State Of West Virginia

Two-Way Digital Mobile Radios

Request For Quotation Number DSP0816

Due: January 9, 2008 at 1:30 PM



KENWOOD

RECEIVED

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PURCHASING DIVISION STATE OF WY



January 4, 2008

Mr. John Abbott
West Virginia State Police
4124 Kanawha Turnpike
South Charleston, WV 25309

Dear Mr. Abbott,

Kenwood USA Corporation would like to thank you and your staff for the opportunity to respond to your Request for Quotation for Two-Way Digital Mobile Radios, DSP0816. Kenwood has been producing and distributing high quality two-way radio equipment worldwide since 1946. Kenwood is an ISO 9001 & JQA-1205 certified company and all of our radios are designed, engineered and produced at Kenwood's own manufacturing facilities by Kenwood employees. The radio equipment offered in this proposal is currently in use by several Federal agencies and many state and local agencies throughout the country. The equipment has recently been accepted by the City of Charleston, WV and we are in the process of delivering equipment. Additional references are listed in this letter.

With this response we have included specification sheets and service manuals for the equipment represented in our proposal. We have also included a unique price page that lists many options for the equipment that were not requested in your RFQ. We believe that by making our entire digital mobile radio product line available through this proposal, the State and local agencies in West Virginia will have access to options for their equipment that will serve them the best. An example of the options available is a Dual Control Head Kit that will allow agencies to install the radios in vehicles such as mobile command posts and tactical vehicles, allowing two control points for the radio.

Kenwood recognizes West Virginia Code 5A-3-37 related to preferences offered to qualified bidders. We understand the importance of acknowledging local businesses and enticing them to participate it State business. Kenwood also values the expertise and responsiveness of local businesses and understand they have a vested interest it the project.

Kenwood USA Corporation currently works directly with eight Authorized Kenwood Sales and Service Centers, "affiliates" throughout the State of West Virginia. Each of these affiliates have been in business in West Virginia for many years and cumulatively employ well over 100 sales and support professional who are residents of West Virginia. It is Kenwood's intension to utilize these affiliate companies to support the anticipated contract award from this proposal. We will empower our dealer affiliates to act as our agent, communicate with agencies, articulate the agencies needs and act as liaison for Kenwood in support of the contract. We will financially compensate our dealer affiliates for their involvement and continued product support to agencies on a local level. We support the idea of local communications professionals supporting local public safety communications needs, supported by a capable national corporation and qualified vendor. The practice described will also contribute to the State economy by way of contributing to employee salaries across our dealer network. Based on this support model, Kenwood is applying for, and requests preference based West Virginia Code 5A-3-37 as indicated in our response.

Kenwood USA Corporation is compliant with all Terms and Conditions of the RFQ and meet the radio equipment specifications with the exception of the two items listed below.

1. Bandwidth: Specification 1.1.1 and 2.1.1 require the equipment operate from 380-470 MHz. The radio equipment offered is capable of operating from 400-470 MHz. The equipment proposed was designed specifically for U.S. public safety agencies and the FCC has allocated 380-400 MHz for military use only. Therefore, the Kenwood design team focused on achieving the best specifications possible within the public safety assignable frequency spectrum. We have attempted to identify 380-400 MHz channels

licensed to public safety agencies in the State but cannot. In order to help us understand this requirement, we contacted Enterprise Wireless Alliance and talked with Mr. Ron Franklin. Mr. Franklin indicated that there are no assigned public safety channels between 380-400 MHz in the State and there is fierce competition form the federal government to obtain any available channels that may exist. We have included a correspondence from Mr. Franklin to qualify this topic. Due to the lack of assignable or current channels within the bandwidth, Kenwood requests this specification exception be accepted.

2. Receiver Audio: Specification 2.1.9 and 2.2.9 require 5 watts of receiver audio from and internal speaker. The equipment offered has an internal speaker capable of 4 watts of output power and we believe this one watt deficiency may not be detectable by the average person. Kenwood is a world leader in audio quality from our consumer business and the volume or audibility of the internal speaker used on this equipment has never been challenged. Additionally, the specifications require the equipment will be supplied with an external speaker. Kenwood's proposed external speaker provides 13 watts of output power. Due to the inclusion of an external speaker and the deficiency of only one watt of output power, we request this specification exception be accepted.

As an option, we have offered a more full featured control head for the radio that eliminates the internal speaker and provides more functionality and greater alpha-numeric characters in the radio's display. This upgraded control head can be substituted at no additional cost.

We have identified an irregularity in your specifications vs. your price quotation page and the following will articulate how we addressed it.

Page 1 of the specifications identifies 1.1 ITEM#1 as a UHF radio. Your price quotation, page 21, indentifies Item #1 as a VHF radio.

Page 3 of the specifications identifies 1.2 ITEM#2 as a VHF radio. Your price quotation page 21, indentifies Item #2 as a UHF radio.

Page 4 of the specifications identifies 2.1 ITEM#3 as a UHF radio. Your price quotation, page 21, indentifies Item #3 as a VHF radio.

Page 6 of the specifications identifies 2.2 ITEM#4 as a VHF radio. Your price quotation, page 21, indentifies Item #4 as a UHF radio.

We have added to your price quotation page and changed the required frequency band to correspond with you specifications. Our additions to your price quotation page are in blue print for ease of identification.

We look forward to discussing this proposal in detail. We are eager to support the State of West Virginia and partner with our dealer affiliates to fulfill the needs of all State and local agencies. If you or your staff have any questions or comments, please do not hesitate to contact me at (800) 752-0986, X8280 or via my cellular telephone at (310) 779-1381. Again, thank you for the opportunity to provide this quotation.

Respectfully,

Barry Morris

Public Safety Sales Manager

KENWOOD USA CORPORATION

Barry Morris

Kenwood User references are listed below and contact information can be provided upon request.

BECHTEL BETTIS, PITTSBURG, PA
CITY OF CHARLESTON, WV
DODDRIDGE COUNTY 911, WV
LINCOLN COUNTY 911, WV
BROOK COUNTY, WV
HAMPSHIRE COUNTY, WV
GRANDVILLE POLICE DEPARTMENT, WV
PERKINS TWP. SANDUSKY, OH
KENTUCKY PARKS DEPARTMENT
KENTUCKY DEPARTMENT OF MILITARY AFFAIRS
HARDIN COUNTY, KY
HARDIN COUNTY, KY
KENTUCKY DEPARTMENT OF MILITARY AFFAIRS
WISCONSON DEPARTMENT OF NATURAL RESOURCES

Barry Morris

From:

Matt Baker

Sent:

Monday, January 07, 2008 4:14 PM

To:

Barry Morris

Subject:

West Virginia

Attachments: ntia Manual.335.4 to 399.9 MHz.pdf

Barry

Pursuant to your request for information regarding 380-400Mhz spectrum with-in the state of West Virginia, I contacted EWA for their interpretation of the FCC rules and regulations. Please see their response below.

Thanks Matt Baker

---- Original Message ----

From: Ron Franklin

To: mattc.baker@comcast.net

Cc: Mark Crosby

Sent: Monday, January 07, 2008 8:49 AM

Subject: West Virginia

Mr. Baker,

Good morning. Here is an extract from the U.S. Government Table of Frequency Allocations from the Manual of Regulations and Procedures for Federal Radio Frequency Management (Redbook) maintained by the National Telecommunications and Information Administration (NTIA).

The extract shows that Under the UNITED STATES TABLE frequencies 335.4 to 399.9 MHz are allocated to the Federal side for Fixed and Mobile operations.

Plus here is a link to NTIA and the rules.

http://www.ntia.doc.gov/osmhome/redbook/redbook.html

If you have any questions please let me know.

Regards, Ron Franklin

Director, Wireless Solutions Enterprise Wireless Alliance

Vox: 703 797 5166 Fax: 703 524 1074

Email: ron@enterprisewireless.org

EWA has expanded it's Customer Service with the addition of a second phone line to assist you with

requests for licensing, application status and fee quotes. The new telephone number is 1-800-886-4222

EWA now offers a "Premier" membership level that includes

5 great services to enhance your business!

Call Karin Norton, V.P., Membership, at 703.797.5127 for details.

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Table of Frequency Allocations	267-410 MHz (VHF/UHF)		** Proprocessor Community of Co
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273-312 FIXED MOBILE			
5.254			
312-315 FIXED MORI E			
Mobile-satellite (Farth-to-space) 5.254 5.255			
315-322 FIXED MOBILE			
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322-328.6 FIXED MOBILE RADIO ASTRONOMY	322-328.6 FIXED MOBILE	322-328.6	
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5.254			
387-390 FIXED MOBILE Mobile-satellite (space-to-Earth), 5.208A, 5.254, 5.255			
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GENERAL TERMS & CONDITIONS REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)

- 1. Awards will be made in the best interest of the State of West Virginia.
- 2. The State may accept or reject in part, or in whole, any bid.
- 3. All quotations are governed by the West Virginia Code and the Legislative Rules of the Purchasing Division.
- Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125.00 registration fee.
- 5. All services performed or goods delivered under State Purchase Orders/Contracts are to be continued for the term of the Purchase Order/Contract, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods, this Purchase Order/Contract becomes void and of no effect after June 30.
- 6. Payment may only be made after the delivery and acceptance of goods or services.
- 7. Interest may be paid for late payment in accordance with the West Virginia Code.
- 8. Vendor preference will be granted upon written request in accordance with the West Virginia Code.
- 9. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
- 10. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
- 11. The laws of the State of West Virginia and the Legislative Rules of the Purchasing Division shall govern all rights and duties under the Contract, including without limitation the validity of this Purchase Order/Contract.
- 12. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
- 13. BANKRUPTCY: In the event the vendor/contractor files for bankruptcy protection, this Contract may be deemed null and void, and terminated without further order.
- 14. HIPAA Business Associate Addendum The West Viginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, and available online at the Purchasing Division's web site (http://www.state.wv.us/admin/purchase/vrc/hipaa.htm) is hereby made part of the agreement. Provided that, the Agency meets the definition of a Covered Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.

INSTRUCTIONS TO BIDDERS

- 1. Use the quotation forms provided by the Purchasing Division.
- 2. SPECIFICATIONS: Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as EQUAL to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
- 3. Complete all sections of the quotation form.
- 4. Unit prices shall prevail in cases of discrepancy.
- 5. All quotations are considered F.O.B. destination unless atternate shipping terms are clearly identified in the quotation.
- 6. BID SUBMISSION: All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications.

SIGNED BID TO:

Department of Administration Purchasing Division 2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130



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State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

Request for Quotation

DPS0816

PAGE

JOHN ABBOTT 304-558-2544

RFQ COPY
TYPE NAME/ADDRESS HERE
Kenwood USA Corporation
P.O. Box 22745
2201 E. Dominguez Street
Long Beach CA 90801-5745

WEST VIRGINIA STATE POLICE

ADDRESS CORRESPONDENCE TO ATTENTION OF

4124 KANAWHA TURNPIKE SOUTH CHARLESTON, WV 25309 304-746-2141

ADDRESS CHANGES TO BE NOTED ABOVE

SHIP VIA TERMS OF SALE DATE PRINTED FOB. FREIGHT TERMS PrePaid 12/17/2007 2% 20, Net 30 Days Surface delivery Destination BID OPENING DATE 01/09/2008 BID OPENING TIME 01:30PM LINE QUANTITY UOP ITEM NUMBER UNIT PRICE AMOUNT 0001 725-74 LS See Price Quote See Price Quote Page 21 Page 21 TWO-WAY DIGITAL MOBILE RADIOS OPEN-END CONTRACT TO PROVIDE TWO-WAY MOBILE DIGITAL VHF & UHF RADIOS FOR THE WEST VIRGINIA STATE POLICE PER THE SPECIFICATIONS. EXHIBIT 3 THIS CONTRACT BECOMES EFFECTIVE ON LIFE OF CONTRACT: YEAR OR UNTIL SUCH "REASONABLE TIME" THEREAFTER AS IS NECESSARY TO DBTAIN A NEW CONTRACT OR RENEW THE ORIGINAL CONTRACT. THE "REASONABLE TIME" PERIOD SHALL DURING THIS "REASONABLE NOT EXCEED TWELVE (12) MONTHS. TIME" THE VENDOR MAY TERMINATE THIS CONTRACT FOR ANY REASON UPON GIVING THE DIRECTOR OF PURCHASING 30 DAYS WRITTEN NOTICE. UNLESS SPECIFIC PROVISIONS ARE STIPULATED ELSEWHERE IN THIS CONTRACT DOCUMENT, THE TERMS, CONDITIONS AND PRICING SET HEREIN ARE FIRM FOR THE LIFE OF THE CONTRACT. RENEWAL: THIS CONTRACT MAY BE RENEWED UPON THE MUTUAL WRITTEN CONSENT OF THE SPENDING UNIT AND VENDOR, SUBMITTED TO THE DIRECTOR OF PURCHASING THIRTY (30) DAYS PRIOR TO THE EXPIRATION DATE. SUCH RENEWAL SHALL BE IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THE SEE REVERSE SIDE FOR TERMS AND CONDITIONS VATURE TELEPHONE (800)752-0986, X8280 Barry Morris 01/03/08

95-2948901

Public Safety Sales Manager



YENDOR RODARY State of West Virginia Department of Administration Purchasing Division 2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130

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State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

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Public Safety Sales Marager

WEST VIRGINIA STATE POLICE

4124 KANAWHA TURNPIKE SOUTH CHARLESTON, WV 25309 304-746-2141

ADDRESS CHANGES TO BE NOTED ABOVE

DATE PRINTED TERMS OF SALE SHIP VIA F.O.B. FREIGHTTERMS Destination PrePaid 12/17/2007 2% 20, Net 30 Days Surface delivery BID OPENING DATE: 01/09/2008 BID OPENING TIME 01:30PM LINE QUANTITY HOP ITEM NUMBER UNIT PRICE AMOUNT ORDER. THE TERMS AND CONDITIONS CONTAINED IN THIS CONTRACT SHALL SUPERSEDE ANY AND ALL SUBSEQUENT TERMS AND CONDITIONS WHICH MAY APPEAR ON ANY ATTACHED PRINTED DOCUMENTS SUCH AS PRICE LISTS, ORDER FORMS, SALES AGREEMENTS OR MAINTENANCE AGREEMENTS, INCLUDING ANY ELECTRONIC MEDIUM SUCH AS CD-ROM. REV. 04/11/2001 EXHIBIT 4 LOCAL GOVERNMENT BODIES: UNLESS THE VENDOR INDICATES IN THE BID HIS REFUSAL TO EXTEND THE PRICES, TERMS, AND CONDITIONS OF THE BID TO COUNTY, SCHOOL, MUNICIPAL AND OTHER LOCAL GOVERNMENT BODIES, THE BID SHALL EXTEND TO POLITICAL SUBDIVISIONS OF THE STATE OF WEST IF THE VENDOR DOES NOT WISH TO EXTEND THE PRICES, TERMS, AND CONDITIONS OF THE BID TO ALL POLITICAL SUBDIVISIONS OF THE STATE, THE VENDOR MUST CLEARLY INDICATE SUCH REFUSAL IN HIS BID. SUCH REFUSAL SHALL NOT PREJUDICE THE AWARD OF THIS CONTRACT IN ANY MANNER. REV. 3/88 PURCHASING CARD ACCEPTANCE: THE STATE OF WEST VIRGINIA CURRENTLY UTILIZES A VISA PURCHASING CARD PROGRAM WHICH IS ISSUED THROUGH A BANK. THE SUCCESSFUL VENDOR MUST ACCEPT THE STATE OF WEST VIRGINIA VISA PURCHASING CARD FOR PAYMENT OF ALL ORDERS PLACED BY ANY STATE GENCY AS A CONDITION OF AWARD. VENDOR PREFERENCE CERTIFICATE CERTIFICATION AND APPLICATION* IS HEREBY MADE FOR SEE REVERSE SIDE FOR TERMS AND CONDITIONS: TELEPHONE (800)752-0986, X8280 01/03/08 Jany N <u>Barry Morris</u>

95-2948901



VENDOR

RFQ COPY

P.O. Box 22745

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Kenwood USA Corporation

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Long Beach CA 90801-5745

State of West Virginia Department of Administration Purchasing Division 2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130

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RFQ COPY TYPE NAME/ADDRESS HERE Kenwood USA Corporation P.O. Box 22745 2201 E. Dominguez Street Long Beach CA 90801-5745

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Barry Morris		my				2-0986, X8280	01/03/08
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State of West Virginia Department of Administration Purchasing Division 2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130

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WEST VIRGINIA STATE POLICE

4124 KANAWHA TURNPIKE SOUTH CHARLESTON, WV 25309 304-746-2141

ADDRESS CHANGES TO BE NOTED ABOVE

TERMS OF SALE SHIP VIA FOB FREIGHTTERMS DATE PRINTED PrePaid 12/17/2007 Surface delivery Destination 2% 20, Net 30 Days BID OPENING DATE 01/09/2008 BID OPENING TIME 01:30PM ITEM NUMBER UNIT PRICE LINE QUANTITY UOP AMOUNT COMMISSIONER TO BE CONFIDENTIAL. UNDER PENALTY OF LAW FOR FALSE SWEARING (WEST VIRGINIA CODE 61-5-3), BIDDER HEREBY CERTIFIES THAT THIS CERTIFICATE IS TRUE AND ACCURATE IN ALL RESPECTS; AND THAT IF A CONTRACT IS ISSUED TO BIDDER AND IF ANYTHING CONTAINED WITHIN THIS CERTIFICATE CHANGES DURING THE TERM OF THE CONTRACT, BIDDER WILL NOTIFY THE PURCHASING DIVISION IN WRITING IMMEDIATELY. Kenwood USA Corporation 01/03/08 DATE: Barry Morris SIGNED: TITLE: _ Public Safety Sales Manager * CHECK ANY COMBINATION OF PREFERENCE CONSIDERATION(S) IN EITHER "A" OR "B", OR BOTH "A" AND "B" WHICH YOU ARE ENTITLED TO RECEIVE. YOU MAY REQUEST UP TO THE MAXIMUM 5% PREFERENCE FOR BOTH "A" AND "B". (REV. 12/00) NOTICE A SIGNED BID MUST BE SUBMITTED TO: DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130 SEE REVERSE SIDE FOR TERMS AND CONDITIONS TELEPHONE 752-0986, X8280 01/03/08 Barry Morris Public Safety Sales Manager 95-2948901



VENDOR

State of West Virginia Department of Administration Quotation Purchasing Division 2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130

Request for BEQNUMBER

DPS0816

ADDRESS CORRESPONDENCE TO ATTENTION OF

JOHN ABBOTT 304-558-2544

RFQ COPY TYPE NAME/ADDRESS HERE Kenwood USA Corporation

P.O. Box 22745 2201 E. Dominguez Street Long Beach CA 90801-5745 WEST VIRGINIA STATE POLICE

4124 KANAWHA TURNPIKE SOUTH CHARLESTON, WV 304-746-2141

TERMS OF SALE DATE PRINTED SHIP VIA FOR FREIGHT TERMS PrePaid Surface delivery Destination 12/17/2007 2% 20, Net 30 Days BID OPENING DATE: 01/09/2008 BID OPENING TIME 01:30PM UNIT PRICE 1 INF QUANTITY LIOP ITEM NUMBER AMOUNT THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED: SEALED BID BUYER: JOHN ABBOTT-----RFQ. NO.: BID OPENING DATE: 01/09/2008-----BID OPENING TIME: 1:30 PM-----PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID: CONTACT PERSON (PLEASE PRINT CLEARLY): Barry Morris Kenwood USA Corporation Phone: (800) 752-0986, Ext. 8280 (310)761-8246 Fax: SEE REVERSE SIDE FOR TERMS AND CONDITIONS Bary Morris TELEPHONE (800)752-0986, X8280 01/03/08 Barry Morris Public Safety Sales Manager 95-2948901 ADDRESS CHANGES TO BE NOTED ABOVE



VENDOR

State of West Virginia Department of Administration Purchasing Division 2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130

Request for AFONUMBER Quotation

DPS0816

ADDRESS CORRESPONDENCE TO ATTENTION OF

JOHN ABBOTT 304-558-2544

RFQ COPY TYPE NAME/ADDRESS HERE Kenwood USA Corporation P.O. Box 22745 2201 E. Dominguez Street Long Beach CA 90801-5745

ST-P FO

WEST VIRGINIA STATE POLICE

4124 KANAWHA TURNPIKE SOUTH CHARLESTON, WV 304-746-2141 25309

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VHF and UHF DIGITAL MOBILE RADIO SPECIFICATIONS

The West Virginia State Police desire to establish an open-end contract for the purchase of digital mobile radio equipment and related accessories. The contract shall be available for use by the WV Division of Natural Resources Law Enforcement Section and all other entities of state government, as well as counties and municipalities as this will assist in the State's Interoperable Radio Project.

				Con	iply?	
1.			quality, high power APCO P-25 512 channel with remote mount capability	<u>Yes</u>	<u>No</u>	
			– 100 Watt UHF Digital Mobile – P-25 Trunking noludes P-25 CAI)	Br	١	
	1.1.1	for tra) watt mobile radio, with remote mounting capability ansmitter/receiver unit capable of operating in the 470 MHz band shall be provided.	/	ificatio	n in
	1.1.2	and n	shall be capable via programming of wide band arrow band operation (12.5 kHz/25 kHz ctively), and capable of storing 512 channels.	X		
	1.	1.2.1	Each channel shall be individually programmable with regard to wideband/narrowband operation, digital/analog operation, and/or trunked/non-trunked operation.	X		
	1.1.3	what given	shall be no limitations in the radio with regard to channels may be programmed into the radio in a bank and in a particular mix of nels/talkgroups.	X		
	1.1	1.3.1	All currently licensable frequencies shall be considered acceptable to the unit.	<u> </u>		
	1.1.4		nel indication shall be by way of an alphanumeric y containing a minimum of 10 digits.	<u> </u>		

1.1.5		shall have ID display capability Radio shall have	X	
	of one	ammable encode and decode capability for both SS tones and digital coded squelch with a minimum e pair of tones, not necessarily the same, for each ammed channel.		
1.1.6	It sha	Il transmit with a minimum of 100 watts RF output.	X	
1.1.7		iver audio stage shall be capable of a minimum of atts of audio.	<u>X</u>	
1.1.8		peaker shall be driven by this audio amplifier and be capable of dissipating the entire audio bility.	X	
1.1	.8.1	An external speaker shall be provided with the unit.	X	
1.1.9	A star	ndard microphone shall be provided.	X	
1.1.10		shall include software for P-25 CAI and P-25 ed operation.	<u>X</u>	
1.1.11	enable syster opera	shall include any other software necessary to e seamless roaming operation on the WVIRP radio in presently being installed in West Virginia, and tional in Harrison, Marion, and Monongalia, ley, and other counties	<u>X</u>	
		shall be capable of interfacing for data output.	X	
1.1	.12.1	If internal hardware is necessary in the radio, a	X	
		price will be given for installation of that hardware at the time of purchase if option (Mobile Data Hardware Interface) is exercised.		
1.1	.12.2	Associated software or hardware, which shall	<u> </u>	
		include programming cable(s) external to the radio necessary for utilization of the radio in a data mode will be priced as a separate option (Mobile Data Software Interface) and shall be available either at time of purchase or at a later time as an independent purchase item.		

1.1.1		ecessary hardware to mount radio to vehicle,	X	
		ally in the trunk area, shall be provided as part of package.		
1.1.1		note mounted head shall be provided have a cable illitate connection to the remote mounted trunk unit	X	
		st 20 feet.		
1.1.1		eparate power cable is necessary, it shall be at 25 feet in length.	<u>X</u>	
1.1.1	6 A mik	e hangup shall be provided.	<u>X</u>	
1.2 IT	EM #2	– 100 Watt VHF Digital Mobile – P-25 CAI ready		
1.2.1	A 100	watt mobile radio, with remote mounting capability nsmitter/receiver unit capable of operating in the	X	
		74 MHz band shall be provided.		
1.2.2		shall be capable via programming, of wide band	<u>X</u>	
		arrow band (12.5 kHz/30 kHz respectively) tion, and capable of storing 512 channels.		
1.:	2.2.1	Each channel shall be individually programmable with regard to wideband/narrowband operation,	<u>X</u>	
		digital/analog operation, and/or trunked/non-trunked operation.		
1.2.3		shall be no limitations in the radio with regard to	X	
	given i	hannels may be programmed into the radio in a can be and in a particular mix of els/talkgroups.		
1.2		All currently licensable frequencies shall be considered acceptable to the unit.	X	
1.2.4	Chann display	el indication shall be by way of an alphanumeric containing a minimum of 10 digits.	X	
1.2.5	Radio	shall have ID display capability Radio shall have	X	
	CTCSS	mmable encode and decode capability for Stones, digital coded squelch, and NAC codes,		
		minimum of one pair of tones, not necessarily the for each programmed channel.		
126	It chall	transmit with a minimum of 100 watta BE autout	77	

	1.2.7		eiver audio stage shall be capable of a minimum of watts of audio.	X	· · · · · · · · · · · · · · · · · · ·	
	1.2.8	mus	speaker shall be driven by this audio amplifier and to be capable of dissipating the entire audio ability.	X	<u>_</u>	
	1.2.9	An e	external speaker shall be provided with the unit.	<u> </u>		
	1.2.10	0 A sta	andard microphone shall be provided.	X		
	1.2.1	25 C	io shall include all software to operate at least to P-CAI standards compatible with the WV DNR Law recement Section VHF radio system.	<u> </u>	<u></u>	
	1.2.12	norn	necessary hardware to mount radio to vehicle, nally in the trunk area, shall be provided as part of package.	X		
	1.2.13	to fa	mote mounted head shall be provided have a cable cilitate connection to the remote mounted trunk unit ast 20 feet.	<u> </u>		
	1.2.14		eparate power cable is necessary, it shall be at 25 feet in length.	<u>X</u>		
	1.2.15	A mi	ke hangup shall be provided.	<u> </u>	****	
2.	TEIR 2 – mobile ra		um Power, Underdash APCO P-25 512 channel			
			s - UHF Digital Mobile – P-25 Trunking ready es P-25 CAI)			
	2.1.1		obile under dash type radio (one piece) capable of ating in the 380 - 470 MHz band shall be provided.	See Clarii Cover Leti		Ln
	2.1.2		o shall be capable via programming of wide band narrow band operation.	X		
	2.1	1.2.1	Each channel shall be individually programmable with regard to wideband/narrowband operation, and digital/analog operation.	X		

2.1.3		shall be no limitations in the radio with regard to channels may be programmed into the radio.	<u>X</u>	***************************************	
2.1	1.3.1	All currently licensable frequencies shall be considered acceptable to the unit. It shall have maximum dimensions of 7.5" W x 3.5" H x 11" D.	X	-manda et e	
2.1	1.3.2	It shall be capable of storing a minimum of 512 channels.	X		
2.1.4		nel indication shall be by way of an alphanumeric y containing a minimum of 10 digits.	X		
2.1.5	Radio	shall have ID display capability.	X		
2.1.6		ront panel is sloped, the amount of slope shall not ater than 20 degrees.	X		
2.1.7	capab squelo	shall have programmable encode and decode ility for both CTCSS tones and digital coded the with a minimum of one pair of tones, not sarily the same, for each programmed channel.	X		
2.1.8	It shall	transmit with a minimum of 40 watts RF.	X		
	Receiv	transmit with a minimum of 40 watts RF. ver audio stage shall be capable of a minimum of sof audio from the internal speaker.			tion in
2.1.9	Receive 5 watts	ver audio stage shall be capable of a minimum of sof audio from the internal speaker. beaker shall be driven by this audio amplifier and be capable of dissipating the entire audio	See Cla	rifica	tion in
2.1.9 2.1.10	Receive 5 watts The spread to	ver audio stage shall be capable of a minimum of sof audio from the internal speaker. beaker shall be driven by this audio amplifier and be capable of dissipating the entire audio	See Cla	rifica	tion in
2.1.9 2.1.10 2.1	Receive 5 watts The spread to capable 10.1 .10.2	ver audio stage shall be capable of a minimum of sof audio from the internal speaker. beaker shall be driven by this audio amplifier and be capable of dissipating the entire audio	See Cla Cover I	rifica	tion in
2.1.9 2.1.10 2.1 2.1	Receives 5 watts The spread to the space of	ver audio stage shall be capable of a minimum of sof audio from the internal speaker. Deaker shall be driven by this audio amplifier and be capable of dissipating the entire audio dility. An external speaker will be provided with the unit. When the external speaker is in use, any internal	See Cla Cover I X	rifica	tion in
2.1.9 2.1.10 2.1 2.1 2.1	Receives watts The spread to the space of th	ver audio stage shall be capable of a minimum of sof audio from the internal speaker. Deaker shall be driven by this audio amplifier and be capable of dissipating the entire audio slity. An external speaker will be provided with the unit. When the external speaker is in use, any internal speaker shall be capable of being disabled. If the internal speaker is mounted on the radio front panel, then the external speaker may be	See Cla Cover I X X	rifica	tion in

ena sys ope	s shall include any other software necessary to able seamless roaming operation on the WVIRP radio stem presently being installed in West Virginia, and erational in Harrison, Marion, and Monongalia unties.	X		
	dio shall be capable of interfacing for data ut/output.	<u> </u>		
2.1.14	2.1.14.1 If internal hardware is necessary in the radio, a price will be given for installation of that hardware at the time of purchase if option (Mobile Data Hardware Interface) is exercised.			
	2 Associated software or hardware, which shall include programming cable(s) external to the radio necessary for utilization of the radio in a data mode will be priced as a separate option (Mobile Data Software Interface) and shall be available either at time of purchase or at a later time as an independent purchase item.	<u> </u>		
	4 - VHF Digital Mobile with P-25 Digital CAI ing capable)			
	nobile under dash type radio (one piece) capable of trating in the 150-174 MHz band shall be provided.	X		
	tio shall be capable via programming of wide band narrow band operation.	<u> </u>		
2.2.2.1	Each channel shall be individually programmable with regard to wideband/narrowband operation, and digital/analog operation.	X		
	re shall be no limitations in the radio with regard to at channels may be programmed into the radio.	<u>X</u>	***************************************	
2.2.3.1	All currently licensable frequencies shall be considered acceptable to the unit.	X		
2.2.3.2	It shall be capable of storing a minimum of 512 channels.	<u> </u>		
2.2.4 It sh	nall have maximum dimensions of 7.5" W x 3.5" H x	X		

	2.2.5		nel indication shall be by way of an alphanumeric ay containing a minimum of 10 digits.	<u>X</u> .	Name of the Association of the A	
	2.	2.5.1	Radio shall have ID display capability.	<u> </u>	<u>.</u>	
	2.2.6		front panel is sloped, the amount of slope shall not eater than 20 degrees.	X		
	2.2.7	capal squel	o shall have programmable encode and decode collity for both CTCSS tones and digital coded ch with a minimum of one pair of tones, not	X		
		neces	ssarily the same, for each programmed channel.			
	2.2.8	lt sha	Il transmit with a minimum of 40 watts RF.	X		
	2.2.9		iver audio stage shall be capable of a minimum of ts of audio from the internal speaker.	See Cla	x arification :	in
	2.2.10		peaker shall be driven by this audio amplifier and be capable of dissipating the entire audio bility.	X		
	2.2	2.10.1	An external speaker will be provided with the unit.	X		
	2.2	2.10.2	When the external speaker is in use, any internal speaker shall be capable of being disabled.	X		
	2.2	2.10.3	If the internal speaker is mounted on the radio front panel, then the external speaker may be deleted, but must still be capable of using same.	X		
	2.2.11	A star	ndard microphone shall be provided.	<u> </u>		
	2.2.12	25 CA	shall include all software to operate at least to P- Al standards compatible with the WV DNR Law cement Section VHF radio system.	<u> </u>		
3.	GENERA	L SPE	CIFICATIONS AND WARRANTY			
	prev	iously l	dios being offered for purchase shall have been approved for use on the West Virginia ble Radio Project system.	X		

3.2	All	VHF radios being offered shall have been previously	X	
		proved for use on the West Virginia Department of Natural sources P-25 CAI repeater system.		
3.3	exa	ne case of a radio not previously approved, a working mple of the equipment to be provided will be available for	X	
	eva	luation prior to award.		
3	3.3.1	Operating and repair manuals will be provided on each component delivered for evaluation.	<u> X</u>	
3	3.3.2	11 2	<u>X</u>	
		not be returned, and shall not be construed as being part of the manuals required in other parts of this specification.		
3	3.3.3	The working sample will include explicit instructions and	X	
		diagrams to facilitate connection of all components as intended by the vendor.		
3	3.4	If the vendor desires, it is acceptable for a representative to assemble the package in working	<u>X</u>	
		order.		
3	.3.5	Any necessary programming to facilitate testing will be provided to the purchasers specifications by the vendor.	X	
3	.3.6	Any failure of the example to not contain all items specified and to not perform as required will be grounds	<u> </u>	
		for disqualification of the bid.		
3.4		n request and/or prior to bid award Vendors shall provide ufacturer's certification indicating they are an authorized	X	
		ller of the product(s) they are offering/bidding.		
3.5		quipment shall be warranted for a period of 1 year, ding parts and labor, and beginning when the equipment	<u> </u>	· - ··· -
		st placed in service.		
3.6		eatures that are placed in the radio by way of ramming or feature encoding will remain for the life of the	<u>X</u>	
	radic			
3	.6.1	Any lost feature information (ie. # of channels, type of	X	
		radio, etc) will be replaced (provided) at no charge for the life of the radio.		

3.7	The successful vendor shall provide pre-paid shipping labels	X	
	to cover all shipping charges for any item needing to be returned for repair work during the warranty period.		
3.8	All firmware upgrades will be free of charge for the life of the radio.	X	
3.9	All programming software updates shall be free of charge for the life of the radio.	X	
3.10	All items are to be available for purchase separately and each item is to be individually priced.	X	*****
3.11	Each item bid is to include make and model on Price Quotation sheet provided, and shall include literature sufficient for analysis of product being proposed.	X	<u></u>
3.12	Radios must be compatible with AES encryption.	<u> </u>	····
3	.12.1 This encryption method will be an option available both at the time of purchase and as a later upgrade.	<u>X</u>	
3	.12.2 Radio shall be capable of holding multiple encryption keys.	<u> </u>	
3	.12.3 Any necessary hardware to allow AES encryption (ie. hardware encryption board) shall be included in the radio at time of purchase.	X	
3	.12.4 The only option shown shall be the software required to enable the AES encryption regardless if encryption is purchased initially with the radio or at a later date.	X	
	An AES encryption key loader will also be listed as an option and shall include all applicable cables.	<u>X</u>	
3.	13.1 The optional keyloader shall come preloaded with AES encryption capability.	X	
	All encryption keyloading shall be capable via a Motorola KVL3000 Plus.	X	
3 15	A remote head option shall be provided.	X	

		3.15.1 All interfacing cables will be provided when this option is purchased, including a cable at least 20 feet in length between the remote head and the t/r unit, and a power cable at least 25 feet in length.	<u> </u>	
4.	CO	MPATIBILITY		
	4.1	Any modifications necessary to make this equipment operate properly with other provided equipment are to be the responsibility of the vendor.	<u>X</u>	
	4.2	All programming and jumper settings must be performed prior to delivery for operation with any other equipment in this specification.	X	eu = · · ·
	4.3	All equipment shall function without unintended interaction and interference to other components.	X	
	4.4	Any software or hardware deemed necessary for these	X	
		products to operate in the WVIRP system (UHF), or WVDNR system (VHF), yet excluded by the vendor will be provided after purchase at no charge to the purchaser.		
	4.5		X	
		software will be the responsibility of the vendor and shall be undertaken at no charge to the purchaser.		
.	SER	RVICE MANUALS		
	5.1	Schematics will be available and provided as specified.	<u>X</u> .	
	5.2	A minimum of 6 complete depot level service/repair manuals will be provided.	<u>X</u>	
	5.3	If greater than 30 radios are provided, service/repair manuals shall be provided in a ratio of 1 manual per 5 radios.	X	
	5.4	If greater than 50 radios are provided, service/repair manuals shall be provided in a ratio of 1 manual per 10 radios after fulfilling minimum requirements.	X	
	5.5	Any failure to comply will be grounds for disqualification of the bid, or cancellation of the contract.	X	

6. **EQUIPMENT OPTIONS**

6.1 The	e following items shall be available for items #1-4:		
6.1.1	Desktop Microphone to substitute for mobile microphone.	X	
6.1.2	Desktop Power Supply to convert mobile radio into table top base type radio.	X	· · · · · · · · · · · · · · · · · · ·
6.1.3	Upgrade to P-25 trunked operation for the VHF radio.	X	
6.1.4	AES Encryption.	<u> </u>	
6.1.5	AES Encryption Key Loader (Motorola KVL 3000+ or approved equal).	<u>X</u>	
6.1.6	Encryption key loader cable for 6.1.5.	X	
6.1.7	Option C after purchase.	<u> </u>	
6.1.8	Remote control head and associated hardware (split TR unit control head) (To be standard on items 1 & 2).	<u> </u>	
6.1.9	Mobile Data Hardware Interface.	<u> </u>	
6.1.10	Mobile Data Software Interface.	<u> </u>	
6.2 Prog	gramming Software for items 1 & 2:		
6.2.1	All radio programming must be able to be performed on a Microsoft Windows 2000/XP based computer.	X	<u></u>
6.2.2	The vendor shall make available for purchase all programming software and cabling necessary to program all radios.	X	
6.3 Prog	ramming Software for items 3 & 4:		
6.3.1	All radio programming must be able to be performed on a Microsoft Windows 2000/XP based computer.	X	
	The vendor shall make available for purchase all programming software and cabling necessary to program all radios.	<u> </u>	

7. EVALUATION FOR BID AWARD

7.1	Evaluation will include the review of all items listed in these specifications.	X	
7.2	The recommendation for bid award shall be made to the bid meeting the intent of the specifications set forth in this RFQ	<u> </u>	
	and containing the lowest Total Cost of all items listed.		
7.3	All pricing must be line itemed as indicated on the attached Price Quotation form.	X	
7.4	Vendors may provide pricing on a separate price sheet for additional items they offer relating to the items listed in this	<u> </u>	
	RFQ. This pricing will only be for informational purposes and will not be considered for bid award. Should any of the additional items listed be needed in the future, a change order to the contract will be made and at that time exact pricing will be obtained.		
7.5	Special / Promotional pricing offered by vendors for limited periods of time and any item pricing provided for items not requested in this RFQ shall not be considered for bid award and/or price comparison.	X	
7.6	Vendors must include make and model on the Price Quotation sheet for items 1, 2, 3 & 4.	<u> </u>	····
7	7.6.1 Upon request vendors shall provide a manufacturer product sheet (if not included with bid) which shows the product's specification information.	<u> </u>	
7.7	Vendors must include make, model and product part number for Options A, B, E, and F listed in this RFQ.	<u> </u>	

VHF and UHF DIGITAL MOBILE RADIO

PRICE QUOTATION

UHF Item #1 VHF Digital Mobile with remote mount he	\$ <u>2789.50</u>
Make: <u>KENWOOD</u> <i>VHF</i>	Model: тк-5810нвк2, ксн-14, ккк-5, кст-22м3, кст-23м4, кмс-27, кез-5, кwb-тк20, L-1056
Item #2 UHF Digital Mobile with remote mount he	\$ <u>2205.70</u> ead
Make: KENWOOD	Model: <u>TK-5710HBK, KCH-14, KRK-5, KCT-22M</u> 3, KCT-23M4, KMC-27, KES-5
Options for Items #1-2	
A) Desktop Microphone (substitute - KMC-27 and + KMC-9B	for mobile) \$ 0.00 (Specify Desktop Mic option with order)
B) Desktop Power Supply KPS-15	\$ <u>116.90</u>
C) Upgrade VHF radio to P-25 trur KWD-TR20, L-1056	nked operation \$ 583.80
D) AES Encryption KWD-AE21K	\$ 665.00
E) AES Encryption Key Loader (K' Equal) KPG-113AE	VL3000+ or \$
F) Encryption Key Loader cable op	tion E \$175.00
G) Upgrade to option C after purcha	\$ 583.80
H) Mobile Data Hardware Interface	\$ <u>N/A</u>
) Mobile Data Software Interface	\$ <u>N/A</u>
tem #3 ∀HF Digital Mobile	\$ 2247.00
Make: <u>KENWOOD</u> <i>VHF</i>	Model:TK-5810BK2, 10BMD, KWD-TR20, L-1056
tem #4 UHF Digital Mobile	\$ <u>1663.20</u>
Make: KENWOOD	Model: TK-5710BK, 10BMD
Options for Items #3-4	
A) Desktop Microphone (substitute - KMC-27 and + KMC-9B	for mobile) \$ 0.00 (Specify Desktop Mic option with order
B) Desktop Power Supply KPS-15	\$116.90
Upgrade VHF radio to P-25 truni KWD-TR20, L-1056	ked operation \$ 583.80

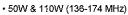
D) AES Encryption KWD-AE21K	\$665.00
E) AES Encryption Key Loader (KVL3000+ Or equal) KPG-113AE	\$ 350.00
F) Encryption Key Loader cable E KPG-94	\$ 175.00
G) Upgrade to option C after purchase KWD-TR20	\$ 583.80
H) Remote control radio head KRK-5, KCT-22M3	\$ 161.00
I) Mobile Data Hardware Interface	\$ <u>N/A</u>
J) Mobile Data Software Interface	\$N/A
Item #5, Programming Software and cables for Ite	ms #1 & 2
5.1) Programming software крс-ээрк	\$ 418.60
5.2) Programming cable KPG-43AM	\$ 76.30
5.3) Programming interface (if required)	\$ <u>N/A</u>
Item #6,Programming Software and cables for Item	ms #3 & 4
6.1) Programming software крс-950к	\$ 418.60
6.2) Programming cable KPG-43AM	\$ 76.30

KENWOOD

Land Mobile Radio Division Price Guide West Virginia RFQ#DPS0816 Unique Price Page

TK-5710 / 5810

VHF / UHF FM & P25 Digital Mobile Radios



- 45W & 100W (450-520, 400-470 mhZ)
- 50 Zones / 512 Channels
- Personality Lists
- Enhanced Kenwood Audio
- · Zone/CH Voice Announce
- Emergency Feature Set

- Tactical Group
- Easy Option Ports (26-Pin)
 MIL-STD C/D/E/F, IP-54
- MIL-STD 810 512.X Driven Rain
- FleetSync I/II
 DES Encryption Option
- · AES Encryption Option

MODEL	DESCRIPTION	RETAIL	WV PRICE
RF DE	CK ONLY: ORDER CONFIGURATION SET & ASSEMBLY LABOR CODE FOR A COMPELTE	MOBILE	
TK-5710BK	136-174MHz 10-50W 50 Zones/512 Channels (R.F. DECK ONLY)	\$1,753.00	\$1,227.10
TK-5710HBK	136-174MHz 50-110W 50 Zones/512 Channels (R.F. DECK ONLY)	\$2,240.00	\$1,568.00
TK-5810BK	450-520 MHz 5-45W 50 Zones/512 Channels (R.F. DECK ONLY)	\$1,753.00	\$1,227.10
TK-5810BK2	400-470 MHz 5-45W 50 Zones/512 Channels (R.F. DECK ONLY)	\$1,753.00	\$1,227.10
TK-5810HBK	450-520 MHz 50-100W 50 Zones/512 Channels (R.F. DECK ONLY)	\$2,240.00	\$1,568.00
TK-5810HBK2	400-470 MHz 50-100W 50 Zones/512 Channels (R.F. DECK ONLY)	\$2,240.00	\$1,568.00
DASH MOUNT (CONFIGURATION SETS		
10BHD	KCH-14M, KCT-23M2, KMB-9, KMC-27	\$651.00	\$455.70
10BMD	KCH-14M, KCT-23M, KMB-5, KMC-27	\$623.00	\$436.10
10FHD	KCH-15M, KCT-23M2, KMB-9, KMC-27, KES-5	\$710.00	\$497.00
10FMD	KCH-15M, KCT-23M, KMB-5, KMC-27, KES-5	\$682.00	\$477.40
SINGLE HEAD I	REMOTE MOUNT CONFIGURATON SETS		
10BHSH	KCH-14M, KRK-5, KCT-22M2, KCT-23M4, KMB-9, KMC-27	\$877.00	\$613.90
10BMSH	KCH-14M, KRK-5, KCT-22M2, KCT-23M3, KMB-5, KMC-27	\$846.00	\$592.20
10FHSH	KCH-15M, KRK-5, KCT-22M2, KCT-23M4, KMB-9, KMC-27, KES-5	\$936.00	\$655.20
10FMSH	KCH-15M, KRK-5, KCT-22M2, KCT-23M3, KMB-5, KMC-27, KES-5	\$905.00	\$633.50
DUAL HEAD RE	MOTE MOUNT CONFIGURATION SETS		
10BHDH	KCH-14M(x2), KRK-6DH, KCT-22M2(x2), KCT-23M4, KMB-9, KMC-27(x2)	\$1,636,00	\$1,145.20
10BMDH	KCH-14M(x2), KRK-6DH, KCT-22M2(x2), KCT-23M3, KMB-5, KMC-27(x2)	\$1,605.00	\$1,123.50
10FHDH	KCH-15M(x2), KRK-6DH, KCT-22M2(x2), KCT-23M4, KMB-9, KMC-27(x2), KES-5(x2)	\$1,754.00	\$1,227.80
10FMDH	KCH-15M(x2), KRK-6DH, KCT-22M2(x2), KCT-23M3, KMB-5, KMC-27(x2), KES-5(x2)	\$1,723.00	\$1,206.10
CABLES			
KCT-18	Ignition sense cable	\$13.00	\$9.10
KCT-22M	Control cable - 8 Feet	\$70.00	\$49.00
KCT-22M2	Control cable - 17 Feet (Standard accessory config. set cable)	\$80.00	\$56.00
KCT-22M3	Control cable - 25 Feet	\$90.00	\$63.00
KCT-23M	DC Cable (10-50W Dash mount)	\$30.00	\$21.00
KCT-23M2	DC Cable (50-110W Dash mount)	\$37.00	\$25.90
KCT-23M3	DC Cable (10-50W Remote mount)	\$33.00	\$23.10
KCT-23M4	DC Cable (50-110W Remote mount)	\$43.00	\$30.10

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INSTALLATIO	N ACCESSORIES		
KLF-2	Line Filter (suppresses alternator whine, 25dB, 25A max)	\$39.50	\$27.65
KMB-10	Key Lock Adapter for use with KMB-5	\$25.00	\$17.50
KMB-5	Medium Power Mounting Bracket (10-50W models)	\$14.00	\$9.80
KMB-9	High Power Mounting Bracket with built-in key lock (50-110W models)	\$35.00	\$24.50
MICROPHONE	S AND SPEAKERS		
KES-5	External Speaker (40W max input)	\$59.00	\$41.30
KMC-27	MIL-SPEC noise-canceling mobile hand microhone (included with configration sets)	\$99.00	\$69.30
KMC-28	MIL-SPEC DTMF noise-canceling mobile hand microphone	\$155.00	\$108.50
KMC-9B	Desk top microphone	\$92.00	\$64.40
EDONT DANE!	LS & REMOTE KITS ONLY (Order Configuration Sets for full install accessories)		
		\$480.00	\$336.00
KCH-14M	Basic Remote Control Head w/ 12 Alphanumeric Display (4W Front Speaker)	φ4ου.υυ	φοσο.υυ
KCH-15M	Full-Featured Remote Control Head w/ 14 Alphanumeric Display (external speaker required)	\$480.00	\$336.00
KRK-5	Single Control Head Remote Mount Kit	\$140.00	\$98.00
KRK-6DH	Dual Control Head Remote Mount Kit	\$240.00	\$168.00
SERVICE REL	ATED ACCESSORIES		
KPG-43AM	Programming interface Cable (DB9F PC connector)	\$109.00	\$76.30
NFG-43AW	USB Adapter for KPG-xxAM DB9F Programming Interface Cables (DB9M - to - USB Type A	Ψ103.00	ψ, 0.50
KCT-53UM	connector);	\$81.67	\$57.17
KPG-95DK	Windows® Programming Software for TK-5210/5310/5710/5810 (98, ME, 2000 & XP compatible)	\$598.00	\$418.60
	Includes "Dealer Level License ID" for FM & P25 Conventional modes only. See L-989 KPG-95DK Network Level ID (Trunking System Priviledges Restricted Purchase Requirements.		
	Note: A Dealer Level License ID can load network data files provided by a Network Level Licensed KPG-95DK, but cannot change trunked network parameters.		
L-989	KPG-95DK Network Level ID (encrypted data file)	\$132.00	\$92.40
	Enables trunking system programming privileges; See KPG-95DK Network Level ID (Trunking System Privileges) - Restricted Purchase Requirements		
	L-989- KPG-95DK Network Level ID (Trunking System Privileges) - Restricted Purchase Requirements. The KPG-95D only ships with a "Dealer Level License ID" which permits Conventional FM and P25 Conventional radio programming privileges only. For radios with the P25 trunking option installed, trunked/network programming privileges require a "Network Level		
	License ID" generally reserved ONLY for the system owner or the system owners authorized operators/service centers. Purchasing the KPG-95DK Network Level License ID will require 1) Written verifiable authorization from the systems owner/operator. 2) The 3-digit hexadecimal P25 System ID from the system owner/operator. 3) Purchase of a L-989: KPG-95D Network		
	Level ID option. This option will include an encrypted KPG-95D "System Key Data File" containing the 16-digit Network Level License ID & 3-digit hexadecimal System ID code.		
KPG-94	Key Loader Interface Cable for Motorola KVL-3000/3000 Plus	\$250.00	\$175.00

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Call Kenwood I	Parts at 800-367-7514 to order the following:		
K29-5276-03	Key Inserts for 90-series mobile (AN, D/A, DIM, HA, HC, IC, MON, OPT, OST, PA)	\$14.00	\$9.80
K29-5277-03	Key Inserts for 90-series mobile (RCL, RPT, SCN, SP, SPM, SQ, TA, <up arrow="">, <down arrow="">)</down></up>	\$14.00	\$9.80
K29-5305-03	Key Inserts for 90-series mobile (CH1, CH2, CH3, CH4, CH5, AUXA, AUXB, AUXC, EMG, ORG)	\$14.00	\$9.80
K29-5276-03	Key Inserts for 90-Series/TK-5710/5810 (AN, D/A, DIM, HA, HC, IC, MON, OPT, OST, PA)	\$14.00	\$9.80
K29-5277-03	Key Inserts for 90-Series/TK-5710/5810 (RCL, RPT, SCN, SP, SPM, SQ, TA, <up arrow="">, , 1x Clear key insert)</up>	\$14.00	\$9.80
K29-5305-03	Key Inserts for 90-Series/TK-5710/5810 (CH1, CH2, CH3, CH4, CH5, AUXA, AUXB, AUXC, EMG, ORG)	\$14.00	\$9.80
K29-9353-13	Key Inserts for TK-5710/5810 (2TN, AD, AR, CLK, FNC, PBK, SCP, SEC, SEL, SES)	\$14.00	\$9.80
K29-9354-03	Key Inserts for TK-5710/5810 (GPS, STS, TAC, TON, RES, IDV, KDL, TGR, 2x Clear key inserts)	\$14.00	\$9.80
K29-9356-03	Key Inserts for TK-5710/5810 (PAG, SIT, SRC, 7 X Clear key inserts)	\$14.00	\$9.80

FIRMWARE OF	PTIONS		
KWD-TR20	Trunking Option for TK-5210/5710/5310/5810	\$834.00	\$583.80
	Must order L-1056 Install KWD-TR20 VHF trunking Option KPG-95DK Requires Network Level License ID to program trunked network radio parameters (see KPG-95D for purchase restrictions & requirements) Compatible with TK-5210 Version 2 (SN 80600001 or later); TK-5310 (SN 809xxxxx or later); TK-5710 Version 2 (SN 806xxxx); TK-5810 (SN 809xxxxx or later)		
L-1056	Install KWD-TR20 Trunking Option in TK-5710/5810 (Must purchase KWD-TR20 seperately)	N/C	

OPTION MODU	LES		
KWD-DE21K	DES Plug-in Cryptographic Module for TK-5210/5710/5310/5810* (Intrinsically Safe Approved Accessory	\$550.00	\$385.00
L-1602	Install kWD-DE21K in TK-5710/5810 Mobile (Must purchase module separately)	\$75.00	\$52.50
KWD-AE21K	AES (non-Fips) & DES Plug-in Cryptographic Module for TK-5210/5710/5310/5810 (Intrinsically Safe Approved Accessory)	\$950.00	\$665.00
L-1346	Install KWD-AE21K in TK-5710/5810 Mobile (Must purchase module separately	\$75.00	\$52.50
KPG-113AE	AES & DES Software KeyLoader (includes USB Secure Key) KWD-DE21K/AE21K	\$500.00	\$350.00
KPG-114DE	(DES only) DES Software KeyLoader KWD-DE21K/AE21K	\$350.00	\$245.00

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OPTION MODUL	ES		
VGS-1	Voice Storage Unit	\$72.00	\$50.40
	VGS-1 provides Auto-Record, Voice Memo & Playback; The Voice Guide (a.k.a annunciaiton) function is built-in to the TK-5710/5810 and does not require the VGS-1		
CIM-1000K-26	GE-Star or MDC-1200 ANI Encode 26-Pin Plug-In Board Order labor code for radio install and programming.	\$125.00	\$87.50
CIM-CABLE	Serial Program Cable	\$59.00	\$41.30
	CIM-1000K-26 programs via Windows Hyper terminal (Windows Ver 3.1 or later) or any ProComm version; board must be installed in a powered radio for programming. The radio programmer does NOT program the CIM-1000K-26. CIMM-CABLE is a DB-9 PC connector with 3 short lead with clips and may require a PC serial extension cable		

INSTALLATI	ION / TUNING CHARGES		
L-1028	Package Dash/Single Head Remote for 5710/5810 mobiles	\$17.00	\$11.90
L-1029	Package Dual Head Remote for 5710/5810 mobiles	\$34.00	\$23.80
L-1006	Modify TK-5710/5810 for Horn Alert relay output (1 amp max.; relay factory installed already)	\$25.00	\$17.50
L-862	Install Front Panel PF Key Label Inserts in TK-5710/5810/90-series Mobile (key names and positions must be specified)	\$15.00	\$10.50
L-864	KCT-22A Extended Control Head Cable (Specify length in 1 ft increments up to 50 ft. max.)	\$190.00	\$133.00
L-865	KCT-22A Extended Control Head Cable (Specifiy length in 1 ft. increments up to 100 ft. max.)	\$245.00	\$171.50
	Extended control head cables: Extended cables result in a loss of control head audio power. On KCH-14 use 13W audio output modifications per service manual Use a standard KCT-22 25 ft. or less cable for firmware installation. Normal KPG-95D radio programming is possible at extended lengths.		
L-866	Modify KCT-23M2/M4 110W High Power DC Cables from 4 to 2 Conductors (1x23 ft. positive, 1x23 ft. negative; AWG #10)	\$75.00	\$52.50
	Two Conductor Modification: KCT-23M2 75/110W Dash Mount DC Cable (4 Conductor: 2x10 ft. positive, 2x10 ft. negative) KCT-23M4 75/110W Remote Mount DC Cable (4 Conductor: 2x23 ft. positive, 2x23 ft.		
L-962	negative) Install VGS-1 Voice Guide & Storage Unit	\$25.00	\$17.50
L-989	KPG-95DK Network Level ID Privilege (encrypted data file)	\$132.00	\$92.40
L-1024	Install & Program CIM-1000K-26 for MDC-1200 in TK-5710/5810	\$75.00	\$52.50
L-1025	Install & Program CIM-1000K-26 for GE-Star in TK-5710/5810	\$75.00	\$52.50

STATE OF WEST VIRGINIA Purchasing Division

PURCHASING AFFIDAVIT

West Virginia Code §5A-3-10a states: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owed is an amount greater than one thousand dollars in the aggregate

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceed five percent of the total contract amount.

EXCEPTION: The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

LICENSING: Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agencies or political subdivision. Furthermore, the vendor must provide all necessary releases to obtain information to enable the Director or spending unit to verify that the vendor is licensed and in good standing with the above entities.

CONFIDENTIALITY: The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures and rules. Vendors should visit **www.state.wv.us/admin/purchase/privacy** for the Notice of Agency Confidentiality Policies.

Under penalty of law for false swearing (West Virginia Code, §61-5-3), it is hereby certified that the vendor acknowledges the information in this said affidavit and are in compliance with the requirements as stated.

Vendor's Name: Kenwood USA Con	rporation			
Authorized Signature: Barry Morris	Barry Monis	Date:	01/03/08	
Purchasing Affidavit (Revised 06/15/07)	0			

KENWOOD

Listen to the Future



TK-5710(H)/5810(H)

VHF/UHF FM & Project 25 Digital Mobile Radio



FleetSync[®]

GENERAL FEATURES

- 50W & 110W (136-174 MHz)
- 45W & 100 W (450-520, 400-470 MHz)
- 50 Zones / 512 Channels
- Personality Lists
- · Enhanced Kenwood Audio
- Zone/CH Voice Announce
- · Emergency Features
- · Tactical Group
- Intercom[†]
- Public Address
 - Time Out Timer
- Busy Channel Lockout
- Ignition Sense²
- · Timed Power Off
- DB-25 & 9-Pin Accessory Connectors³
- · Transceiver Password
- Date & 12/24 Hour Time Clock
- Windows® Programming & Tuning⁴
- Windows® Firmware Uploading¹
- Field-Programming & Tuning
- Cloning
- Easy Option Ports (26-pin)^s
- DB-25 & 9-Pin Accessory Connectors
- MIL-STD 810 C/D/E/F, IP-54
- MIL-STD Noise-Cancel Mic (included)
- MIL-STD 12-Key DTMF Mic Option

MOUNTING CONFIGURATIONS

- Dash Mount
- · Single Control Head Remote Mount
- Dual Control Head Remote Mount

FRONT PANELS/CONTROL HEADS

- · Backlit Dot Matrix LCD
- 3-Digit Sub-Display
- Function / Status LCD Icons
- Transmit LED
- Busy/Call Alert/Warn LED
- LCD Brightness Control
- Power On/Off Switch
- Rotary Volume Knob
- Rotary Selector Knob
- Backlit Kevs
- · PF Key Label Inserts
- Microphone Jack
- MIL-STD 810 512.X Driven Rain

KCH-14 Front Panel

- 12-Character Alphanumeric Aliases
- 5 PF Keys
- UP/DOWN Keys
- · Built-in Front Speaker

KCH-15 Front Panel

- 14-Character Alphanumeric Aliases
- 11 PF Keys
- UP/DOWN Keys
- · External Speaker Required

SCAN TYPES (FM & P25)

- Single Zone/Multi-Zone Scan¹¹
- Scan Lists
- Conventional Scan
- Limited Talk Group Scan⁶
- Priority Monitor Scan⁶
- Dual Priority Scan

FM

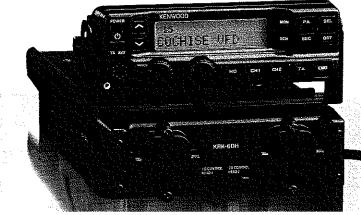
- QT / DQT
- Operator Selectable Tone
- Two-Tone Decode / Encode⁷
- DTMF Encode / Decode / Stun³
- Special Alert Tone Patterns⁹
- Horn Alert Output
- Encryption / ANI Board Control
- · Companded Audio

FleetSync® (FM)

- FleetSync® or FleetSync® II¹⁰
- PTT ID Digital ANI
- Caller ID Display
- Status Messaging
- · Emergency & Stun Statuses
- Selective & Group Call
- Text Messaging

P25 DIGITAL

- P25 Digital Conventional
- · P25 Digital Trunking Option
- IMBE™ VOCODER
- Talk Group ID Lists
- Individual ID Lists
- Caller ID Display
- RSSI Indicator
- Remote Monitor
 Remote Check
- Radio Inhibit
- Encryption Key Delete
- Encryption Key Zeroize (SCM required)¹¹
- Encryption Key Retention (SCM required)¹¹
- DES 16-Key SCM Option¹¹
- AES FIPS 140-2 & DES 16-Key SCM Option¹¹
- KPG-94 KVL Key Loader Interface Cable¹²





Options

■ KMC-9B Desktop Microphone



■ KMC-27 Microphone (MIL-SPEC noise-canceling)



■ KMC-28 Keypad Microphone (MIL-SPEC noise-canceling)



■ KCT-18 Ignition Sense Cable

■ KCT-22



■ KCT-23 DC Power Cable



■ KES-5 External Speaker (20W)



■ KCH-14 Basic Remote Control Head



■ KCH-15 Full-Featured Remote Control Head



KRK-5

Single Control Head Remote Kit

KRK-6DH

Dual Control Head Remote Kit



■ KPG-94 Keyloader Interface Cable



夏 VGS-1 Voice Guide & Storage Unit



All accessories and options may not be available in all markets. Contact an authorized Kenwood dealer for details and complete

Specifications

Model	TK-5710	TK-5710H	TK-5810	TK-5810H	
GENERAL					
Freguency Range					
Type 1	136-174	I MHz	450-520 MHz		
Type 2	Mak-9	·	400-470	0 MHz	
Number of Channels	512				
Zones			0		
Max. Channels per Zone			50		
Channel Spacing Analog	12.5 / 15 / 20 / 2	IS / 20 kH=	12.5/2	E bu-	
Digital	12.37 137 207 2	12.5		.5 KHZ	
Operating Voltage	13.6V DC ± 15%	13.4V DC ± 15%	13.6V DC ± 15%	13.4V DC ± 15%	
Current Drain					
Standby			an 0.6A		
Receive	L 434		an 2.3A	1 16 20 4	
Transmit	Less than 12A	Less than 25A	Less than 14A	Less than 28A	
Duty Cycle			nit: 20%		
Operating Temperature Range Frequency Stability		-22 °F to +140 °F (-3			
Antenna Impedance		± 2.0 ppm (-22 1	F TO +140 F) Ο Ω		
Dimensions (W x H x D)	·····		7.77		
RF Deck only	7.01 2.26 7.69 :	7.01 2.26 12.07 in	7017.767.60	7.01 - 2.20 - 12.87 -	
RF DECK OTHY	7.01 x 2.36 x 7.68 in. (178 x 60 x 195 mm)	7.01 x 2.36 x 12.87 in. (178 x 60 x 327 mm)	7.01 x 2.36 x 7.68 in. (178 x 60 x 195 mm)	7.01 x 2.36 x 12.87 in. (178 x 60 x 327 mm)	
with KCH-14 or15	7.05 x 2.36 x 9.09 in.	7.05 x 2.36 x 14.29 in.	7.05 x 2.36 x 9.09 in.	7.05 x 2.36 x 14.29 in.	
	(179 x 60 x 231 mm)	(179 x 60 x 363 mm)	(179 x 60 x 231 mm)	(179 x 60 x 363 mm)	
Weight RF Deck only	5.3 lbs. (2.4 kg)	8.6 lbs. (3.9 kg)	5.5 lbs. (2.5 kg)	9.2 lbs. (4.2 kg)	
with KCH-14	5.9 lbs. (2.7 kg)	9.2 lbs. (4.2 kg)	6.2 lbs. (2.8 kg)	9.9 lbs. (4.5 kg)	
with KCH-15	5.9 lbs. (2.7 kg)	9.2 lbs. (4.2 kg)	6.2 lbs. (2.8 kg)	9.9 lbs. (4.5 kg)	
FCC ID	•				
Type 1	K4435753110	K4435753210	K4439923110	K4439923210	
Type 2			K4439923120 K4	439923220	
IC Certification					
Type 1	282F-35753110				
Type 2			282F-39923120		
RECEIVER (Measuremen	ts made per EIA/TIA-2	04-D)	<u> </u>		
Sensitivity Digital (5% BER)			3F - 34		
Digital (5% BER)			25 μV		
Analog 12 dB SINAD		0.40 μV 0.25 μV			
Selectivity		www	23 HA		
Digital		c	3 dB		
Analog @ 25/30 kHz	-83 dB /			33 dB / -	
Analog @12.5/15 kHz	-63 dB /		_	33 dB / -	
Intermodulation Distortion (Digital			- / 0 dB	O 0B / -	
Spurious Response (Digital & Anal			OdB		
spurious response (Digital & Anal Audio Distortion	<u> </u>	-9	O GD		
Addio Distortion Digital	Less than 1.0%				
Analog	Less than 1.0%				
Audio Output					
Internal (KCH-14) @3%			V at 8 Ω		
@ 5%			W at 8 Ω		
External @3%			at 4 Ω		
@5%			' at 4 Ω		
FRANSMITTER (Measure		TA-152-C)	64 12 14	the self-real section	
RF Output Power	50 W to 5 W	110 W to 50 W	45 W to 5 W	100 W to 50 W 12	

TRANSMITTER (Measure	6.2 %	the professional and the second	- 1		
RF Output Power	50 W to 5 W	110 W to 50 W	45 W to 5 W	100 W to 50 W ¹²	
Spurious & Harmonics		80	dB		
FM Hum & Noise					
Analog @ 25 kHz	50 (53) '' dB	50	· dB	
Analog @12.5 kHz	45 (47) '' dB	45	dB	
Microphone Impedance		600	Ω		
Audio Distortion		Less th	an 2%		
Modulation		16K0F3E, 11K0F3E, 8	8K10F1E, 8K10F1D		
		20K0F7D, 11K2F7D,	14K4F1D, 7K20F1D		

Analog measurements made per TIA/EIA 603 Digital measurements made per TIA/EIA 102CAAA

(*1) 148MHz ~ 168MHz

Type 1: 100W to 50W for 450-500MHz. More than 60W to 50W for 500-520MHz. Type 2: 100W to 50W for 400-470MHz.

FleetSync* is a registered trademark of Kenwood Corporation.

Windows® is a registered trademark of Microsoft Corporation in the United States and other countries. and orner countries.

IMBE™ is a trademark of Digital Voice Systems Inc.

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Kenwood follows a policy of continuous advancement in development.

For this reason specifications may be changed without notice.

Applicable MIL-STD & IP

Standard	MIL 810C Methods/Procedures	MIL 810D Methods/Procedures	MIL 810E Methods/Procedures	MIL 810F Methods/Procedures	footnotes fro Intercom: KCT-18 ign
Low Pressure	500.1/Procedure I	500.2/Procedure I, II	500.3/Procedure I, II	500.4/Procedure I, II	3 D8-25 AC
High Temperature	501.1/Procedure I, II	501.2/Procedure I, II Cat.A1	501.3/Procedure I, II Cat.A1	501.4/Procedure I, II	Modems,
Low Temperature	502.1/Procedure	502.2/Procedure I, II Cat.C1	502.3/Procedure I, II Cat.C1	502.4/Procedure I, II	AUX Outp
Temperature Shock	503.1/Procedure I	503.2/Procedure Cat.A1.C1	503.3/Procedure Cat.A1,C1	503.4/Procedure I, II	* KPG-95D compatible
Solar Radiation	505.1/Procedure I	505.2/Procedure I	505.3/Procedure I	505.4/Procedure	* Easy Opti
Rain	506.1/Procedure I, II	506.2/Procedure I,II	506.3/Procedure I, II	506.4/Procedure I, III	ports can
Humidity	507.1/Procedure II	507.2/Procedure II	507.3/Procedure II	507.4	° P25 Trunk 7 Two-Tone:
Salt Fog	509.1/Procedure I	509.2/Procedure I	509.3/Procedure I	509.4	Operator .
Dust	510.1/Procedure	510.2/Procedure I, II	510.3/Procedure I	510.4/Procedure I, III	* DTMF Enc
Vibration	514.2/Procedure VIII, X	514.3/Procedure Cat.8, Cat.3	514.4/Procedure Cat.8,ll Cat.3	514.5/Procedure Cat 20, Cat 5	Auto-Dial (a.k.a. dea
Shock	516.2/Procedure I, II, III, V	516.3/Procedure I, IV, V, VI	516.4/Procedure I, IV, V, VI	516.5/Procedure I, IV, V, VI	* Operates i
International Prot	ection Standard			1 1 11	"FleetSync & "Feature/On

Dust & Water Protection

om Front:
Dual Head capable remote mounts only,
mition sense cable option required.
TC: I/O's for dispatch consoles, desktop remotes, vehicle
PA units, motorcycle PTT/headset kits, PC Laptop i/Data
GPS/AVI. Modems; DB-25 (9 Prog. AUX I/O's & 2 Prog.
pust); 1 Prog Input (on Control Head).
Software required (Windows 98/ NT/ 2000/ Me/XP
labels).

er. on Ports: VGS-1, ANI & Scrambler board ports; only 2

be used simultaneously.

pe used simultaneously, inig option required.

Decode (4 sets x 4 pairs each); Encode: 32 pairs;
Selectable fone (40 OT.DOT code pairs),
ode: PTT ID, Ernergency ANI, Manual Encode (KMC-28),
(9 numbers), DTMF Decode: Primary/secondary ID, Stund
beat disable),
for 2-Tone, DTMF FleetSync selective calling.

& ElearSync II was not compatible.

Operating that Interest of the Interest County of the Interest Count

the TK-5710/5810.

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