$ 2,775.00
2425AAEA93XXX	700/800 MHz, 762-806 MHz + VHF 2.5W, and 806-870 MHz, 3W, Model 2 (limited keypad; Hazardous Location - FM)	\$ 2,380.00	\$ 2,975.00
2425AACA53XXX	700/800 MHz, 762-806 MHz + VHF 2.5W and VHF and 806-870 MHz, 3W, Model 3 (full keypad)	\$ 2,380.00	\$ 2,975.00
2425Aafa93XXX	700/800 MHz, 762-806 MHz + VHF 2.5W and VHF and 806-870 MHz, 3W, Model 3 (full keypad; Hazardous Location - FM)	\$ 2,540.00	\$ 3,175.00
	Antenna	Contract	List
	Multiband 700/800 + VHF Standard	\$ -	\$ -
	Multiband 700/800 + VHF Flexible	\$ -	\$ -
	Battery	Contract	List
	No Battery (credit)	\$ (40.00)	\$ (40.00)
	Viking Li-ion Battery	\$ -	\$ -
	Housing	Contract	List
	Black Housing	\$ -	\$ -
	High Visibility Housing	\$ 160.00	\$ 200.00
	Protocol	Contract	List
1	Analog FM (included in base radio)	\$ -	\$ -
2	Digital/Project 25 CAI AMBE+2 with Free Single-Key DES-OFB (includes protocol option 1)	\$ 160.00	\$ 200.00
	System Option	Contract	List
1	Conventional System	\$ 280.00	\$ 350.00
2	Viking16	\$ 620.00	\$ 775.00
	The following selections require Protocol Option 2 (Digital/Project 25 CAI AMBE+2):		
4	Project 25 Conventional System	\$ 280.00	\$ 350.00
5	Project 25 Phase 1 Trunking Only (includes system option 4)	\$ 380.00	\$ 475.00
6	Project 25 Phase 2 TDMA (includes system option 4 & 5)	\$ 700.00	\$ 875.00
7	Project 25 Phase 1 Trunking and Viking16 Trunking (includes system options 2 & 4)	\$ 680.00	\$ 850.00
8	Project 25 Phase 2 TDMA and Viking16 Trunking (includes system options 2, 4 & 5)	\$ 1,000.00	\$ 1,250.00
	Optional Features	Contract	List
	Channels/Talkgroups		
	2048 Channels/Talkgroups (standard)	\$ -	\$ -
	Encryption (requires Protocol Option 2 - Digital/Project 25 CAI AMBE+2)		
	Single-Key DES-OFB (included with Protocol Option 2)	\$ -	\$ -
	Single-Key AES	\$ 120.00	\$ 150.00
	DES-OFB (multi-key)	\$ 440.00	\$ 550.00

	AES (multi-key)	\$ 380.00	\$ 475.00
	DES-OFB + AES (Multi-Key)	\$ 600.00	\$ 750.00
	ARC4 (ADP compatible)	\$ -	\$ -
	Programming & Data		
	MDC1200/GE-Star Signaling	\$ 40.00	\$ 50.00
	FIRESafe™ First Responder	\$ 200.00	\$ 250.00
	FIRESafe™ First Command (includes FIRESafe™ First Responder)	\$ 280.00	\$ 350.00
	GPS	\$ 80.00	\$ 100.00
	Third Party Interface	\$ 120.00	\$ 150.00
	Keypad Programming (U.S. Federal Government Only)	\$ 240.00	\$ 300.00
	<i>The following selections require Protocol Option 2 (Digital/Project 25 CAI AMBE+2):</i>		
	Project 25 Data Conventional	\$ 112.00	\$ 140.00
	Project 25 OTAR Conventional & Trunking	\$ 600.00	\$ 750.00
	P25 Paging Decode	\$ 80.00	\$ 100.00
	OTAP (Over-the-Air Programming)	\$ 160.00	\$ 200.00
	<i>The following selections require a System Option 5-8 (options with Phase 1 or Phase 2):</i>		
	Project 25 Authentication	\$ 80.00	\$ 100.00
	Project 25 Data Trunking (includes Project 25 Data Conventional)	\$ 160.00	\$ 200.00
	EVRS	\$ 80.00	\$ 100.00

KENWOOD

VIKING®
P25 Mission Critical

VM7000

VHF (with High Power and Low Band High Power^o 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)
 - VK3000 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 (OTA[®]), 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.

Primary Radio - (First Deck, Choose one)		Contract	List
VM7630HBF-P	VM7000 39-50 MHZ Hi Power Low Band Primary	\$2,480.00	\$ 3,100.00
VM7730HBF-P	VM7000 136-174 MHZ Hi Power Primary	\$2,480.00	\$ 3,100.00
VM7730BF-P	VM7000 136-174 MHZ Primary	\$1,920.00	\$ 2,400.00
VM7830BF-P	VM7000 450-520 MHZ Primary	\$1,920.00	\$ 2,400.00
VM7830BF2-P	VM7000 380-470 MHZ Primary	\$1,920.00	\$ 2,400.00
VM7930BF-P	VM7000 700/800 MHZ Primary	\$1,920.00	\$ 2,400.00
Secondary Radio - (2nd-4th Deck, Choose up to 3)		Contract	List
VM7730HBF-S	VM7000 136-174 MHZ Hi Power Secondary	\$1,440.00	\$ 1,800.00
VM7630HBF-S	VM7000 39-50 MHZ Hi Power Low Band Secondary	\$1,440.00	\$ 1,800.00
VM7730BF-S	VM7000 136-174 MHZ Secondary	\$ 880.00	\$ 1,100.00
VM7830BF-S	VM7000 450-520 MHZ Secondary	\$ 880.00	\$ 1,100.00
VM7830BF2-S	VM7000 380-470 MHZ Secondary	\$ 880.00	\$ 1,100.00
VM7930BF-S	VM7000 700/800 MHZ Secondary	\$ 880.00	\$ 1,100.00
Mounting Accessories		Contract	List
KMB-33M	Mounting Bracket	\$ 11.20	\$ 14.00
KMB-36	Hi Power Deck Mounting Bracket	\$ 120.00	\$ 150.00
836VMB10	Mounting Bracket, Dual Deck, VM7000	\$ 132.00	\$ 165.00
KCT-46	Ignition Sense Cable	\$ 10.96	\$ 13.70
KRK-17BF	Remote Kit	\$ 320.00	\$ 400.00
KCT-18	Hi Power Ignition Sense Cable	\$ 10.96	\$ 13.70
Control head		Contract	List
KCH-20RV	KCH-20 Enhanced control head	\$ 560.00	\$ 700.00
KCT-23M3	DC Cable-Remote	\$ 27.80	\$ 34.75
KCT-71M2	17 Ft remote cable	\$ 56.00	\$ 70.00
KCT-71M3	25 Feet remote cable	\$ 64.00	\$ 80.00
597535777050	VM5000/7000 Remote Cable upto 50 Ft	\$ 240.00	\$ 300.00
597535777100	VM5000/7000 Remote Cable upto 100 Ft	\$ 400.00	\$ 500.00
KMC-35	KCH Standard Mobile Mic	\$ 42.00	\$ 52.50
KMC-36	12 Keypad Mic	\$ 33.61	\$ 42.01
KCT-71M4	Control Cable	\$ 108.00	\$ 135.00
KCT-23M4	Hi Power Deck DC Cable	\$ 36.20	\$ 45.25
597539077901	USB Micro A-B Cable	\$ 14.40	\$ 18.00
Speaker		Contract	List
KCT-72M	External Accessory Connection Cable for KCH-20R	\$ 29.36	\$ 36.70
KAP-2	HA / PA Relay	\$ 50.40	\$ 63.00
KES-5	40W External Speaker	\$ 49.00	\$ 61.25
KES-5A	40W External Speaker	\$ 52.00	\$ 65.00
Power Supply		Contract	List
EH-30	VM7000 DC Power Supply	\$ 440.00	\$550
KPS-15	DC Switching Power Supply	\$ 138.40	\$173
Software Options		Contract	List
	Analog FM	\$ -	\$ -
	P25 CAI AMBE+2	\$ -	\$ -
	Analog Conventional	\$ -	\$ -
	P25 Conventional	\$ 280.00	\$ 350.00
	P25 Phase 1 Trunking	\$ 100.00	\$ 125.00

	P25 Phase 2 TDMA	\$ 320.00	\$ 400.00
	Viking16	\$ 620.00	\$ 775.00
	1024 Ch	\$ -	\$ -
	2048 Ch	\$ 240.00	\$ 300.00
	4096 Ch	\$ 480.00	\$600.00
	DES-OFB multi-key	\$ -	\$ -
	AES FIPS-140-2 multi-key	\$ 380.00	\$ 475.00
	ARC4 (ADP Compatible)	\$ -	\$ -
	Conventional Voting Scan	\$ -	\$ -
	TrueVoice Noise Cancellation	\$ -	\$ -
	MDC1200 / GE-Star Signaling	\$ 40.00	\$ 50.00
	P25 Data Conventional	\$ 112.00	\$ 140.00
	P25 Data Trunking (Conventional incl)	\$ 160.00	\$ 200.00
	P25 Paging Decode	\$ 80.00	\$ 100.00
	OTAR (Over-the-Air-Rekeying)	\$ 600.00	\$ 750.00
	P25 Authentication	\$ 80.00	\$ 100.00
	OTAP (Over-the-Air Programming)	\$ 160.00	\$ 200.00
	GPS	\$ 80.00	\$ 100.00
	GPS Antenna <i>Automatically selected when GPS option is selected in CeVo</i>	\$ 33.60	\$ 42.00



P25 Mission Critical Viking VM6000

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

Uncompromised quality and performance with public safety ergonomics, 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, Viking16, 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
- Analog & P25 Conventional vote scan
- Remote mount only (Viking Control Head)
- Dual Viking Control Heads (option)
- External speaker
- Fixed control station
- WiFi
- Bluetooth
- Instant Recording Replay (IRR)
- Voice Recording
- 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

¹Refer to the Viking VM6000 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.ejohanson.com/products/accessories.

Viking Control Head

Public safety knobs & ergonomics

High contrast transmissive color display for direct sunlight & night time viewing; not compromised by polarized sunglasses

Resolution of 480 x 128 pixels

Viewing angle of 120°

User selectable themes (8 themes available)

Day & night display options

An optional KCH-21RV Handheld Control Head (HHCH) can be used with the VM6000 radio



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

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).



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.

Radio - Base Model		Contract	List
VM6730BF	VM6000 136-174 MHZ	\$ 1,720.00	\$ 2,150.00
VM6830BF	VM6000 450-520 MHZ	\$ 1,720.00	\$ 2,150.00
VM6830BF2	VM6000 380-470 MHZ	\$ 1,720.00	\$ 2,150.00
VM6930BF	VM6000 700/800 MHZ	\$ 1,720.00	\$ 2,150.00
Mounting Accessories		Contract	List
KMB-33M	Mounting Bracket	\$ 11.20	\$ 14.00
KMB-34	Mounting Case	\$ 38.40	\$ 48.00
KPS-15	DC Switch (P/S)	\$ 138.40	\$ 173.00
KCT-46	Ignition Sense Cable	\$ 10.96	\$ 13.70
Control head		Contract	List
835VM6000VCH	Viking Control Head (VCH) <i>The pricing is valid only when purchased with the radio. If purchased separately, List price is \$1,695</i>	\$ 720.00	\$ 900.00
KCT-23M3	DC Cable-Remote	\$ 27.80	\$ 34.75
597535777502	6 Ft remote cable	\$ 80.00	\$ 100.00
597535777502	17 Ft remote cable	\$ 128.00	\$ 160.00
597535777503	50 Ft remote cable	\$ 240.00	\$ 300.00
250074031003	VCH Standard Mobile Mic	\$ 112.00	\$ 140.00
589001202303	VCH Desktop Mic	\$ 520.00	\$ 650.00
Speaker		Contract	List
2500151006	5in. 15W Speaker, Crimp Leads	\$ 60.00	\$ 75.00
KES-3S	Low Profile Ext. Speaker	\$ 60.00	\$ 75.00
KAP-2	HA / PA Relay	\$ 50.40	\$ 63.00
KES-5	40W External Speaker	\$ 49.00	\$ 61.25
Software Options		Contract	List
	Analog FM	\$ -	\$ -
	P25 CAI AMBE+2	\$ -	\$ -
	Analog Conventional	\$ -	\$ -
	P25 Conventional	\$ 280.00	\$ 350.00
	P25 Phase 1 Trunking	\$ 100.00	\$ 125.00
	P25 Phase 2 TDMA	\$ 320.00	\$ 400.00
	Viking16	\$ 620.00	\$ 775.00
	1024 Ch	\$ -	\$ -
	2048 Ch	\$ 240.00	\$ 300.00
	4096 Ch	\$ 480.00	\$600.00
	DES-OFB multi-key	\$ -	\$ -
	AES FIPS-140-2 multi-key	\$ 380.00	\$ 475.00
	ARC4 (ADP Compatible)	\$ -	\$ -
	Conventional Voting Scan	\$ -	\$ -
	TrueVoice Noise Cancellation	\$ -	\$ -
	MDC1200 / GE-Star Signaling	\$ 40.00	\$ 50.00
	P25 Data Conventional	\$ 112.00	\$ 140.00
	P25 Data Trunking (Conventional included)	\$ 160.00	\$ 200.00
	P25 Paging Decode	\$ 80.00	\$ 100.00
	OTAR (Over-the-Air-Rekeying)	\$ 600.00	\$ 750.00
	P25 Authentication	\$ 80.00	\$ 100.00

OTAP (Over-the-Air Programming)	\$ 160.00	\$ 200.00
GPS	\$ 80.00	\$ 100.00
GPS Antenna <i>Automatically selected when GPS option is selected in CeVo</i>	\$ 33.60	\$ 42.00

KENWOOD



P25 Mission Critical Viking VM5000

VHF · UHF (High & Low) · 700/800 MHz

P25 Phase 1 & 2 · Viking16

Uncompromised quality and performance with public safety ergonomics, 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, Viking16, FM Analog)

1024 channels

Mixed protocol zones

P25 Authentication (Link Layer Authentication)

P25 IP packet data

GPS AVL data (built in GPS)

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

Encryption

- ARC4™ software encryption; compatible w/Motorola ADP™
- DES-OFB
- AES-256 (FIPS 140-2) Single and Multi-Key
- Over-the-Air-Rekeying (OTAR)

Refer 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 www.efjohnson.com/products/accessories.

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

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).



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.

Radio - Base Model		Contract	List
VM5730BF	VM5000 136-174 MHZ	\$1,720.00	\$ 2,150.00
VM5830BF	VM5000 450-520 MHZ	\$1,720.00	\$ 2,150.00
VM5830BF2	VM5000 380-470 MHZ	\$1,720.00	\$ 2,150.00
VM5930BF	VM5000 700/800 MHZ	\$1,720.00	\$ 2,150.00
Mounting Accessories		Contract	List
KMB-33M	Mounting Bracket	\$ 11.20	\$ 14.00
KMB-34	Mounting Case	\$ 38.40	\$ 48.00
KPS-15	DC Switch (P/S)	\$ 138.40	\$ 173.00
KCT-46	Ignition Sense Cable	\$ 10.96	\$ 13.70
Control head		Contract	List
KCH-19VM	Dash - KCH-19	\$ 144.00	\$ 180.00
KCT-23M	DC Cable-Dash	\$ 25.20	\$ 31.50
KCT-23M3	DC Cable-Remote	\$ 27.80	\$ 34.75
KCT-71M2	17 Ft remote cable	\$ 56.00	\$ 70.00
KCT-71M3	25 Feet remote cable	\$ 64.00	\$ 80.00
597535777050	VM5000/7000 Remote Cable upto 50 Ft	\$ 240.00	\$ 300.00
597535777100	VM5000/7000 Remote Cable upto 100 Ft	\$ 400.00	\$ 500.00
KMC-35	KCH Standard Mobile Mic	\$ 42.00	\$ 52.50
KMC-36	12 Keypad Mic	\$ 33.61	\$ 42.01
KMC-9C	Desktop Mic	\$ 68.80	\$ 86.00
Speaker		Contract	List
KES-3S	Low Profile Ext. Speaker	\$ 60.00	\$ 75.00
KAP-2	HA / PA Relay	\$ 50.40	\$ 63.00
KES-5	40W External Speaker	\$ 49.00	\$ 61.25
Software Options		Contract	List
	Analog FM	\$ -	\$ -
	P25 CAI AMBE+2	\$ -	\$ -
	Analog Conventional	\$ -	\$ -
	P25 Conventional	\$ -	\$ -
	P25 Phase 1 Trunking	\$ -	\$ -
	P25 Phase 2 TDMA	\$ 320.00	\$ 400.00
	Viking16	\$ 620.00	\$ 775.00
	1024 Ch	\$ -	\$ -
	DES-OFB multi-key	\$ 156.00	\$ 195.00
	AES FIPS-140-2 multi-key (DES-OFB included)	\$ 600.00	\$ 750.00
	ARC4 (ADP Compatible)	\$ -	\$ -
	Conventional Voting Scan	\$ -	\$ -
	TrueVoice Noise Cancellation	\$ -	\$ -
	MDC1200 / GE-Star Signaling	\$ 40.00	\$ 50.00
	P25 Data Conventional	\$ 112.00	\$ 140.00
	P25 Data Trunking (Conventional incl)	\$ 160.00	\$ 200.00
	P25 Paging Decode	\$ 80.00	\$ 100.00
	OTAR (Over-the-Air-Rekeying)	\$ 600.00	\$ 750.00
	P25 Authentication	\$ 80.00	\$ 100.00
	OTAP (Over-the-Air Programming)	\$ 160.00	\$ 200.00
	GPS	\$ 80.00	\$ 100.00

GPS Antenna <i>Automatically selected when GPS option is selected in CeVo</i>	\$ 33.60	\$ 42.00
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P25 Mission Critical

Viking VM900

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

Dual-band and multi-system radio equipped with industry leading audio, color display, public safety ergonomics, and advanced features including Over-the-Internet (OTIP) programming.



Features

- Mixed protocol operation (P25 Phase 1 & 2 Trunking, P25 Conventional, Viking16, FM Analog)
- 2048 channels
- Mixed protocol zones
- P25 Authentication (Link Layer Authentication)
- P25 IP packet data
- GPS AVL data (requires external GPS receiver)
- MDC-1200 & GE-Star signaling
- Analog & P25 Conventional vote scan
- Dash mount
- Remote mount
- Dash mount with remote control head
- Dual control heads
- Fixed control station
- Encryption
 - ARC4™ software encryption; compatible w/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)

Viking Control Head

- Public safety knobs & ergonomics
- High contrast transmissive color display for direct sunlight & nighttime viewing; not compromised by polarized sunglasses
- Resolution of 480 x 128 pixels
- Viewing angle of 120°

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.ejohanson.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 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.

	Radio - Base Model	Contract	List
	700/800 MHz, 762-870 MHz + VHF, 30/35W Dash Mount	\$ 2,140.00	\$ 2,675.00
	700/800 MHz, 762-870 MHz + VHF, 30/35W Remote Mount	\$ 2,140.00	\$ 2,675.00

	700/800 MHz, 762-870 MHz + VHF, 30/35W Control Station (includes Power supply & cabinet)	\$ 2,376.00	\$ 2,970.00
	700/800 MHz, 762-870 MHz, 30/35W Dash Mount (Single Band)	\$ 1,408.00	\$ 1,760.00
	700/800 MHz, 762-870 MHz, 30/35W Remote Mount (Single Band)	\$ 1,408.00	\$ 1,760.00
	700/800 MHz, 762-870 MHz, 30/35W Control Station (includes Power supply & cabinet) (Single Band)	\$ 1,752.00	\$ 2,190.00
	VHF, 30/35W Dash Mount (Single Band)	\$ 1,408.00	\$ 1,760.00
	VHF, 30/35W Remote Mount (Single Band)	\$ 1,408.00	\$ 1,760.00
	VHF, 30/35W Control Station (includes Power supply & cabinet) (Single Band)	\$ 1,752.00	\$ 2,190.00
	Control Head Type	Contract	List
	<i>Dash Mount Options</i>		
	<i>Standard LCD Control Head</i>	\$ -	
	Dash-Mount Control Head (includes standard palm mic)	\$ 64.00	\$ 80.00
	Dash-Mount Control Head with no mic	\$ -	\$ -
	Dash-Mount Control with Remote Control Head (includes one remote control head & normal bracket)	\$ 600.00	\$ 750.00
	<i>Viking Control Head</i>	\$ -	
	Dash-Mount Control Head (includes standard palm mic & external speaker)	\$ 688.00	\$ 860.00
	Dash-Mount Control Head with no mic (includes external speaker)	\$ 624.00	\$ 780.00
	Dash-Mount Control with Remote Control Head (includes one remote control head, additional mic & remote control head)	\$ 1,752.00	\$ 2,190.00
	<i>Remote Mount Options</i>		
	<i>Standard LCD Control Head</i>	\$ -	
	Remote Control Head (includes standard palm mic)	\$ 440.00	\$ 550.00
	Remote Control Head with no mic	\$ 376.00	\$ 470.00
	Dual Control Head (includes two remote control heads attached to the remote mount radio, two microphones, and two mounting brackets)	\$ 960.00	\$ 1,200.00
	Dual Control Head with no mics	\$ 832.00	\$ 1,040.00
	<i>Remote Mount Options</i>		
	<i>Viking Control Head</i>	\$ -	
	Remote Control Head (includes standard palm mic & external speaker)	\$ 1,056.00	\$ 1,320.00
	Remote Control Head with no mic (includes external speaker)	\$ 992.00	\$ 1,240.00
	Dual Control Head (includes two remote control heads attached to the remote mount radio, two microphones, two mounting brackets, and two external speakers)	\$ 2,192.00	\$ 2,740.00

	Dual Control Head with no mics (includes two external speakers)	\$ 2,064.00	\$ 2,580.00
	Accessory Cable	Contract	List
	Cable, Serial, USB, Standard Interface R597-5357-70201 (included with dash mount)	\$ -	\$ -
	Cable, Single remote, Serial, USB, Standard Interface R597-5357-70701 (included with remote mount)	\$ -	\$ -
	Cable, Single remote, Serial, USB, Standard Interface R597-5357-70701 (dash mount)	\$ 124.00	\$ 155.00
	Cable, Single Remote, Serial, USB, PVP/UDDI, Standard Interface R597-5357-73801 (remote mount)	\$ 144.00	\$ 180.00
	Cable, Dual Remote, Serial, USB, Standard R597-5357-74201 (included with remote dual mount)	\$ -	\$ -
	Cable, Dual Remote, Serial, USB, Standard R597-5357-74201 (single remote mount)	\$ 96.00	\$ 120.00
	CABLE, DUAL REMOTE, SERIAL,USB, PVP/UDDI, STD R597-5357-74401 (may be ordered with dual Remote Mount)	\$ 428.80	\$ 536.00
	Protocol	Contract	List
1	Analog FM	\$ -	\$ -
2	Digital/Project 25 CAI AMBE+2 with Free Single-Key DES-OFB (includes protocol option 1)	\$ 280.00	\$ 350.00
	System Option	Contract	List
1	Conventional System	\$ 440.00	\$ 550.00
2	Viking16	\$ 620.00	\$ 775.00
	<i>The following selections require Protocol Option 2 (Digital/Project 25 CAI AMBE+2):</i>		
3	Project 25 Conventional System	\$ 440.00	\$ 550.00
4	Project 25 Phase 1 Trunking Only (includes system option 4)	\$ 620.00	\$ 775.00
5	Project 25 Phase 2 TDMA (includes system option 4 & 5)	\$ 940.00	\$ 1,175.00
6	Project 25 Phase 1 Trunking and Viking16 Trunking (includes system options 2 & 4)	\$ 780.00	\$ 975.00
7	Project 25 Phase 2 TDMA and Viking16 (includes system options 2, 4 & 5)	\$ 1,100.00	\$ 1,375.00
	Optional Features	Contract	List
	Channels/Talkgroups		
	1024 Channels/Talkgroups (standard)	\$ -	\$ -
	Encryption (requires Protocol Option 2 - Digital/Project 25 CAI AMBE+2)		
	Single-Key DES-OFB (included with Protocol Option 2)	\$ -	\$ -
	Single-Key AES	\$ 120.00	\$ 150.00
	DES-OFB (multi-key)	\$ 440.00	\$ 550.00
	AES (multi-key)	\$ 380.00	\$ 475.00
	ARC4 (ADP compatible)	\$ -	\$ -
	Programming & Data		
	MDC1200/GE-Star Signaling	\$ 40.00	\$ 50.00
	<i>The following selection requires Protocol Option 2 (Digital/Project 25 CAI AMBE+2):</i>		
	Project 25 Data Conventional	\$ 112.00	\$ 140.00
	Project 25 OTAR Conventional & Trunking	\$ 600.00	\$ 750.00

	P25 Paging Decode	\$ 80.00	\$ 100.00
	OTAP (Over-the-Air Programming)	\$ 160.00	\$ 200.00
	OTIP (Over-the-Intranet Programming)	\$ 160.00	\$ 200.00
	<i>The following selections require a System Option 5-8 (options with Phase 1 or Phase 2):</i>		
	Project 25 Authentication	\$ 80.00	\$ 100.00
	Project 25 Data Trunking (includes Project 25 Data Conventional)	\$ 160.00	\$ 200.00
	GPS	\$ 160.00	\$ 200.00
	EVRS	\$ 80.00	\$ 100.00

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		Contract Price	List Price
336-1212-101	ATLAS 1200 P25 STATION 100W VHF 148-174MHz Includes one standalone 100W, 12.5/25Khz, Analog/P25 multimode VHF station.	\$ 10,800.00	\$ 13,500.00
336-1224-101	ATLAS 1200 P25 STATION 100W UHF 450-485MHz Includes one standalone 100W, 12.5/25Khz, Analog/P25 multimode UHF station.	\$ 10,800.00	\$ 13,500.00
336-1241-101	ATLAS 1200 P25 STATION 100W 800 MHZ Includes one standalone 100W, 12.5/25Khz, Analog/P25 multimode 800 MHz station.	\$ 12,200.00	\$ 15,250.00
336-1224-102	ATLAS 1200 P25 STATION 100W UHF (450-485MHz) 1PPM STAB Includes one standalone 100W, 12.5/25Khz, Analog/P25 multimode UHF station with high stability.	\$ 13,180.00	\$ 16,475.00
336-1200-082	ATLAS 1200 P25 BASE STATION DFSI LICENSE KEY Includes one license key for P25 DFSI (Digital Fixed Station Interface).	\$ 1,320.00	\$ 1,650.00
336-1200-000	ATLAS 1200 TOOLS PROGRAMMING KIT Includes programming software and cable.	\$ 236.00	\$ 295.00
336-1200-091	ATLAS 1200 POWER SUPPLY KIT ATLAS 1-STATION VHF/UHF 120/240VAC Includes single power supply, rack mount kit and power cable.	\$ 720.00	\$ 900.00
336-1200-092	ATLAS 1200 POWER SUPPLY KIT ATLAS 1-STATION 700/800 120/240VAC Includes single power supply, rack mount kit and power cable.	\$ 1,240.00	\$ 1,550.00