

*709042444

CROSS LANES WV

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

25313

ELECTRONIC COMMUNICATIONS WV

408 OLD GOFF MOUNTAIN ROAD

304-776-4091

Request for Quotation

RFQ NUMBER 7012C007 PAGE 1

ADDRESS CORRESPONDENCE TO ATTENTION OF:

PAUL REYNOLDS 304-558-0468

DIVISION OF HIGHWAYS EQUIPMENT DIVISION ROUTE 33

BRUSHY FORK ROAD BUCKHANNON, WV

						26201	304	1-472-1750
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WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'



VENDOR

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WEST VIRGINIA DIVISION OF HIGHWAYS EQUIPMENT DIVISION

PROCUREMENT SPECIFICATIONS FOR MOBILE RADIOS

NO. S. E. 650-002

LOW BAND DASH MOUNT MOBILE RADIOS

1.0 Purpose

It is the purpose of these specifications to describe Low Band dash mount mobile radio's (hereinafter referred to as "units) to be purchased for use by the West Virginia Division of Highways; to define the provisions to be contained in proposals for the sale of said units to the division; establish a schedule for delivery and the criteria for gauging the compliance of the bidder, his proposal and his unit to these specifications.

2.0 Bidders Compliance Report

Each proposal submitted should be accompanied by a Bidders Compliance report completed in detail and signed by bidder. Failure to submit this report, completed entirely, may subject the bidder to automatic disqualification.

3.0 Representative unit for test

- 3.1 The successful bidder shall furnish the West Virginia Department of Transportation, Division of Highways one (1) representative unit, to be tested and evaluated by the Department. Unit must be set up on 47.28 MHZ. as the test frequency with a subtone of 71.9 Hz. The radio must be pre-tested and operational on delivery. Time period for testing and evaluation to be seven (7) calendar days following delivery of the unit. The Department shall incur no obligation for deterioration of surface, finishes, seals and mechanical or electrical parts on the unit resulting from operation and testing within the limits of these specifications; nor shall it incur obligation for damage to the unit resulting from failure to meet specifications when due care and attention are given by the Department and testing is done within the limits of the these specifications.
- 3.2 After testing of the representative unit, the Department may place an order for the units bid or may decline to order any units if determination has been made by the Department that the representative unit does not meet the functional, operational or any other needs of the Department.

4.0 Specifications and guidelines - General -The bidder shall identify the units by manufacturer model, series, and year of manufacture in his proposal so as to enable identification by the West Virginia Department of Highways in the manufacture's sales literature on the proposed units. The bidder should submit complete descriptive literature fully describing the proposed unit to establish that he is bidding on the manufacture's most current model.

All specifications including the word "shall" are considered mandatory and any bid failing to include the mandatory item will be cause for rejection.

5.0 Unspecified Accessories and Features

All parts and service manuals, equipment, accessories, material, design and performance characteristics not specified herein, but which are necessary to provide a complete unit, shall be furnished with each unit and shall conform in strength, quality of material, and quality of workmanship to those which are advertised and provided to the market in general by the unit industry.

All parts and accessories advertised and regularly supplied as standard are to be included, except those which would represent duplication of these specified, and except those which, by specification are not to be furnished. All standard safety features required by federal and state law shall be included.

6.0 Manufacturer's Warranty and Service Policy

The manufacture's standard warranty or service policy is to apply to the unit. Such warranty or service policy is to be recognized at any authorized unit dealer representing manufacturer of proposed unit throughout the State of West Virginia. It shall be the responsibility of the bidder to provide labor to repair or replace any defective replacement parts, components and materials found to be defective and to have available those replacement parts, components, and/or materials found to be defective during the terms of the warranty period. The Units shall be accompanied upon delivery by the manufacture's properly execute warranty or service policy.

- 7.0 Delivery
- 7.1 Delivery point of the completely assembled units shall be the West Virginia Division of Highways, Equipment Division, at Buckhannon, WV located on U.S. Route # 33 at Brushy Fork Road.
- 7.2 Delivery 90 days after order.

- 8.0 General Specifications
 All units shall conform to the following minimum specifications.
- 8.1 Number of Channels: 32 Minimum
- 8.2 Frequency Spread: 36.0 to 50.0 MHz
- 8.3 Main body must not weigh more than 3.75 pounds.
- 8.4 Controls: Shall have front microphone/program jack.

Shall have a minimum of 8 character alphanumeric display. Must have front mounted internal speaker. Must have controls for scan, monitor, channel delete/add and channel select. Shall have capability for user addition of a talk-around button with programmable offset. Unit shall provide a means of memory backup to allow operation on the ignition switch without loss of selected channel.

8.5 Programming:

Shall be programmable by PC, under Windows NT, 2000, XP, software must be provided. Twelve (12) interface cables for PC shall be supplied. Successful bidder shall deliver units programmed to channels, frequencies and other programmable options as designated upon order or award of purchase order.

8.6 Receiver Specifications:

Sensitivity @ 12db EIA SINAD: .25uv or better

Selectivity: -75db or better Intermodulation: -70db or better Spurious Rejection: -70db or better Frequency Spread: 12.0 MHz or better Audio Output: 10 watts at 5% distortion

8.7 Transmitter Specification:

Output power: 65 watts or greater Frequency Stability: . +/- 0.0005% Spurious & Harmonics -62db or better

FM Noise: -45db or better Audio Distortion: less than 3%

Frequency Separation: 12.0MHZ or better

DIVISION OF HIGHWAYS WEST VIRGINIA DEPARTMENT OF TRANSPORTATION EQUIPMENT DIVISION

BIDDERS COMPLIANCE REPORT

PROCUREMENT SPECIFICATIONS FOR MOBILE RADIOS

NO. S. E. 650-002

LOW BAND DASH MOUNT MOBILE RADIOS

NOTE TO BIDDER: Procurement Specifications No. S.E.650-002, Paragraph 2.0 recommends the completion and submittal of this report with your proposal. Purpose of this report is to enable the West Virginia Division of Highways Equipment Division Communications Review to make full and fair evaluation of the bid proposal. FAILURE TO SUBMIT THIS REPORT, COMPLETE IN ITS ENTIRETY, MAY SUBJECT THE BIDDER TO DISQUALIFICATION.

SPECIFICATIONS - GENERAL

Reference Requisition No. On request for proposal:

70120007
Bidder's Name: Electronic Communications of WV INC
Address: 408 Old Goff Mfn ROAD CROSS LANCES WV 25-313
Telephone Number: 304 774 - 409/
Years Company has been registered to do business with the State of West Virginia: 40 YEARS
Manufacturer, model, series, and date of manufacture of proposed unit: KENWOOD TK-6110 K2
Is descriptive literature, fully describing proposed unit, attached to your proposal? <u>Ves</u>
If not, why?
Bid price per unit: \$ \(\frac{470.48}{8} \t \t \ \] = \(\frac{470.48}{8} \t \ \] TOTAL BID

6.0	WARRANTY
	Define the terms of manufacturer's standard warranty. If not offered, so state. Attaccopy if available.
	See Attached warranty Sheet
6.1	Define warranty service to be performed at manufacturer's representative facility. List names and locations of manufacturer's representative.
	All Wannarty Services CAN be provided by Flec. Comm. of wv in
	Service LUCATION FROM COMPOUNT REPLACEMENT TO CASE PARTS, AS
	As out bound Depot Services
6.2	List locations for parts inventories that are within the State of West Virginia. Also lis availability of levels if known. Electronic Communications of LaV Inc
	408 Old Goff Mtn ROAD
	Choss LANES WV

8 9 9

8.0	SPECIFICATIONS OF THE QUOTED UNIT: the bidder she schedule in order for the Division to compare the actual bid. Should the bidder take exception to any of the specifications only on the basis that such feature is not offered by the manulative the sole discretion as to whether the bidder's substitutive the specifications	unit to s, then facture	the specific such excepter. The Div	cations. otion may be ision will
	Manufacturer: KENWOOD			
	Manufacturer: KENWOOD Model: TK-4110			
	Year model: 2011 +			
8.1	Does unit have a minimum of 32 channels?	<u> </u>	_YES	_NO
8.2	Does unit have 42.0 to 50.0 Mhz frequency spread and inclu-	V.	YES	NO
8.3	Does unit have Front Microphone/Program Jack?	V	YES	_NO
8.3.1	Minimum of 8 character alpha numeric display?	V	_YES	_NO
8.3.2	Scan, monitor, channel add/delete and select?	V	_YES	_NO
8.3.3	Does unit have capability for user addition of talk around bu transmit offset?		ith program	
8.3.4	Does unit have long term memory backup to allow operation without loss of selected channel?	on th		witch
8.3.5 ignitio	Does unit include accessories or kit to enable it to be turned n switch?YES			the vehicle
8.4	Is the unit programmable by PC for Windows NT, 2000, and 12 copies of programmable software provided?	l XP aı	nd is the nec	cessary

8.5.1	Is Sensitivity @ 12db EIA SINAD: .3uv or better?	V_YESNO
8.5.2	Is Selectivity: -75db or better?	YESNO
8.5.3	Is Intermodulation: -70db or better?	NO
8.5.4	Is Spurious Rejection: -70db or better?	YESNO
8.5.6	Is Audio Output: 10 watts external at 5% distortion?	NO
8.6.1	Is output power: 65 watts or greater?	YESNO
8.6.2	Is Frequency Stability: +/- 0.0005%?	NO
8.6.3	Is Spurious & Harmonics -62db or better?	NO
8.6.4	Is FM Noise: -45db or better?	YESNO
865	Is audio Distortion : less than 3% ?	YES NO

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WARRANTY ON LAND MOBILE RADIOS AND ACCESSORIES

Kenwood U.S.A. Corporation ("KENWOOD") warrants its Land Mobile Radios and accessories purchased from an authorized KENWOOD dealer in the United States (the "Products") as follows:

WHAT IS COVERED AND WHAT IS EXCLUDED

Except as specified below, Products will be free from defects in material and workmanship under normal use and service for the time specified below. The following are not covered by this Warranty:

- 1. Damage, defects, deterioration or failure resulting from:
 - A. Accident, misuse, negligence, abuse, neglect, improper handling, product modification or failure to follow instructions contained in your Owners Manual.
 - B. Improper or unauthorized testing, operation, alteration, disassembly, modification, adjustment or repairs.
 - C. Exposure to fire, water, excessive moisture, dampness, extreme changes in climate or temperature or other acts which are not the fault of KENWOOD and which the Product is not specified to tolerate.
 - D. Repair or attempted repair by anyone not authorized by KENWOOD.
 - E. Installation of parts or accessories that do not conform to the quality or specifications of the original parts or accessories.
 - F. Installation of the Product in, or removal of the Product from, the vehicle or other site of its use.
 - G. Use of a Product in conjunction with hardware or software electrically or mechanically incompatible with such Product.
 - H. Use of a Product in conjunction with accessories or ancillary equipment not supplied by KENWOOD.
 - Normal and customary wear and tear.
- Damage, defects, deterioration, failure or loss occurring during shipment (claims must be presented to the carrier).
- 3. Any unit which is not new when sold to the first end user or upon which the serial number has been defaced, modified or removed.
- 4. Damage, defects, deterioration or failure of antennas unless caused directly by defects in material and workmanship.
- 5. Damage, defects, deterioration or failure of rechargeable batteries if any of the seals on the battery enclosure of cells are broken or show evidence of tampering or if caused by use of the batteries in equipment or service other than in conjunction with the Product for which it is specified.

USE OF THE PRODUCT WITH ACCESSORIES OR OTHER EQUIPMENT NOT SUPPLIED BY KENWOOD OR OTHERWISE NOT EXPRESSLY AUTHORIZED BY KENWOOD MAY BE DANGEROUS AND WILL VOID THE PRODUCT WARRANTY. ALL SUCH ACCESSORIES AND ANCILLARY EQUIPMENT ARE EXPRESSLY EXCLUDED FROM THIS WARRANTY. BECAUSE EACH SYSTEM THAT MAY INCORPORATE A PRODUCT IS UNIQUE, KENWOOD DISCLAIMS ANY LIABILITY OR WARRANTY COVERAGE FOR OR WITH RESPECT TO RANGE, COVERAGE OR OPERATION OF THE SYSTEM AS A WHOLE.

HOW LONG IS THE WARRANTY

This Warranty will remain in effect for two (2) years for portables, mobiles and repeaters. One (1) year for accessories including rechargeable batteries. TK-X140, TK-5X20 & NX-210 models have a three (3) year warranty. The TK-5X10, TK-X180 and NX-X00 models purchased prior to 3/1/09 have a two (2) year warranty. The TK-5X10, TK-X180 and NX-X00 models purchased on 3/1/09 or after have a three (3) year warranty. Warranty is measured from the date of purchase by the first end user.

WHO IS PROTECTED

This Warranty is enforceable only by the first end user. Transfer or resale of a Product will automatically terminate warranty coverage with respect to that Product. This Warranty is not transferable to any third party, including but not limited to any subsequent purchaser or owner of the Product.

WHAT WE WILL DO AND HOW TO OBTAIN WARRANTY SERVICE

KENWOOD will, at its sole absolute discretion, either repair or replace a Product with a new or a rebuilt unit (which unit may include new and/or reconditioned parts) if found by KENWOOD to be defective in material and workmanship. If KENWOOD determines that it is unable to repair or replace such Product, KENWOOD shall refund the purchase price for such Product. The foregoing is subject to your returning the defective Product to an authorized KENWOOD Land Mobile dealer or authorized service center within the Warranty period, accompanied by a sales receipt or other evidence of the date of purchase. If it is necessary to ship the Product for Warranty service, you are responsible for the initial shipping charges, but KENWOOD will pay the return shipping charges if the Product is repaired or replaced under Warranty. You are responsible for any charges incurred in removing the Product from the vehicle or other site of use and for reinstallation of the repaired or replaced Product. All replaced Products or parts and Products or parts for which a refund has been given will become the property of KENWOOD.

EXCLUSION OF OTHER WARRANTIES AND DAMAGES

Unless considered unlawful or unenforceable under applicable law:

- A. THIS IS THE COMPLETE WARRANTY GIVEN BY KENWOOD AND IT IS GIVEN IN LIEU OF ALL OTHER EXPRESS WARRANTIES. KENWOOD ASSUMES NO OBLIGATIONS OR LIABILITY FOR ADDITIONS OR MODIFICATIONS TO THIS WARRANTY. ALL IMPLIED WARRANTIES WITH RESPECT TO PRODUCTS, INCLUDING WITHOUT LIMITATION IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE EXCLUDED.
- B. KENWOOD'S LIABILITY UNDER THIS WARRANTY IS LIMITED TO THE REPAIR OR REPLACEMENT, AT KENWOOD'S OPTION, OF ANY DEFECTIVE PRODUCT, AND SHALL NOT INCLUDE DAMAGES OF ANY KIND, WHETHER DIRECT, INDIRECT, SPECIAL, GENERAL, INCIDENTAL, CONSEQUENTIAL OR OTHERWISE, INCLUDING BUT NOT LIMITED TO LOSS OF USE, LOSS OF TIME, INCONVENIENCE, COMMERCIAL LOSS, OR LOSS OF PROFITS OR SAVINGS OR ANTICIPATED PROFITS OR SAVINGS.

This Warranty is enforceable only in the United States of America and governed by the laws of the State of California.

If a problem develops during or after the Warranty Period, or if you have any questions regarding the operation of the product, you should contact your KENWOOD Authorized Dealer or Authorized Service Center. If the problem or your question is not handled to your satisfaction, please contact our Customer Relations Department at (310) 761-8275

KENWOOD USA CORPORATION PO BOX 22745 2201 East Dominguez Street Long Beach, CA 90801-5745 U.S.A.



KENWOOD U.S.A. CORPORATION LIMITED WARRANTY ON SYSTEMS, SYSTEM COMPONENTS AND SERVICES

Kenwood U.S.A. Corporation ("KENWOOD") warrants its Systems and System Components, including but not limited to, repeaters, controllers, power amplifiers, power supplies, power distribution panels, combiners, receiver multi-couplers, antenna systems, reinforced antenna systems, control stations, consoles as follows:

HOW LONG IS THE WARRANTY

The Limited Warranty will remain in effect based on the following table, measured from the date of system acceptance on KENWOOD system contracts or date of invoice for standard systems and components.

 PRODUCT CATEGORY
 WARRANTY PERIOD

 Kenwood Labeled System Components and Kenwood Integrated Complete Systems.
 2 Years

 Non-Kenwood System Components.
 2 Years

 Portable Handheld Radios, Mobile Radios and Land Mobile Accessories.
 See KENWOOD Land Mobile Radio Warranty

 Systems Services (Including Engineering, Installation, & Programming).
 90 Days

WHO IS PROTECTED

This Warranty is enforceable only by the first end user ("Buyer").

PRODUCT WARRANTY

Except as specified below, this Warranty covers all defects in materials and workmanship in KENWOOD Systems and System Components. The following are not covered by the Warranty:

- 1. Damage, deterioration or failure resulting from:
 - A. Accident, misuse, abuse, neglect, product modification or failure to follow instructions contained in the Owner's and Operations Manuals.
 - B. Repair or attempted repair by anyone not authorized by KENWOOD.
 - C. Installation of parts or accessories that do not conform to the quality or specifications of the original parts or accessories.
 - D. Improper installation of the product in, or improper removal of the product from any location.
 - E. Environmental conditions which adversely affect systems/product performance, including but not limited to temperature, water, excessive moisture, power surges, lightning, electro-static discharge, acts of God or other casualties which are not the fault of KENWOOD and which the Product is not specified to tolerate.
 - F. Battery leakage, water, or other elements.
 - G. Failure due to the use of a Product in conjunction with hardware or software electrically or mechanically incompatible with such Product.
 - H. Failure due to the use of a Product in conjunction with accessories or ancillary equipment not supplied by KENWOOD.
 - I. Normal and customary wear and tear.
- 2. Damage or loss occurring during shipment (claims must be presented to the carrier).
- 3. Any product, which is not new when sold to the first end user unless otherwise specified at time of sale.
- 4. Any product upon which the serial number has been defaced, modified or removed.

USE OF PRODUCT WITH NON-KENWOOD SUPPLIED EQUIPMENT AND ACCESSORIES

USE OF THE PRODUCT WITH ACCESSORIES OR OTHER EQUIPMENT NOT SUPPLIED BY KENWOOD OR OTHERWISE NOT EXPRESSLY AUTHORIZED BY KENWOOD MAY BE DANGEROUS AND WILL VOID THE PRODUCT WARRANTY. ALL SUCH ACCESSORIES AND ANCILLARY EQUIPMENT ARE EXPRESSLY EXCLUDED FROM THIS WARRANTY. BECAUSE EACH SYSTEM THAT MAY INCORPORATE A PRODUCT IS UNIQUE, KENWOOD DISCLAIMS ANY LIABILITY OR WARRANTY COVERAGE FOR OR WITH RESPECT TO RANGE, COVERAGE OR OPERATION OF THE SYSTEM AS A WHOLE.

WORKMANSHIP WARRANTY

KENWOOD warrants the Services performed by KENWOOD to be free from defects in workmanship for ninety (90) days from System Acceptance. KENWOOD's obligation and Buyer's remedy under this warranty for Services is limited to the correction of the defective Services. Such obligation and remedy are conditional upon the defect not being the result of mishandling, abuse, misuse, or improper maintenance by Buyer, or other causes not attributable to KENWOOD. The correction of defective Services shall be warranted for a period of thirty (30) days or the remainder of the original warranty period, whichever is longer.

WHAT WE WILL PAY FOR AND WHAT YOU MUST PAY FOR

KENWOOD will pay all labor and material expenses for items covered by this Warranty at KENWOOD's location in Suwanee, GA. or at one of the KENWOOD Authorized Service Centers. Contact the phone numbers below to determine where your product must be shipped (it depends on the product to be repaired as to where it is sent). If it is necessary to ship the product for Warranty service, you, the Buyer, are responsible for the initial shipping charges, but we will pay the return shipping charges at ground rates if the product is repaired or replaced under Warranty. The Buyer will pay any express return shipping costs. Unless KENWOOD has installed the system under contract, you are responsible for any charges incurred in diagnosing the problem, removing the product from the rack, cabinet, vehicle, or other site of use and for reinstallation of the repaired or replaced product.

HOW TO OBTAIN WARRANTY SERVICE

Before sending any units for warranty work please call one of the phone numbers below to find out where your unit must be sent. KENWOOD in Suwanee, GA. or an authorized service center (depending on the product) must service your KENWOOD System or System Component. KENWOOD Systems customer service staff is available between 8:30 a.m. and 5:00 p.m., Monday through Friday Eastern Time. If you have difficulty in obtaining service, please write or telephone KENWOOD Systems at the address and phone numbers below.

EXCLUSION OF IMPLIED WARRANTIES AND DAMAGES

Unless considered unlawful or unenforceable under applicable law:

- A. ALL EXPRESS OR IMPLIED WARRANTIES WITH RESPECT TO KENWOOD SYSTEMS AND SYSTEM COMPONENTS, INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE HEREBY EXCLUDED.
- B. KCC'S LIABILITY UNDER THIS WARRANTY SHALL BE LIMITED TO THE REPAIR OR REPLACEMENT, AT KCCS OPTION, OF ANY DEFECTIVE PRODUCT, AND SHALL NOT INCLUDE DAMAGES OF ANY KIND, WHETHER INCIDENTAL, CONSEQUENTIAL, INDIRECT, EXEMPLARY OR OTHERWISE.

This Warranty is enforceable only in the United States of America.

Kenwood USA Corporation 3970 Johns Creek Court Ste 100, Suwanee GA. 30024 (678) 474-4700

KENWOOD

Listen to the Future



TK-6110

Compact VHF Low Band Mobile Radio

GENERAL FEATURES

- 70 W (29.7-37.0, 35.0-50.0 MHz)
- 32 Channels
- Single Priority Scan
- · 8 Character Alphanumeric LCD
- · 3 Digit Sub-Display and Icons
- Transmit / Busy / Call Allert / Warn LED
- Up/Down Channel Selector
- Volume Knob
- Power On/Off Button
- 7 Programmable Radio Keys
- Front Panel Speaker
- Noise Blanker Function
- Encryption / ANI Board Control
- Emergency Call Features

- QT/DQT Encode & Decode
- Operator Selectable Tone
- Two Tone Decode
- DTMF Encode & Decode
- Time Out Timer
- Busy Channel Lockout
- 15 Pin Accessory Connector
- MIL-Spec / Noise-Cancel Microphone
- · M-Type Antenna Connector
- Ignition Sense
- Timed Power Off
- Horn Alert
- Cloning
- PC Programming & Tuning
- MIL-STD-810 C/ D/ E



Options



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

Specifications

Model	TK-6110	
GENERAL		
Frequency Range		
Type 1	29.7-37.0 MHz	
Type 2	35.0-50.0 MHz	
Number of Channels	32	
Channel Spacing		
	20 kHz / 25 kHz	
Channel Step	5 kHz	
Operating Voltage	13.6 V DC ±15%	
Current Drain		
Standby	< 0.6 A	
Receive Transmit	< 2.4 A < 15 A	
Duty Cycle	Transmit: 20%	
Operating Temperature Range	-22'f ~ +140'f (-30'c ~ +60'c)	
Frequency Stability	221 - TI401 (-306 ~ +000)	
(-22° F - +140° F)	±0.0005%	
Antenna Impedance	50 Ω	
Dimensions (W x H x D)	6-1/4 x 2 x 6-1/4 in.	
Projections not included	(160 x 50 x 160 mm)	
Weight (net)	3,5 lbs. (1.6kg)	
FCC ID	AU122274440	
Type 1	ALH29351110	
Type 2	ALH29351120	
IC Certification		
Type 1	2021056661	
Type 2	282195666A	
RECEIVER (Measurements made per El	A/TIA-603)	
Sensitivity (12dB SINAD)	0.25.47	
	0.25µV	
Selectivity	75 dB	
Intermodulation Distortion	70 dB	
Spurious Response	70 dB	
Audio Output	10W at less than 5% distortion	
Band Spread	7500	
Type 1	7.3 MHz	
Type 2	15.0 MHz	-
ANSMITTER (Measurements made per		
RF Output Power	70 W	
Type of Emission	16K0F3E	
Spurious Response	62 d3	
FM Hum & Noise	50 dB	
Microphone Impedance	600 Ω	
Audio Distortion	Less than 3%	
Band Spread		
Type 1	7.3 MHz	
Type 2	15.0 MHz	

Kenwood follows a policy of continuous advancement in development. For this reason specifications may be changed without notice.

Unavailable Frequencies: TK-6110K (29.7 - 37.0 MHz model): 33.60 MHz TK-6110K2 (35.0 - 50.0 MHz model): 42.00 MHz

Applicable MIL-STD

Standard	MIL 810C Methods/Procedures	MIL 810D Methods/Procedures	MIL 810E Methods/Procedures
Dust	510.1/Procedure I	510.2/Procedure I	510.3/Procedure I
Vibration	514.2/Procedure VIII, X	514.3/Procedure I	514.4/Procedure I
Shock	516.2/Procedure I, II, V	516.3/Procedure I, IV	516.4/Procedure I, iV

KENWOO

Kenwood U.S.A. Corporation Communications Sector Headquarters 3970 Johns Creek Court, Suite 100, Suwanee, GA 30024-1265

Order Administration/Distribution P.O. BOX 22745, 2201 East Dominguez St., Long Beach, CA 90801-5745 Kenwood Electronics Canada Inc. Canadian Headquarters and Distribution 6070 Kestrel Road, Mississauga, Ontario, Canada LST 1S8



Rev. 09/08

ing the date of this certification; or,

Bidder: Electronic Communications ofwl

State of West Virginia

VENDOR PREFERENCE CERTIFICATE

Certification and application* is hereby made for Preference in accordance with **West Virginia Code**, §5A-3-37. (Does not apply to construction contracts). **West Virginia Code**, §5A-3-37, provides an opportunity for qualifying vendors to request (at the time of bid) preference for their residency status. Such preference is an evaluation method only and will be applied only to the cost bid in accordance with the **West Virginia Code**. This certificate for application is to be used to request such preference. The Purchasing Division will make the determination of the Resident Vendor Preference, if applicable.

Bidder is an individual resident vendor and has resided continuously in West Virginia for four (4) years immediately preced-

Bidder is a partnership, association or corporation resident vendor and has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or 80% of the ownership interest of Bidder is held by another individual, partnership, association or corporation resident vendor who has

Application is made for 2.5% resident vendor preference for the reason checked:

	maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or,
-	Bidder is a nonresident vendor which has an affiliate or subsidiary which employs a minimum of one hundred state residents and which has maintained its headquarters or principal place of business within West Virginia continuously for the four (4) years immediately preceding the date of this certification; or,
2./.	Application is made for 2.5% resident vendor preference for the reason checked: Bidder is a resident vendor who certifies that, during the life of the contract, on average at least 75% of the employees working on the project being bid are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,
3.	Application is made for 2.5% resident vendor preference for the reason checked: Bidder is a nonresident vendor employing a minimum of one hundred state residents or is a nonresident vendor with an affiliate or subsidiary which maintains its headquarters or principal place of business within West Virginia employing a minimum of one hundred state residents who certifies that, during the life of the contract, on average at least 75% of the employees or Bidder's affiliate's or subsidiary's employees are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,
4./	Application is made for 5% resident vendor preference for the reason checked: Bidder meets either the requirement of both subdivisions (1) and (2) or subdivision (1) and (3) as stated above; or,
5.	Application is made for 3.5% resident vendor preference who is a veteran for the reason checked: Bidder is an individual resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard and has resided in West Virginia continuously for the four years immediately preceding the date on which the bid is submitted; or,
6.	Application is made for 3.5% resident vendor preference who is a veteran for the reason checked: Bidder is a resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard, if, for purposes of producing or distributing the commodities or completing the project which is the subject of the vendor's bid and continuously over the entire term of the project, on average at least seventy-five percent of the vendor's employees are residents of West Virginia who have resided in the state continuously for the two immediately preceding years.
requirer against	understands if the Secretary of Revenue determines that a Bidder receiving preference has failed to continue to meet the ments for such preference, the Secretary may order the Director of Purchasing to: (a) reject the bid; or (b) assess a penalty such Bidder in an amount not to exceed 5% of the bid amount and that such penalty will be paid to the contracting agency cted from any unpaid balance on the contract or purchase order.
authoriz the requ	nission of this certificate, Bidder agrees to disclose any reasonably requested information to the Purchasing Division and es the Department of Revenue to disclose to the Director of Purchasing appropriate information verifying that Bidder has paid irred business taxes, provided that such information does not contain the amounts of taxes paid nor any other information by the Tax Commissioner to be confidential.
	penalty of law for false swearing (West Virginia Code, §61-5-3), Bidder hereby certifies that this certificate is true curate 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.

*Check any combination of preference consideration(s) indicated above, which you are entitled to receive.

RFQ No. 7012 CGO7

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 owned 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.

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

WITNESS THE FOLLOWING SIGNATURE	9
Vendor's Name: Electronic Communications of WU INC-	28
Authorized Signature: Junior 9 Fr Date: Sept 27, 2011	
State of West Virginia	
County of Kanawha , to-wit:	
Taken, subscribed, and sworn to before me this 27 day of September 20 1)	
My Commission expires May 10, 20, 20	
AFFIX SEAL HERE NOTORY PUBLIC EUCBO	<i></i> -
OFFICIAL SEAL STATE OF WEST VIRIGINIA NOTARY PUBLIC	

ELLEN B JACKSON
ELECTRONIC COMMUNICATIONS OF WV
408 OLD GOFF MOUNTAIN ROAD
CROSS LANES, WV 25313
My commission expires May 10, 2020

Please use this document for technical questions, posing in question format.
Technical Questions for RFQ: 7012C007
Vendor Name: Electnonic Communica nows of WV Inc
Questions:
1. Specifications
NONE
2 Delivery
NONE
3 Invoicing
NONE

4	Award
-v. —	
	NONE
Other	:
	NONE
	70070
Procession	