

ELECTRONIC COMMUNICATIONS OF WV INC.

408 Old Goff Mountain Road Charleston, WV 25313

304-776-4091, 304-776-7092 fax

sales@eciowv.com

State Of West Virginia
Department Of Administration
Purchasing Division
2019 Washington Street East
PO Box 50130
Charleston West Virginia 25305-0130

Dear Mr. John Abbott

Regarding RFQ. DJS010281 a bid for the Division of Juvenile Services. Electronic Communications respectfully requests bid preferences of 2.5% of the total bid, for the following reason.

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.

Electronic Communications would also like to be considered for a additional 2.5 % bid preference because 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 years immediately preceding the date of this certification.

Sincerely

Tim Ford

President

Electronic Communications of WV Inc

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.
4. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
5. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, 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, the State may deem this contract null and void, and terminate such contract without further order.
14. **HIPAA BUSINESS ASSOCIATE ADDENDUM:** The West Virginia 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 Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
15. **WEST VIRGINIA ALCOHOL & DRUG-FREE WORKPLACE ACT:** If this Contract constitutes a public improvement construction contract as set forth in Article 1D, Chapter 21 of the West Virginia Code ("The West Virginia Alcohol and Drug-Free Workplace Act"), then the following language shall hereby become part of this Contract: "The contractor and its subcontractors shall implement and maintain a written drug-free workplace policy in compliance with the West Virginia Alcohol and Drug-Free Workplace Act, as set forth in Article 1D, Chapter 21 of the West Virginia Code. The contractor and its subcontractors shall provide a sworn statement in writing, under the penalties of perjury, that they maintain a valid drug-free work place policy in compliance with the West Virginia and Drug-Free Workplace Act. It is understood and agreed that this Contract shall be cancelled by the awarding authority if the Contractor: 1) Fails to implement its drug-free workplace policy; 2) Fails to provide information regarding implementation of the contractor's drug-free workplace policy at the request of the public authority; or 3) Provides to the public authority false information regarding the contractor's drug-free workplace policy."

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 case of discrepancy.
5. All quotations are considered F.O.B. destination unless alternate 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: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130

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.

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

- Bidder is an individual resident vendor and has resided continuously in West Virginia for four (4) years immediately preceding the date of this certification; **or**,
- 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 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.

Bidder understands if the Secretary of Revenue determines that a Bidder receiving preference has failed to continue to meet the requirements for such preference, the Secretary may order the Director of Purchasing to: (a) reject the bid; or (b) assess a penalty against such Bidder in an amount not to exceed 5% of the bid amount and that such penalty will be paid to the contracting agency or deducted from any unpaid balance on the contract or purchase order.

By submission of this certificate, Bidder agrees to disclose any reasonably requested information to the Purchasing Division and authorizes the Department of Revenue to disclose to the Director of Purchasing appropriate information verifying that Bidder has paid the required business taxes, provided that such information does not contain the amounts of taxes paid nor any other information deemed by the Tax 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.

Bidder: Electronic Communications

Signed: [Signature]

Date: Oct 14 2009

Title: President

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

Bid Form

Item #	Description	Estimated Initial Order	Unit Price	Extended Price	Future Unit Price
1	Digital Radio	110	\$ 507.00	\$ 55,770.00	\$ 507.00
2	3 Wire Microphone	50	\$ 111.00	\$ 5,550.00	\$ 111.00
3	Standard Speaker Mic	35	\$ 58.00	\$ 2,030.00	\$ 58.00
4	Multi Unit Charger No Display	9	\$ 378.00	\$ 3,402.00	\$ 378.00
5	Multi Unit Charger Display	3	\$ 760.00	\$ 2,280.00	\$ 760.00
6	High Cap Li Battery	12	\$ 73.50	\$ 882.00	\$ 73.50
7	25 Watt Repeater	1	\$ 2,345.00	\$ 2,345.00	\$ 2,345.00
8	Fiberglass Antenna	1	\$ 70.00	\$ 70.00	\$ 70.00
9	Cable 1/2" LDF Poly	100	\$ 1.98	\$ 198.00	\$ 1.98
10	40 Watt Control Station	2	\$ 661.00	\$ 1,322.00	\$ 661.00
11	Fiberglass Antenna Control	2	\$ 125.00	\$ 250.00	\$ 125.00
12	Replacement Belt Clip	12	\$ 9.50	\$ 114.00	\$ 9.50
13	Uhf Stubby	6	\$ 10.00	\$ 60.00	\$ 10.00
14	Uhf Whip	6	\$ 10.00	\$ 60.00	\$ 10.00
15	Leather Carry Case	6	\$ 31.00	\$ 186.00	\$ 31.00
16	Swivel Belt Clip	35	\$ 16.00	\$ 560.00	\$ 16.00
17	Installation-Hourly Rate	6	\$ 60.00	\$ 360.00	\$ 60.00
Total Bid				\$ 75,439.00	

BID FORM

Item #	Description	Estimated Initial Order	Unit Price	Extended Price	Future Unit Price for One (1) Each
1	Digital 5 Watt Radio	110	507.00	55,770.00	507.00
2	3-wire mini-lapel mic/w earphone	50	111.00	5,550.00	111.00
3	Standard Speaker Microphone	35	58.00	2,030.00	58.00
4	Multi Unit Charger Non Display	9	378.00	3,402.00	378.00
5	Multi Unit Charger With Display	3	760.00	2,280.00	760.00
6	High Capacity Lithium Ion battery	12	73.00	882.00	73.00
7	25 Watt Repeater in 30" Cabinet	1	2345.00	2345.00	2345.00
8	Fiberglass Antenna	1	70.00	70.00	70.00
9	Cable 1/2" LDF Helix Poly Jkt per ft	100	1.98	198.00	1.98
10	40 Watt Control Station & Accessories	2	661.00	1322.00	661.00
11	Fiberglass Antenna for Control Station	2	125.00	250.00	125.00
12	Replacement Belt Clip	12	9.50	114.00	9.50
13	UHF Stubby Antenna	6	10.00	60.00	10.00
14	UHF Whip Antenna	6	10.00	60.00	10.00
15	Leather Carry Case	6	31.00	186.00	31.00
16	Leather Swivel beltloop clip/w port. D-Ring attachment	35	16.00	560.00	16.00
17	Installation- hourly rate	6hr.	60.00 /hr.	360.00	60.00
TOTAL BID				\$ 75,439.00	



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

Request for Quotation

RFQ NUMBER
DJS010281

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF:
JOHN ABBOTT 304-558-2544

VENDOR

*709042444 304-776-4091
 ELECTRONIC COMMUNICATIONS WV
 408 OLD GOFF MOUNTAIN ROAD
 CROSS LANES WV 25313

SHIP TO

DIVISION OF JUVENILE SERVICES
 SECOND FLOOR
 1200 QUARRIER STREET
 CHARLESTON, WV
 25301 304-558-6029

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
09/21/2009	NET. 30	BEST WAY	Dest	Pre Paid Dealer
BID OPENING DATE: 10/07/2009		BID OPENING TIME 01:30PM		

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	LS		725-74		
TWO-WAY RADIOS, PORTABLE						
OPEN-END CONTRACT TO PROVIDE PORTABLE UHF DIGITAL TWO-WAY RADIOS FOR THE WEST VIRGINIA DIVISION OF JUVENILE SERVICES, PER THE SPECIFICATIONS.						
EXHIBIT 3						
LIFE OF CONTRACT: THIS CONTRACT BECOMES EFFECTIVE ON AND EXTENDS FOR A PERIOD OF ONE (1) YEAR OR UNTIL SUCH "REASONABLE TIME" THEREAFTER AS IS NECESSARY TO OBTAIN A NEW CONTRACT OR RENEW THE ORIGINAL CONTRACT. THE "REASONABLE TIME" PERIOD SHALL NOT EXCEED TWELVE (12) MONTHS. DURING THIS "REASONABLE 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 ORIGINAL CONTRACT AND SHALL BE LIMITED TO TWO (2) ONE (1) YEAR PERIODS.						

RECEIVED
 2009 OCT 14 PM 12:26
 WV PURCHASING DIVISION

SEE REVERSE SIDE FOR TERMS AND CONDITIONS			
SIGNATURE <i>Carol S. Ford</i>	TELEPHONE 304-776-4091	DATE Oct 14-2009	
TITLE President	FEIN 550520004	ADDRESS CHANGES TO BE NOTED ABOVE	

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'



State of West Virginia
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DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
09/21/2009	NET-30 Days	Best way	Destination	Paid Dealer
BID OPENING DATE: 10/07/2009		BID OPENING TIME 01:30PM		

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>CANCELLATION: THE DIRECTOR OF PURCHASING RESERVES THE RIGHT TO CANCEL THIS CONTRACT IMMEDIATELY UPON WRITTEN NOTICE TO THE VENDOR IF THE COMMODITIES AND/OR SERVICES SUPPLIED ARE OF AN INFERIOR QUALITY OR DO NOT CONFORM TO THE SPECIFICATIONS OF THE BID AND CONTRACT HEREIN.</p> <p>OPEN MARKET CLAUSE: THE DIRECTOR OF PURCHASING MAY AUTHORIZE A SPENDING UNIT TO PURCHASE ON THE OPEN MARKET, WITHOUT THE FILING OF A REQUISITION OR COST ESTIMATE, ITEMS SPECIFIED ON THIS CONTRACT FOR IMMEDIATE DELIVERY IN EMERGENCIES DUE TO UNFORESEEN CAUSES (INCLUDING BUT NOT LIMITED TO DELAYS IN TRANSPORTATION OR AN UNANTICIPATED INCREASE IN THE VOLUME OF WORK.)</p> <p>QUANTITIES: QUANTITIES LISTED IN THE REQUISITION ARE APPROXIMATIONS ONLY, BASED ON ESTIMATES SUPPLIED BY THE STATE SPENDING UNIT. IT IS UNDERSTOOD AND AGREED THAT THE CONTRACT SHALL COVER THE QUANTITIES ACTUALLY ORDERED FOR DELIVERY DURING THE TERM OF THE CONTRACT, WHETHER MORE OR LESS THAN THE QUANTITIES SHOWN.</p> <p>ORDERING PROCEDURE: SPENDING UNIT(S) SHALL ISSUE A WRITTEN STATE CONTRACT ORDER (FORM NUMBER WV-39) TO THE VENDOR FOR COMMODITIES COVERED BY THIS CONTRACT. THE ORIGINAL COPY OF THE WV-39 SHALL BE MAILED TO THE VENDOR AS AUTHORIZATION FOR SHIPMENT, A SECOND COPY MAILED TO THE PURCHASING DIVISION, AND A THIRD COPY RETAINED BY THE SPENDING UNIT.</p> <p>BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THE STATE MAY DEEM THE CONTRACT NULL AND VOID, AND TERMINATE SUCH CONTRACT WITHOUT FURTHER ORDER.</p>						

SIGNATURE <i>[Signature]</i>				SEE REVERSE SIDE FOR TERMS AND CONDITIONS		TELEPHONE 304-776-4091	DATE Oct 14 2009
TITLE President	FEIN 550520004	ADDRESS CHANGES TO BE NOTED ABOVE					

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3

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 CHARLESTON, WV
 25301 304-558-6029

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
09/21/2009				

BID OPENING DATE: **10/07/2009** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>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.</p> <p>REV. 05/26/2009</p> <p>EXHIBIT 4</p> <p>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 VIRGINIA. 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.</p> <p>REV. 3/88</p> <p>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 AGENCY AS A CONDITION OF AWARD.</p> <p style="text-align: center;">NOTICE</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Joseph E. Faust</i>	TELEPHONE 304-776-4091	DATE Oct 14 2009
TITLE President	FEIN 550520004	ADDRESS CHANGES TO BE NOTED ABOVE

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**Request for
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RFQ NUMBER
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PAGE
4

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 1200 QUARRIER STREET
 CHARLESTON, WV
 25301 304-558-6029

DATE PRINTED 09/21/2009	TERMS OF SALE <i>Net 30 Days</i>	SHIP VIA <i>Best Way</i>	F.O.B. <i>Destination</i>	FREIGHT TERMS <i>Prepaid Dealer</i>
BID OPENING DATE: 10/07/2009		BID OPENING TIME 01:30PM		

LINE	QUANTITY	UOP	CAT NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>A SIGNED BID MUST BE SUBMITTED TO:</p> <p>DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130</p> <p>THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:</p> <p>SEALED BID</p> <p>BUYER: JOHN ABBOTT-----</p> <p>RFQ. NO.: DJS010281-----</p> <p>BID OPENING DATE: 10/07/2009-----</p> <p>BID OPENING TIME: 1:30 PM-----</p> <p>PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID: <i>304-776-7092</i></p> <p>CONTACT PERSON (PLEASE PRINT CLEARLY): <i>Tim Ford or Dustin Osborne</i></p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS		
SIGNATURE <i>[Signature]</i>	TELEPHONE 304-776-4091	DATE Oct 14 2009
TITLE President	FEIN 550520004	ADDRESS CHANGES TO BE NOTED ABOVE

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PAGE
5

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DATE PRINTED 09/21/2009	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
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BID OPENING DATE: 10/07/2009 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
***** THIS IS THE END OF RFQ DJS010281 ***** TOTAL:						\$ 75,439.00

SEE REVERSE SIDE FOR TERMS AND CONDITIONS			
SIGNATURE <i>[Signature]</i>	TELEPHONE 304-776-4091	DATE Oct 14 2009	
TITLE President	FEIN 550520004	ADDRESS CHANGES TO BE NOTED ABOVE	

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SPECIFICATIONS FOR RADIOS & EQUIPMENT

1.	UHF Digital Portable 5 Watt Radio Kenwood <i>NEXEDGE NX-300</i> or equivalent. Must be compatible with Motorola HT-1000 radios and must be narrow band compliant. NXDN Digital Air Interface or equivalent. To include: Emergency call feature, Fleet Sync or equivalent, & voice Scrambler. Antenna, Lithium Ion battery, 2.5" belt clip, individual charger, standard remote microphone and first time programming included. Radio must also be adaptable to use metal swivel belt clip.
2.	3-wire mini lapel mic/with earphone, universal connector (Black) Intrinsically Safe Approved Accessory. Kenwood or Equal
3.	Standard remote microphone Kenwood or Equal. Must have a spring clip to allow it to be clipped to clothing. The microphone shall be capable of extending a minimum of 24" inches.
4.	Multi-Unit Charger, Non-Display to operate in a standard 110V US Plug. Must support lithium ion & Ni-cad batteries. Batteries shall be charged to full capacity in four (4) hours or less. The battery shall have the capacity to provide eight (8) hours of operation when utilizing a duty cycle of 5% transmit, 5% receive, and 90% standby. All equipment shall function without unintended interaction and interference to other components.
5.	Multi-Unit Charger -110V US Plug With Display must support lithium ion & Ni-cad batteries. Batteries shall be charged to full capacity in four (4) hours or less. The battery shall have the capacity to provide eight (8) hours of operation when utilizing a duty cycle of 5% transmit, 5% receive, and 90% standby. All equipment shall function without unintended interaction and interference to other components.
6.	High Capacity Lithium Ion Battery O. E. M. must be compatible with Item #1 above
7.	25 Watt Repeater installed in 30" Indoor Cabinet. Must be compatible with <i>NEXEDGE Digital Technology</i> or equivalent.
8.	Fiberglass Antenna will be compatible with Item #7 above.
9.	Cable 1/2" LDF HELIAX POLY JKT per foot. Must be compatible with <i>Nexedge Digital Technology</i> OR the equivalent.
10.	40 Watt Control Station, including Power Supply, Control Station Mount & Control Station Microphone.
11.	Outside Control Station Fiberglass Antenna must be compatible with Item # 10 above.
12.	Replacement Plastic Belt Clips compatible with Item #1
13.	UHF Stubby Antenna Must be compatible with Item # 1 above.
14.	UHF Whip Antennas. Must be compatible with Item # 1 above.
15.	Leather Carrying Case is to be provided with each radio and be Black in color must be compatible with Item # 1 above.
16.	Leather Swivel belt loop clip with portable D-Ring Attachment. Compatible with Item #1

17. Installation of repeater and mobile stations must be performed by the winning vendor. Hours for installation are additional, and the estimated number of hours will be submitted for each location by using the hourly rate bid in #17 on the bid sheet. Vendor must supply any and all hardware to assist in the installation of the Repeater, and Control Station. Surge Suppressor and Jumpers will be included and must be compatible with System Installed. All vendors bidding on the equipment listed in the specifications are required to submit in writing that the product meets or exceeds the specifications set forth. If a vendor bids a product which does not meet the specifications as outlined for that item, but they believe exceeds the specifications, then the vendor is required to submit their exceptions in writing, specifically listing the item and line specification(s) which they are taking exception to.

Vendors should submit a product sheet with their bid that includes each item listed and at a minimum: Manufacturer, Model number and general specifications for each item. The vendor shall provide this documentation within 3 days upon request.

All first time programming and delivery to be included in the price. Vendor must be able to deliver repeater, antenna and mast within 90 days; & all other equipment within 30 days of date order is placed.

Vendor must be able to supply All Items Listed.



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304-558-2544

VENDOR
 *709042444 304-776-4091
 ELECTRONIC COMMUNICATIONS WV
 408 OLD GOFF MOUNTAIN ROAD
 CROSS LANES WV 25313

SHIP TO
 DIVISION OF JUVENILE SERVICES
 SECOND FLOOR
 1200 QUARRIER STREET
 CHARLESTON, WV
 25301 304-558-6029

DATE PRINTED 09/27/2009	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
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BID OPENING DATE: **10/07/2009** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
ADDENDUM #01						
THIS ADDENDUM IS ISSUED TO MODIFY THE ORIGINAL REQUEST FOR QUOTATION SPECIFICATIONS, PER THE ATTACHED DOCUMENT.						
0001	1	LS		725-74		
TWO-WAY RADIOS, PORTABLE						
***** THIS IS THE END OF RFQ DJS010281 ***** TOTAL:						\$ 75,439.00

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE: *[Signature]* TELEPHONE: **304-776-4091** DATE: **Oct 14 2009**

TITLE: **President** FEIN: **550520004** ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

REMOVE THE LANGUAGE IN ITEM# 15 THAT STATES THAT A LEATHER CARRYING CASE IS TO BE PROVIDED WITH EACH RADIO. This item will be ordered on an as needed basis.

CORRECTED VERSION

15.	Leather Carrying Case is to be Black in color must be compatible with Item # 1 above.
-----	---



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

Request for Quotation

RFQ NUMBER
 DJS010281

PAGE
 1

ADDRESS CORRESPONDENCE TO ATTENTION OF:
 JOHN ABBOTT
 304-558-2544

*709042444 304-776-4091
 ELECTRONIC COMMUNICATIONS WV
 408 OLD GOFF MOUNTAIN ROAD
 CROSS LANES WV 25313

DIVISION OF JUVENILE SERVICES
 SECOND FLOOR
 1200 QUARRIER STREET
 CHARLESTON, WV
 25301 304-558-6029

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
10/06/2009				

BID OPENING DATE: 10/14/2009 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
				ADDENDUM #02		
				THIS ADDENDUM IS ISSUED TO ANSWER VENDOR QUESTIONS AND CLARIFY THE ORIGINAL REQUEST FOR QUOTATION SPECIFICATIONS, PER THE ATTACHED DOCUMENT; AND EXTEND THE BID OPENING.		
				REVISED BID OPENING DATE: 10/14/2009; 1:30 PM		
				NO ADDITIONAL QUESTIONS WILL BE ACCEPTED.		
0001	1	LS		725-74		
				TWO-WAY RADIOS, PORTABLE		
				***** THIS IS THE END OF RFQ DJS010281 ***** TOTAL: <u>75,439.00</u>		

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE: *[Signature]* TELEPHONE: 304-776-4091 DATE: Oct 14 2009

TITLE: President FEIN: 550520004 ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

ADDENDUM TO BID DJS010281

The intent of bidding the Kenwood, model NX-300 or equivalent is based on the current situation for the Division of Juvenile Services. We are currently operating with the Motorola HT 1000's (analog only radio) in the majority of our facilities. To avoid replacing all radios at the same time we have requested a radio with the capability of operating as an analog unit or a digital unit. With this capability we can purchase replacement radios and supplement our existing facilities without converting the entire radio stock at one time. In the future when we are required to convert to the digital standard we will be well on the way with the conversion.

Clarification in regards to the question about the timing of the delivery of the radios.

The base stations and repeaters need to be delivered and installed within 90 days of the time the order is placed. If the order includes both a base station and repeater as well as hand held radios they should all be delivered together. If the order is for the hand held radios or accessories, only those items must be delivered within 30 days of the date the order is placed.

KENWOOD

Listen to the Future

NEXEDGE™

NX-200/300

NEXEDGE™ VHF/UHF Digital & FM Portable Radios

NXDN®

FleetSync®
by KENWOOD

GENERAL FEATURES

- 5 W (136-174 MHz) Models
- 5 W (400-470, 450-520 MHz) Models
- 512 CH-GID / 128 Zones
- 12-Key Keypad Models
- 14 Character Alphanumeric Aliases
- Backlit Dot Matrix LCD
- 3-Digit Sub-Display
- Function/Status LCD Icons
- RSSI Indicator
- Date & 12/24 Hour Time Clock
- Transmit/Busy/Call Alert/Warn LED
- On/Off Volume Knob
- 16-Position Mechanical Selector
- 6 Front PF & Menu Keys
- 2 Side PF Keys
- Emergency/AUX Key
- 500 mW Speaker Audio
- VOX Ready
- Emergency Call Features
- Emergency Man-Down Option
- Lone Worker
- Multi-Language Display
- Programmable TX/RX Indication (On/Off)
- Special Alert Tone Patterns
- Time Out Timer
- Busy Channel Lockout
- LCD Battery Status Indicator
- Low Battery Alert
- Battery Saver
- Weather-sealed ACC Connector
- MIL-Spec Speaker Mic Options
- KMC-38GPS Speaker Mic Option
- KPG-111D Windows® FPU
- Flash Firmware Upgrading
- Front Panel Test & Tune
- Cloning
- MIL-STD-810 C/D/E/F
- MIL-STD "Driven-Rain"
- IP-54/55 Water & Dust Intrusion
- Easy Option Port
- PC Serial Interface
- SDM Manual Input¹
- Transparent Data Mode¹
- Intrinsically Safe Option
- VGS-1 Voice Guide/ Voice & GPS Data Storage Option

DIGITAL – COMMON

- NXDN® Digital Air Interface
- AMBE+2™ VOCODER
- 6.25 & 12.5 kHz Channels
- Over-the-Air Alias
- Paging Call
- Emergency Call
- All Group Call
- Status Messaging¹
- Remote Stun/Kill²
- Remote Check¹

- Short & Long Data Messages¹
- GPS Location with Voice¹
- NXDN® Scrambler Included (Conventional: per CH)

DIGITAL – CONVENTIONAL MODE

- 64 Radio Access Numbers (RAN)
- DTMF (Encode/Decode)
- Individual & Group Selective Call
- Mixed FM/Digital Operation

DIGITAL – TRUNKING MODE

- Individual Private Call
- Group Call
- Broadcast Call
- Transmission Trunked Mode²
- Message Trunked Mode²
- Call Queuing with Priority²
- Call Queue Pre-emption²
- Late Entry (UID & GID)²
- 4 Priority Monitor ID's²
- Remote Group Add¹
- Failsoft Mode
- Multi-Site IP Network Compatible

SCAN

- Single Zone / Multi-Zone / List Scan
- Dual Priority Scan (Conventional)

FM MODES – GENERAL

- 25 & 12.5 kHz Channels
- FleetSync®/II
- DTMF Encode / Decode
- Companded Audio
- Voice Inversion Scrambler
- Encryption/ANI Board Control

FM CONVENTIONAL ZONES

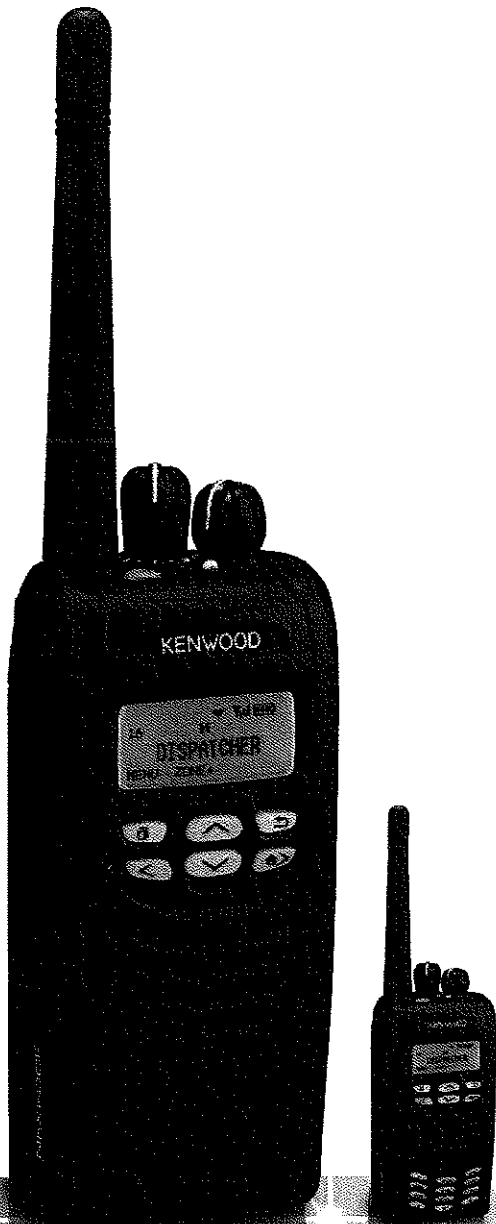
- QT / DQT
- Two-Tone Decode
- Single/Two-Tone Encode
- Call Key 1-6
- Operator Selectable Tone

FM LTR® TRUNKED ZONES

- Kenwood LTR® Features

FleetSync®/II (FM)

- PTT ID Digital ANI
- Selective Call & Group Call
- Status Messaging¹
- Emergency Status
- Caller ID Display
- Short Text Messages¹
- Power On/Off Status Messages¹
- Send/Display GPS (KMC-38GPS)¹
- PTT ID & Emergency GPS Reporting¹
- Status Message Block GPS Reporting¹



Options

■ **KNB-47L**
Li-Ion Battery
(1950mAh)



■ **KNB-48L**
Li-Ion Battery
(2550mAh)

KNB-48L

■ **KNB-50NC**
Ni-MH Battery
(2000mAh) Intrinsically Safe

■ **KSC-32**
Tri-Chemistry Rapid
Rate Charger



■ **KSC-326**
Rapid Rate Six Unit Charger
for Ni-CD/Ni-MH/Li-Ion



■ **KMC-41M**
MIL-STD & IP 54/55
Speaker Microphone



■ **KMC-38GPS**
GPS Speaker
Microphone



■ **KHS-11**
Heavy Duty Earphone



■ **KEP-1**
Heavy Duty Earphone



■ **KRA-22/23**
VHF/UHF Helical Antenna



■ **KRA-26/27**
VHF/UHF Whip Antenna



■ **KRA-16/17**
VHF/UHF Stubby Antenna



■ **KRA-25**
VHF High Gain Antenna



■ **KRA-28**
VHF Broad
Band Antenna



■ **VGS-1**
Voice Guide
& Storage Unit



■ **KBH-11**
Belt Clip (2.5")



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

Main Specifications

		NX-200	NX-300
GENERAL			
Frequency Range	Type 1 Type 2	136-174 MHz	450-520 MHz 400-470 MHz
Number of Channels		512	
Zones		128	
Max. Channels per Zone		250	
Channel Spacing	Analog Digital	12.5 / 15 / 25 / 30 kHz 6.25 / 12.5 kHz	12.5 / 25 kHz 6.25 / 12.5 kHz
Operating Voltage		7.5V DC ± 20%	
Battery Life (with KNB-48L)	5-5-90 10-10-80	Approx. 14.5 hours Approx. 9.0 hours	
Operating Temperature Range		-22° F to +140° F (-30° C to +60° C)	
Frequency Stability		± 2.0 ppm ± 1.0 ppm	
Antenna Impedance		50 Ω	
Dimensions (W x H x D)	Projections not included	Radio only with KNB-47L with KNB-48L 2.28 x 5.02 x 1.63 in (58 x 127.5 x 41.3 mm) 2.28 x 5.02 x 1.63 in (58 x 127.5 x 41.3 mm) 2.28 x 5.02 x 1.91 in (58 x 127.5 x 48.5 mm)	
Weight (net)	Radio only with KNB-47L with KNB-48L	8.82 oz (250 g) 13.23 oz (375 g) 14.29 oz (405 g)	
FCC ID	Type 1 Type 2	ALH378400	ALH378500 ALH378501
IC Certification	Type 1 Type 2	282D-378400	282D-378500 282D-378501

		NX-200	NX-300
RECEIVER			
Sensitivity	Digital @ 6.25kHz (3% BER) Digital @ 12.5kHz (3% BER) Analog (12 dB SINAD)	0.20 μV 0.25 μV 0.25 μV	
Selectivity	Analog @ 25 kHz Analog @ 12.5 kHz	72 dB 65 dB	
Intermodulation Distortion	Analog	70 dB (±50, 100 kHz)	
Spurious Response	Analog	70 dB	
Audio Distortion		Less than 3%	
Audio Output		500 mW / 8 Ω	
TRANSMITTER			
RF Power Output		5 W / 1 W	
Spurious Response		70 dB	
FM Hum & Noise	Analog @ 25 kHz Analog @ 12.5 kHz	45 dB 40 dB	
Audio Distortion		Less than 3%	
Modulation		16K0F3E, 11K0F3E, 8K30F1E, 8K30F1D, 8K30F7W, 4K00F1E, 4K00F1D, 4K00F7V, 4K00F2D	

Analog measurements made per IIA/EIA 603 and specifications shown are typical. Kenwood reserves the right to change specifications without prior notice or obligation.

FleetSync® is a registered trademark of Kenwood Corporation.
LTR® is a registered trademark of Transcript International.
AMBE-2™ is a trademark of Digital Voice Systems Inc.
Windows® is a registered trademark of Microsoft Corporation.
NXDN® is a trademark of Kenwood Corporation and Icom Inc.
NEXEDGE™ is a trademark of Kenwood Corporation.

Applicable MIL-STD & IP

MIL Standard	MIL 810C Methods/Procedures	MIL 810D Methods/Procedures	MIL 810E Methods/Procedures	MIL 810F Methods/Procedures
Low Pressure	500.1/Procedure I	500.2/Procedure I, II	500.3/Procedure I, II	500.4/Procedure I, II
High Temperature	501.1/Procedure I, II	501.2/Procedure I, II	501.3/Procedure I, II	501.4/Procedure I, II
Low Temperature	502.1/Procedure I	502.2/Procedure I, II	502.3/Procedure I, II	502.4/Procedure I, II
Temperature Shock	503.1/Procedure I	503.2/Procedure I	503.3/Procedure I	503.4/Procedure I, II
Solar Radiation	505.1/Procedure I	505.2/Procedure I	505.3/Procedure I	505.4/Procedure I
Rain	506.1/Procedure I, II	506.2/Procedure I, II	506.3/Procedure I, II	506.4/Procedure I, III
Humidity	507.1/Procedure I, II	507.2/Procedure II, III	507.3/Procedure II, III	507.4
Salt Fog	509.1/Procedure I	509.2/Procedure I	509.3/Procedure I	509.4
Dust	510.1/Procedure I	510.2/Procedure I	510.3/Procedure I	510.4/Procedure I, III
Vibration	514.2/Procedure VIII, X	514.3/Procedure I	514.4/Procedure I	514.5/Procedure I
Shock	516.2/Procedure I, II, V	516.3/Procedure I, IV	516.4/Procedure I, IV	516.5/Procedure I, IV
International Protection Standard				
Dust & Water Protection	IP54/55			

Footnotes from Front:

* Requires NX subscriber unit PC Serial Interface compatible software application (e.g. Kenwood AVI & Dispatch Messaging software) or hardware (e.g. console).

† These trunked features are primarily system programming and operational dependent. Priority Monitor also requires NX subscriber settings.

Listen to the Future

Kenwood has always connected with people through sound. Now we want to expand the world of sound in ways that only Kenwood can, listening to our customers and to the pulse of the coming age as we head toward a future of shared discovery, inspiration and enjoyment.

Kenwood U.S.A. Corporation
Communications Sector Headquarters
3970 Johns Creek Court, Suite 100, Suwanee, GA 30024
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 L5T 1S8



www.kenwoodusa.com



ADS#11309 Printed in USA



Sales Quotation

Electronic Communications of WV. Inc.

Total Communications Sales and Service

DATE OCTOBER 14, 2009

408 Old Goff MT. Rd.
Cross Lanes WV, 25313
Phone 304-776-4091 Fax 304-776-7092
Toll Free in WV. (800) 570-4091

TO Division of Juvenile Services

SHIP
TO

SALESPERSON	JOB	SHIPPING METHOD	SHIPPING TERMS	DELIVERY DATE	PAYMENT TERMS	DUE DATE
Dustin Osborne	Portable Radio	Standard	FOB	15 days ARO	Net 30	Net 30

QTY	ITEM #	DESCRIPTION	LIST PRICE	CONTRACT PRICE	CONTRACT EXTENDED
1	1	NX-300K 5W, 14 Alpha LCD Display, 6 control keys	684.00	507.00	507.00
1	2	KRA-27M UHF Whip Antenna	14.00	Inc	Inc
1	3	Lithium Ion Battery 1950mAh	105.00	Inc	Inc
1	4	KSC-32 Rapid Charger	70.00	Inc	Inc

SUB TOTAL 507.00

TAX Exempt

TOTAL 507.00

KENWOOD

Listen to the Future

NEXEDGE™

NX-700(H)/800(H)

NEXEDGE™ VHF/UHF Digital & FM Mobile Radios

NXDN®

FleetSync®

GENERAL FEATURES

- 30W / 50W (136-174 MHz) Models
- 30W / 45W (400-470, 450-520 MHz) Models
- 512 CH-GID / 128 Zones
- Dash & Remote Mount
- 14 Character Alphanumeric Aliases
- Backlit Dot Matrix LCD
- 3-Digit Sub-Display
- Function/Status LCD Icons
- RSSI Indicator
- Date & 12/24 Hour Time Clock
- Transmit/Busy/Call Alert/Warn LED
- On/Off Power Control
- 4 Up/Down Selectors
- 6 Front PF Keys
- Emergency/AUX Key
- 4W Speaker Audio
- Emergency Call Features
- Lone Worker
- Multi-Language Display
- Programmable TX/RX Indication (On/Off)
- Special Alert Tone Patterns
- Time Out Timer
- Busy Channel Lockout
- DB-25 Accessory Connector
- 9 Programmable AUX I/Os
- 2 Programmable AUX Outputs
- Ignition Sense
- Public Address / Horn Alert Option
- MIL-Spec Standard Mic
- MIL-Spec 12-Key DTMF Mic Option
- KPG-111D Windows® FPU
- Flash Firmware Upgrading
- Front Panel Test & Tune
- Cloning
- MIL-STD-810 C/D/E/F
- MIL-STD "Driven-Rain"
- IP-54/55 Water & Dust Intrusion
- Easy Option Port
- PC Serial Interface
- SDM Manual Input¹
- Transparent Data Mode¹
- GPS Receiver Option
- VGS-1 Voice Guide / Voice & GPS Data Storage Option

DIGITAL – COMMON

- NXDN® Digital Air Interface
- AMBE+2™ VOCODER
- 6.25 & 12.5 kHz Channels
- Over-the-Air Alias
- Paging Call
- Emergency Call
- All Group Call
- Status Messaging¹
- Remote Stun/Kill¹
- Remote Check¹
- Short & Long Data Messages¹
- GPS Location with Voice¹
- NXDN® Scrambler Included (Conventional: per CH)

DIGITAL CONVENTIONAL MODE

- 64 Radio Access Numbers (RAN)
- DTMF (Encode/Decode)
- Individual & Group Selective Call
- Mixed FM/Digital Operation

DIGITAL TRUNKING MODE

- Individual Private Call
- Group Call
- Broadcast Call
- Transmission Trunked Mode²
- Message Trunked Mode²
- Call Queuing with Priority²
- Call Queue Pre-emption²
- Late Entry (UID & GID)²
- 4 Priority Monitor ID's²
- Remote Group Add¹
- Failsoft Mode
- Multi-Site IP Network Compatible

SCAN

- Single Zone / Multi-Zone / List Scan
- Dual Priority Scan (Conventional)

FM MODES - GENERAL

- 25 & 12.5 kHz Channels
- FleetSync®/II
- DTMF Encode/Decode
- Companded Audio
- Voice Inversion Scrambler
- Encryption/ANI Board Control

FM CONVENTIONAL ZONES

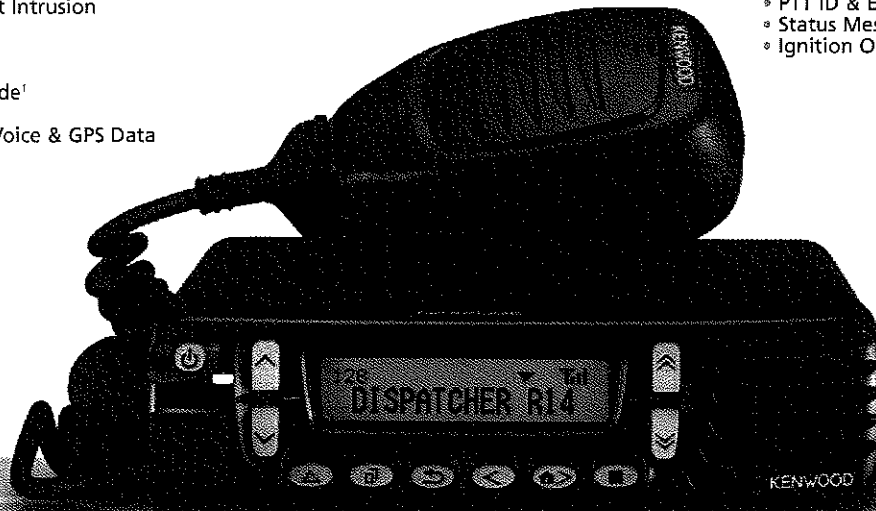
- QT / DQT
- Two-Tone Decode
- Single/Two-Tone Encode
- Call Key 1-6
- Operator Selectable Tone

FM LTR® TRUNKED ZONES

- Kenwood LTR® Features

FleetSync®/II (FM)

- PTT ID Digital ANI
- Selective Call & Group Call
- Status Messaging¹
- Emergency Status
- Caller ID Display
- Short Text Messages¹
- Power On/Off Status Messages¹
- Input/Output Status Messages¹
- Send/Display GPS¹
- PTT ID & Emergency GPS Reporting¹
- Status Message Block GPS Reporting¹
- Ignition On/Off GPS Reporting¹



Options

■ **KMC-35**
Microphone



■ **VGS-1**
Voice Guide
& Storage Unit



■ **KAP-2**
Horn Alert
/ PA Relay Unit



■ **KCT-46**
Ignition Sense Cable



■ **KMC-36**
Microphone
with Keypad



■ **KRK-10**
Panel Remote Kit



■ **KCT-23M**
DC Cable (10 feet)



■ **KMB-10**
Key Lock Adapter



■ **KMC-9C**
Control Station
Desktop Microphone



■ **KPS-15**
DC Power Supply



■ **KCT-23M3**
DC Cable (23 feet)



■ **KLF-2**
Line Noise Filter



Main Specifications

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

GENERAL		NX-700(H) K	NX-800(H) K
Frequency Range	Type 1 Type 2	136-174 MHz	450-520 MHz 400-470 MHz
Number of Channels			512
Zones			128
Max. Channels per Zone			250
Channel Spacing	Analog Digital	12.5 / 15 / 25 / 30 kHz 6.25 / 12.5 kHz	12.5 / 25 kHz 6.25 / 12.5 kHz
Operating Voltage		13.6 V DC \pm 15%	
Operating Temperature Range		-22° F to +140° F (-30° C to +60° C)	
Frequency Stability		\pm 1.0 ppm	
Antenna Impedance		50 Ω	
Dimensions (W x H x D)	Projections not included	6.30 x 1.77 x 6.18 in (160 x 45 x 157 mm)	
Weight (net)		3.04 lb (1.38 kg)	
FCC ID	K Type 1 K Type 2 HK Type 1 HK Type 2	K44378600 K44378601	K44378700 K44378701 K44378702 K44378703
IC Certification	K Type 1 K Type 2 HK Type 1 HK Type 2	282F-378600 282F-378601 282F-378601	282F-378700 282F-378701 282F-378702 282F-378703

Analog measurements made per Part 15.403 and specifications shown are typical.
Kenwood reserves the right to change specifications without prior notice or obligation.

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AMBE+2™ is a trademark of Digital Voice Systems Inc.
Windows® is a registered trademark of Microsoft Corporation.
NXDN® is a trademark of Kenwood Corporation and Icom Inc.
NEXEDGE™ is a trademark of Kenwood Corporation.

RECEIVER		NX-700(H) K	NX-800(H) K
Sensitivity	Digital @ 6.25 kHz (3% BER) Digital @ 12.5 kHz (3% BER) Analog (12 dB SINAD)	0.20 μ V 0.28 μ V 0.25 μ V	
Selectivity	Analog @ 25 kHz Analog @ 12.5 kHz	80 dB 70 dB	
Intermodulation	Analog	75 dB (\pm 50, 100 kHz)	
Spurious Response	Analog	90 dB	85 dB
Audio Distortion		Less than 3%	
Audio Output		4 W / 4 Ω	
TRANSMITTER			
RF Power Output	Mid Power	30 W to 1 W	30 W to 1 W 25 W to 1 W (490-520 MHz)
	High Power	50 W to 10 W	45 W to 10 W 40 W to 10 W (430-512 MHz) 35 W to 10 W (512-520 MHz)
Spurious Response		73 dB	75 dB
FM Hum & Noise	Analog @ 25 kHz Analog @ 12.5 kHz		50 dB 45 dB
Audio Distortion		Less than 3%	
Modulation		16K0F3E, 14K4F1D, 11K0F3E, 8K30F1E, 8K30F1D, 8K30F7W, 4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D	

Footnotes from Front:

* Requires NX subscriber unit PC Serial interface compatible software application (e.g. Kenwood AVL & Dispatch Messaging software) or hardware (e.g. console).
† These trunked features are primarily system programming and operational dependent. Priority Monitor also requires NX subscriber settings.

Applicable MIL-STD & IP

MIL Standard	MIL 810C Methods/Procedures	MIL 810D Methods/Procedures	MIL 810E Methods/Procedures	MIL 810F Methods/Procedures
Low Pressure	500.1/Procedure I	500.2/Procedure I, II	500.3/Procedure I, II	500.4/Procedure I, II
High Temperature	501.1/Procedure I, II	501.2/Procedure I, II	501.3/Procedure I, II	501.4/Procedure I, II
Low Temperature	502.1/Procedure I	502.2/Procedure I, II	502.3/Procedure I, II	502.4/Procedure I, II
Temperature Shock	503.1/Procedure I	503.2/Procedure I	503.3/Procedure I, II	503.4/Procedure I, II
Solar Radiation	505.1/Procedure I	505.2/Procedure I	505.3/Procedure I	505.4/Procedure I
Rain	506.1/Procedure I, II	506.2/Procedure I, II	506.3/Procedure I, II	506.4/Procedure I, III
Humidity	507.1/Procedure I, II	507.2/Procedure II, III	507.3/Procedure II, III	507.4
Salt Fog	509.1/Procedure I	509.2/Procedure I	509.3/Procedure I	509.4
Dust	510.1/Procedure I	510.2/Procedure I	510.3/Procedure I	510.4/Procedure I, III
Vibration	514.2/Procedure VIII, X	514.3/Procedure I	514.4/Procedure I	514.5/Procedure I
Shock	516.2/Procedure I, II, III, V	516.3/Procedure I, IV, V	516.4/Procedure I, IV, V	516.5/Procedure I, IV, V
International Protection Standard				
Dust & Water Protection	IP54: Radio itself IP54/55: Remote head with KRK-10			

Listen to the Future

Kenwood has always connected with people through sound. Now we want to expand the world of sound in ways that only Kenwood can, listening to our customers and to the pulse of the coming age as we head toward a future of shared discovery, inspiration and enjoyment.

Kenwood U.S.A. Corporation
Communications Sector Headquarters

3970 Johns Creek Court, Suite 100, Suwanee, GA 30024

Order Administration/Distribution

P.O. BOX 22745, 2201 East Dominguez St., Long Beach, CA 90801-5745

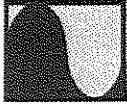
Kenwood Electronics Canada Inc.
Canadian Headquarters and Distribution

6070 Kestrel Road, Mississauga, Ontario, Canada L5T 1S8


www.kenwoodusa.com



ISO9001 Registered
Communications Equipment Division
Kenwood Corporation
ISO9001 certification



Sales Quotation

Electronic Communications of WV. Inc.

Total Communications Sales and Service

DATE AUGUST 13, 2009

408 Old Goff MT. Rd.
Cross Lanes WV, 25313
Phone 304-776-4091 Fax 304-776-7092
Toll Free in WV. (800) 570-4091

TO Division of Juvenile Services

SHIP
TO

SALESPERSON	JOB	SHIPPING METHOD	SHIPPING TERMS	DELIVERY DATE	PAYMENT TERMS	DUE DATE
Dustin Osborne	Repeater	Standard	FOB	15 days ARO	Net 30	Net 30

QTY	ITEM #	DESCRIPTION	LIST PRICE	CONTRACT PRICE	CONTRACT EXTENDED
1	1	NXR851 25W Repeater 450-480		1500.00	1500.00
1	2	Bud Industries MNC-8085 30" Cabinet		410.00	410.00
1	3	EMR Corp Duplexer		425.00	435.00
				SUB TOTAL	2345.00
				TAX	Exempt
				TOTAL	2345.00

KENWOOD

Listen to the Future

NEXEDGE™

NXR-700/800

NEXEDGE™ VHF/UHF Digital & FM Base Units

NXDN™

FleetSync®

GENERAL FEATURES

- 136-154, 146-174 MHz
- 400-430, 450-480, 480-512 MHz
- 5 W Exciter Output
- 40 / 110 / 250 Watt VHF Systems
- 40 / 100 / 250 Watt UHF Systems
- Repeater Operation
- Duplex/Simplex Base Operation
- 30 CH Scanning Base (Conventional)
- Two-Digit LED Display
- LED Status Indicators
- 6 Programmable Function Keys
- 0.3 W Front Panel Speaker
- 3 W External Speaker Audio
- Volume Control
- Microphone Jack
- Program/Modem Interface
- Remote Termination Interface
- Programmable AUX I/O's
- DTMF Front Panel PF Key Control
- DTMF AUX Output Control
- DTMF AUX Input Monitoring
- KPG-109D Windows® FPU
- Flash Firmware Upgrading

DIGITAL – COMMON

- NXDN™ Digital Air Interface
- AMBE+2™ VOCODER
- 6.25 & 12.5 kHz Channels
- UID & GID Validation
- NXR Over-the-Air Alias
- KXK-3 OCXO Option (6.25 kHz operation)

DIGITAL – CONVENTIONAL MODE

- 16 RAN Repeater Controller Built-in
- 1,000 GIDs Per Site
- 1,000 UIDs Per Site
- Mixed FM/Digital Operation
- NXDN™ Scrambler Included

DIGITAL TRUNKING OPTION

- 3,000 GIDs Per Site
- 3,000 UIDs Per Site
- 30 Channels Per Site
- Transmission Trunked Mode
- Message Trunked Mode
- Call Queuing with Priority
- Call Queue Pre-emption
- Late Entry (UID & GID)
- NXDN™ Scrambled Audio Support
- Cross-Busy
- Fail Soft Mode
- NXDN™ Traffic Channel Sharing
- 2MB Call/Activity Memory
- Compact Flash Memory Expansion

MULTI-SITE IP NETWORK OPTION

- 16 Site Trunked IP Network
- 60,000 GIDs Per Network
- 60,000 UIDs per Network
- NEXEDGE™ Trunked Features
- Ethernet Network Interface
- IP LAN/WAN Connectivity
- ESN Validation
- Auto-Roaming / Registration

KPG-110SM SYSTEM MANAGER

- Trunked Sites & IP Network Systems Only
- Windows® 2000/XP/Vista® Compatible
- USB Secure Key Access
- Direct, Dial-Up & IP Connectivity
- Subscriber Privileging
- 127 UID Class Of Service Entries
- 127 GID Class of Service Entries
- 5000 Fleets (UID/GID User Lists)
- Group Call Inter-Site Limits
- Remote Site Programming
- Real-Time Activity Monitoring
- NXR/Network Interface Diagnostics
- Call Logging / Event Download
- Remote System Firmware Updates

FM MODES – GENERAL

- 25 & 12.5 kHz Channels
- Encryption/ANI Board Control

FM CONVENTIONAL MODE

- 16 QT/DQT Repeater Control Built-in
- Hang Timer / Time Out Timer / CW ID
- External FM Controller Interface

FM LTR® TRUNKED MODE

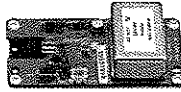
- External LTR® Controller Interface



Kenwood Land Mobile Radio
25 Years

Options

- **KXK-3**
OCXO Unit
(Required for
6.25 kHz operation)



- **KMC-9C**
Desktop Microphone



- **KMC-35**
Microphone



- **KES-5**
External Speaker



Main Specifications

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

		NXR-700	NXR-800
GENERAL			
Frequency Range	K K2 K3	146-174 MHz 136-154 MHz	450-480 MHz 480-512 MHz (RX) / 477-512 MHz (TX) 400-430 MHz
Channel Spacing	Analog Digital	12.5 / 15 / 25 / 30 kHz 6.25 / 12.5 kHz	12.5 / 25 kHz 6.25 / 12.5 kHz
PLL Channel Step		2.5 / 3.125 / 5 / 6.25 kHz	3.125 / 5 / 6.25 kHz
Frequency Stability	With KXK-3 (for 6.25 kHz)		± 1.5 ppm ± 0.5 ppm
Operating Voltage			13.8 V DC ± 15%
Operating Temperature Range			-22° F to +140° F (-30° C to +60° C)
Antenna Impedance			50 Ω
Dimensions (W x H x D)	Projections not included	19.02 x 1.73 x 13.03 in (483 x 44 x 331 mm)	
Weight (net)		11 lb (5 kg)	
FCC ID	K K2 K3	K44371300 K44371301	K44371400 K44371401 (Pending)
IC Certification	K K2 K3	282F-371300 282F-371301	282F-371400 (Pending)
RECEIVER			
Sensitivity	Digital @ 6.25kHz (3% BER) Digital @ 12.5kHz (3% BER) Analog (12 dB SINAD)		0.27 μV 0.33 μV 0.30 μV
Selectivity	Analog @ 25/30 kHz Analog @ 12.5 kHz	93 dB (± 30 kHz) 85 dB (± 12.5 kHz)	87 dB (± 25 kHz) 81 dB (± 12.5 kHz)
FM Hum & Noise	Analog @ 25/30 kHz Analog @ 12.5 kHz		60 dB 55 dB
Intermodulation Distortion			85 dB (± 50 / 100 kHz)
Spurious Response			100 dB
Audio Distortion (Ext. SP)			Less than 2% (at 0.3W)
Audio Output (Ext. SP)			3 W (at 4Ω, less than 5% distortion)
TRANSMITTER			
RF Power Output			5 W to 0.5 W
Spurious & Harmonics			73 dB
FM Hum & Noise	Analog @ 25/30 kHz Analog @ 12.5 kHz		55 dB 50 dB
Audio Distortion			Less than 1% at 1000 Hz
Modulation			16K0F3E, 11K0F3E, 8K30F1E, 8K30F1D, 8K30F7W, 4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D

Analog measurements made per TIA/EIA 603 and specifications shown are typical.
Kenwood reserves the right to change specifications without prior notice or obligation.

FleetSync® is a registered trademark of Kenwood Corporation.
LTR® is a registered trademark of Transcript International.
AMBE+2™ is a trademark of Digital Voice Systems Inc.

Windows® and Windows 2000/XP/Vista® are registered trademarks of Microsoft Corporation.
NXDN® is a trademark of Kenwood Corporation and Icom Inc.
NEXEDGE™ is a trademark of Kenwood Corporation.

Listen to the Future

Kenwood has always connected with people through sound. Now we want to expand the world of sound in ways that only Kenwood can, listening to our customers and to the pulse of the coming age as we head toward a future of shared discovery, inspiration and enjoyment.

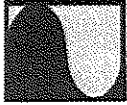
Kenwood U.S.A. Corporation
Communications Sector Headquarters
3970 Johns Creek Court, Suite 100, Suwanee, GA 30024

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 L5T 1S8



ISO9001 Registered
Communications Equipment Division
Kenwood Corporation
ISO9001 certification



Sales Quotation

Electronic Communications of WV. Inc.

Total Communications Sales and Service

DATE AUGUST 13, 2009

408 Old Goff MT. Rd.
Cross Lanes WV, 25313
Phone 304-776-4091 Fax 304-776-7092
Toll Free in WV. (800) 570-4091

TO Division of Juvenile Services

SHIP
TO

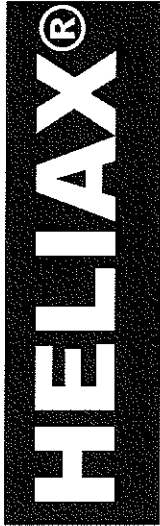
SALESPERSON	JOB	SHIPPING METHOD	SHIPPING TERMS	DELIVERY DATE	PAYMENT TERMS	DUE DATE
Dustin Osborne	Base Station	Standard	FOB	15 days ARO	Net 30	Net 30

QTY	ITEM #	DESCRIPTION	LIST PRICE	CONTRACT PRICE	CONTRACT EXTENDED
1	1	Nx-800 40 Watt Control Station		546.00	546.00
1	2	20 Amp Power Supply		115.00	115.00
1	3	Installation Accessories Included		INC	INC

SUB TOTAL 661.00

TAX Exempt

TOTAL 661.00



Coaxial Cable



PRODUCT SPECIFICATION

LDF4-50A

Standard coaxial cable, 1/2", 50 ohm foam HELIAX (Wideband from 0.5-8800 MHz)

CHARACTERISTICS

Mechanical Specifications

Pressurizable:	No
Weight (lb/ft):	0.15
Weight (kg/m):	0.22
Tensile Strength (lb):	250.00
Tensile Strength (kg):	113.00
Flat Plate Crush Strength (lb/in):	110.00
Flat Plate Crush Strength (kg/mm):	2.00
Minimum Bending Radius (inches):	5.00
Minimum Bend Radius (millimeters):	125.00
Bending Moment (lb-ft):	2.80
Bending Moment (N-m):	3.80
Number of Bends (minimum):	15.00
Number of Bends (typical):	50.00

Electrical Specifications

Cable Impedance (ohms):	50.00
Maximum Frequency (GHz):	8.80
Velocity percentage:	88.00
Peak Power Rating (kW):	40.00
DC Resistance Inner (ohms/1000ft):	0.45
DC Resistance Inner (ohms/1000m):	1.48
DC Resistance Outer (ohms/1000ft):	0.58
DC Resistance Outer (ohms/1000m):	1.90
Cable Test Voltage (VDC):	4000.00
Jacket Spark volts (RMS):	8000.00
Capacitance (pF/ft):	23.10
Capacitance (pF/m):	75.80
Inductance (microH/ft):	0.06
Inductance (microH/m):	0.20
Insulation Resistance (Meg-Ohms):	100000.00

Construction Materials

Dielectric Type:	Low Density Foam Dielectric
Dielectric Material:	Ployethylene Foam
Jacket Color:	Black
Jacket Description:	Polyethylene

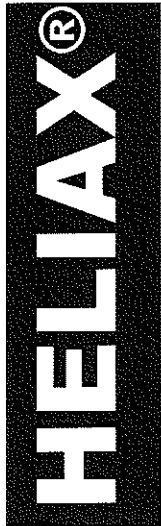
Customer Support Center:

From North America: 1-800-255-1479
International: +1-708-873-2307

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www.andrew.com



Coaxial Cable



PRODUCT SPECIFICATION

LDF4-50A

Standard coaxial cable, 1/2", 50 ohm foam HELIAX (Wideband from 0.5-8800 MHz)

CHARACTERISTICS

Jacket Material:	Polyethylene
Outer Conductor Material:	Corrugated Copper
Inner Conductor Material:	Copper-Clad Aluminum Wire

Dimensions

Diameter Over Jacket (inches):	0.62
Diameter Over Jacket (millimeters):	15.70
Outer Conductor Outside Diameter (inches):	0.55
Outer Conductor Outside Diameter (millimeters):	14.00
Outer Conductor Inside Diameter (inches):	0.53
Outer Conductor Inside Diameter (millimeters):	13.50
Inner Conductor Outside Diameter (inches):	0.19
Inner Conductor Outside Diameter (millimeters):	4.80

General Specifications

Cable Grade:	Standard
NEC Classification Type:	N/A
Nominal Size (inches):	1/2
Short Description:	1/2" 50 ohm HELIAX foam coaxial cable

Available Connectors

Part Number	Connector Type	Special Characteristics	Inner Contact	Grade
124990-1	7/8 EIA Flange	Right Angle	N/A	Standard
209865	F Flange Female	N/A	Solder	Standard
L44F	F Flange Male	N/A	Solder	Standard
L44J	HN Male	N/A	Solder	Standard
L44M	LC Male	N/A	Solder	Standard
L44NT	TNC Female	N/A	Solder	Standard
L44P	UHF Male	N/A	Solder	Standard
L44R	7/8 EIA Flange	N/A	Solder	Standard
L44U	UHF Female	N/A	Solder	Standard
L4PDF	7-16 DIN Female	N/A	Solder	Plated
L4PDF-A	7-16 DIN Female	N/A	Solder	Plated
L4PDF-BH	7-16 DIN Female	Bulkhead	Solder	Plated
L4PDF-PM	7-16 DIN Female	Panel Mount	Solder	Plated
L4PDF-RC	7-16 DIN Female	Ring Flare	Captivated	Plated
L4PDM	7-16 DIN Male	N/A	Solder	Plated
L4PDM-A	7-16 DIN Male	N/A	Solder	Plated

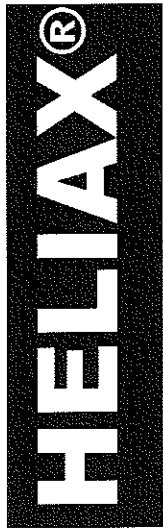
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International: +1-708-873-2307

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Coaxial Cable



PRODUCT SPECIFICATION

LDF4-50A

Standard coaxial cable, 1/2", 50 ohm HELIAX (Wideband from 0.5-8800 MHz)

CHARACTERISTICS

L4PDM-RC	7-16 DIN Male	Ring Flare	Captivated	Plated
L4PDR	7-16 DIN Male	Right Angle	Solder	Plated
L4PDR-C	7-16 DIN Male	Right Angle	Captivated	Plated
L4PNF	N Female	N/A	Solder	Plated
L4PNF-A	N Female	N/A	Solder	Plated
L4PNF-BH	N Female	Bulkhead	Solder	Plated
L4PNF-PM	N Female	Panel Mount	Solder	Plated
L4PNF-RC	N Female	Ring Flare	Captivated	Plated
L4PNM-H	N Male	Hex Head	Solder	Plated
L4PNM-HA	N Male	Hex Head	Solder	Plated
L4PNM-RC	N Male	Ring Flare	Captivated	Plated
L4PNR-H	N Male	Right Angle	Solder	Plated
L4PNR-HC	N Male	Right Angle	Captivated	Plated

Attenuation and Average Power Ratings

Frequency (MHz)	Attenuation (dB/100ft)	Attenuation (dB/100m)	Average Power (kW)
0.5	0.045	0.149	40.00
1	0.064	0.211	36.11
1.5	0.079	0.259	29.46
2	0.091	0.299	25.50
10	0.205	0.672	11.35
20	0.291	0.954	7.99
30	0.357	1.172	6.51
50	0.463	1.520	5.02
88	0.619	2.031	3.76
100	0.661	2.168	3.52
108	0.688	2.256	3.38
150	0.815	2.673	2.85
174	0.880	2.887	2.64
200	0.946	3.103	2.46
300	1.169	3.835	1.99
400	1.360	4.462	1.71
450	1.447	4.748	1.61
500	1.530	5.021	1.52
512	1.550	5.085	1.50
600	1.686	5.533	1.38
700	1.831	6.009	1.27

Customer Support Center:

From North America: 1-800-255-1479
International: +1-708-873-2307

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HELIX[®]

Coaxial Cable



PRODUCT SPECIFICATION

LDF4-50A

Standard coaxial cable, 1/2", 50 ohm foam HELIX (Wideband from 0.5-8800 MHz)

CHARACTERISTICS

Attenuation and Average Power Ratings

Frequency (MHz)	Attenuation (dB/100ft)	Attenuation (dB/100m)	Average Power (kW)
800	1.968	6.456	1.18
824	1.999	6.559	1.16
860	2.046	6.712	1.14
894	2.089	6.855	1.11
960	2.171	7.124	1.07
1000	2.220	7.283	1.05
1250	2.507	8.225	0.93
1500	2.771	9.092	0.84
1640	2.911	9.551	0.80
1700	2.970	9.743	0.78
1800	3.066	10.057	0.76
2000	3.251	10.666	0.72
2100	3.341	10.960	0.70
2200	3.429	11.250	0.68
2300	3.516	11.534	0.66
2500	3.685	12.089	0.63
2700	3.849	12.627	0.60
3000	4.086	13.406	0.57
3300	4.315	14.156	0.54
3400	4.389	14.400	0.53
4000	4.820	15.814	0.48
4900	5.425	17.797	0.43
5000	5.489	18.009	0.42
5200	5.617	18.429	0.41
5300	5.680	18.636	0.41
5600	5.868	19.251	0.40
6000	6.113	20.054	0.38
6100	6.173	20.252	0.38
6600	6.469	21.224	0.36
8000	7.262	23.824	0.32
8800	7.694	25.243	0.30

Customer Support Center:

From North America: 1-800-255-1479
International: +1-708-873-2307

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HELIAX®

Coaxial Cable

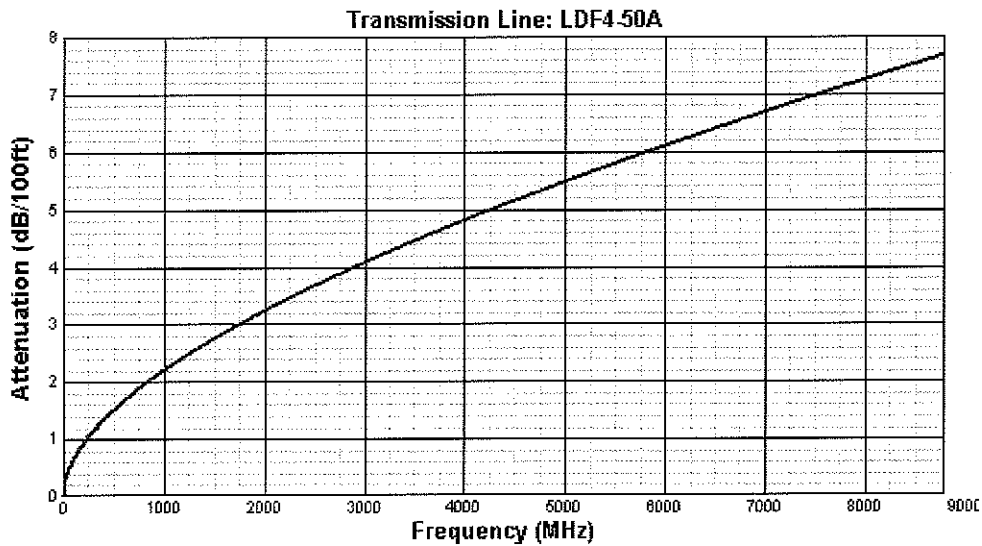


PRODUCT SPECIFICATION

LDF4-50A

Standard coaxial cable, 1/2", 50 ohm foam HELIAX (Wideband from 0.5-8800 MHz)

CHARACTERISTICS



Standard Conditions:

For Attenuation. VSWR 1.0, ambient temperature 20°C (68°F).

For Average Power. VSWR 1.0, ambient temperature 40°C (104°F), inner conductor temperature 100°C (212°F); no solar loading.

Customer Support Center:

From North America: 1-800-255-1479
International: +1-708-873-2307

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Laird Technologies
 Web site: www.LairdTech.com

All Categories > Antennas & Reception Solutions > Base Station & Backhaul Antennas > Dispatch Base Station Antennas > UHF Fiberglass Omnidirectional Antenna > Item # FRX450

Item # FRX450 UHF Fiberglass Omnidirectional Antenna

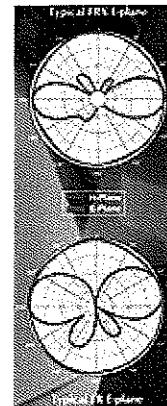
UHF Fiberglass Omnidirectional Antenna

FR Series Fiberglass Omnis

Cushcraft's UHF fiberglass series is best suited to base station and talkaround applications. The versatility in frequency and gain selection combined with a highly reliable solid brass radiator provide exceptional value for superior RF performance. The quality design of the integrated pigtail and N-female connector are excellent weather-proofing features. Mounting hardware is included facilitating installation.



[larger image](#)



[larger image](#)

Specifications

Manufacturer	Cushcraft Corporation
Band	UHF
Series	FR
Frequency	450 to 470 MHz
Gain	5 dBi
Bandwidth	20 MHz
3dB Beamwidth, E Plane	24 °
Height	42.25 in 114.94 cm

Weight	1.14 lbs 0.51 kg
Wind Surface Area	0.212 m ² 0.020 ft ²
VSWR	1.5:1
Polarization	Vertical
Impedance	50 ohms
Pigtail	12 in (30.5 cm) UltraLink
RF Connector	N (Female)
Wind Survival	125 mph 200 kph
Enclosure Material	Fiberglass
Power	150 watts
Mounting Style	Tube end

[Print](#)[Back](#)

Laird Technologies
Web site: www.LairdTech.com

All Categories > Antennas & Reception Solutions > Base Station & Backhaul Antennas > Dispatch Base Station Antennas > Fiberglass Omnidirectional Wireless Antennas > Item # FG4500

Item # FG4500 Fiberglass Omnidirectional Wireless Antennas



[larger image](#)

- Includes VHF through 2.4 GHz models
- High performance and reliable collinear J-pole design surrounded by durable high density fiberglass
- Durable gold anodized sleeve and cap will not oxidize
- Custom tuning available
- FedEx/UPS shippable on most models

Specifications

Model	UHF Models
Frequency Range	450 - 470 MHz
Tuned Frequency	460 MHz
Gain	Unity
Length	26 inches
Max. Power	100 watts
Options	4 Inch Wall Mount 9 Inch Standoff (2) Fiberglass Mounting Bracket (2) Stainless Steel U-Bolt Mount (2)

[Print](#) [Back](#)



Sales Quotation

Electronic Communications of WV. Inc.

Total Communications Sales and Service

DATE AUGUST 13, 2009

408 Old Goff MT. Rd.
Cross Lanes WV, 25313
Phone 304-776-4091 Fax 304-776-7092
Toll Free in WV. (800) 570-4091

TO Division of Juvenile Service

SHIP
TO

SALESPERSON	JOB	SHIPPING METHOD	SHIPPING TERMS	DELIVERY DATE	PAYMENT TERMS	DUE DATE
Dustin Osborne	Radio Extras	Standard	FOB	15 days ARO	Net 30	Net 30

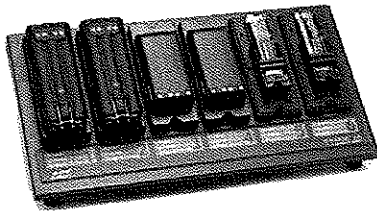
QTY	ITEM #	DESCRIPTION	LIST PRICE	CONTRACT PRICE	CONTRACT EXTENDED
50	1	KHS-12BL 3 Wire Mini Lapel Mic		111.00	5500.00
35	2	Kenwood KMC-41M Speaker Microphone		58.00	2030.00
9	3	Multi Unit Charger KSC-326K		378.00	3402.00
3	4	Multi Unit Charger ACT i60 6 unit charger with iGauge Add on Display		760.00	2280.00
12	5	KNB-48L High Capacity Lithium Ion Battery		73.50	882.00
12	6	Replacement Belt Clip KBH-11		9.50	114.00
6	7	UHF Stubby Antenna KRA-23M		10.00	60.00
6	8	UHF Whip Antenna KRA-27M		10.00	60.00
6	9	Leather Carry Case KLH-148K		31.00	186.00
35	10	Swivel Belt Loop KBH-8DS		16.00	560.00

SUB TOTAL

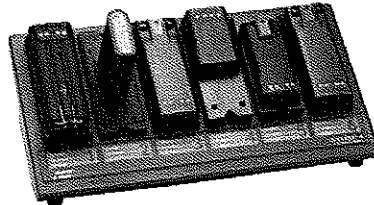
TAX

TOTAL

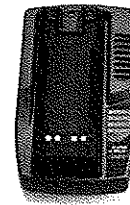
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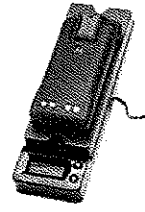
**ACT i65
Maintainer**



**ACT i60
Six-Bay Charger**



**ACT i10
Single Charger**



**ACT
iGAUGE**

iCHARGE™ Technical Overview

Battery Range: Charges 4-10 Cell NiCD & NiMH, 1-63 cell Li-Ion batteries

Charging Technology: Patented Enrev™ technology

U.S. Patents: 4,829, 225, 5,307,000; 5,694,023; other patents pending

Max Charge Current: 2.4 Amps per bay

Termination Method: Proprietary Delta-Y; -Delta Voltage; Timer back-up

Voltage Resolution: 10-20 mV per bit

Control Circuit: Proprietary ACT design

Operating Temperature Range: 10° to 45° C

Maximum Temperature: 48°C

Input Voltage: Unswitched 120/240 VAC, +6/-10%, 50/60 Hz. Removable power cord, user replaceable fuse (i60)

Input Current: requires 1.8A max @ 120vac

Input Power: 220W total system dissipation maximum (all 6 bays loaded @ 6cell NiCD), 751 BTU/hr.

Charging Power: 20W per bay delivered to battery nominal

Discharging Power: 3W per bay maximum

Efficiency: 80%

Accuracy: 30mv battery voltage reading resolution per bay

Discharging Voltage: <=1V per cell

Housing Material: ABS injection molded plastic (i10); Aluminum (i60, i65)

Display: Easy to use Charge (yellow), Complete (green), and Fault (red) LEDs.

Adapter Mount: Simple "blind" plug-in using shrouded guide connector system. Secured with two matching screws.

Adapter Compatibility: Adapter socket to accommodate all listed batteries and capacity gauge (iGAUGE) at all bays

Color: Blue

Dimensions: approximate 8 x 5 x 2" (i10); 18 x 9 x 6.5" (i60, i65)

Weight: 1 lb. (i10); 11.8 lbs. (i60, i65)

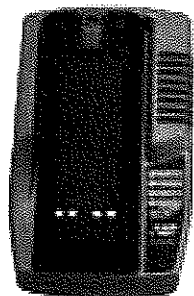
Fan: 80 mm, 29 dba @ 39 cfm (i60, i65). Fan operates only when actively charging any or all bays.

Throughput: Typical: NiCD < 1 hour/bay; NiMH < 1.5 hours / bay; Li-Ion < 2 hours/bay

Approvals: UL, CE

ESD susceptibility: Meets and exceeds EN6100-4-4 a tall user entry points.

Advanced Charger Technology (ACT), the leader in battery charging technology, provides iCHARGE™, the most intelligent battery charging solution on the market today. iCHARGE battery chargers provide the fastest available charger, user-friendly interface, and battery conditioning during every charge. This allows the land mobile radio user to enjoy extended battery life and more reliable battery charging. iCHARGE battery chargers are the only two-way radio battery chargers featuring the superior benefits of the patented Dynamic ElectroWaveform (DEW™) technology. DEW technology utilizes real-time feedback to implement an interactive, intelligent charging waveform that responds dynamically to the unique condition of each battery during the charging process.



Model i10

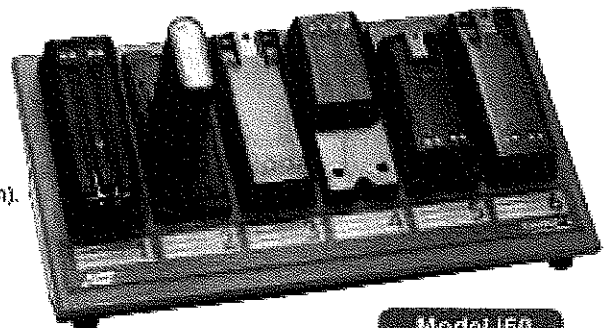


Model i15

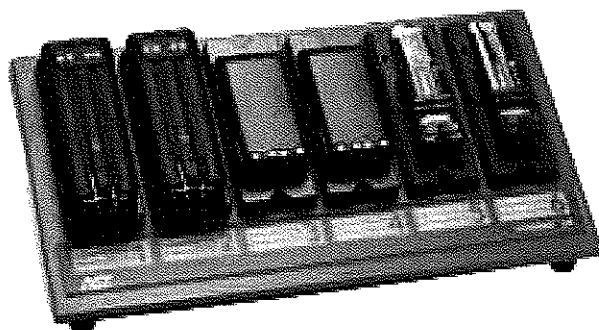
- Tri-chemistry (NiCD, NiMH, Lithium)
- Provides fastest conditioning charge available
- Extends battery life with no memory effect
- Powered by patented DEW™ Technology
- Microprocessor controlled with real-time intelligent charging to meet the unique needs of each battery.
- Simplicity of use, with no complicated charging rules
- Precise termination at full charge, unlike other chargers that charge to 80% and then revert to trickle charging.
- User-friendly interface. Green light = Battery Ready

iCHARGE™ Technical Data:

Charging Method: Patented DEW technology
 US Charging Technology Patents: 4,829,225; 5,307,000; 5,694,023.
 Max Charge Current: 2.4 Amps
 Max Depolarization: 12 Amps
 Battery Range: Chargers 4-10 cell NiCD & NiMH, 1.3 cell Li-ion battery chemistries
 Charge Time: Varies 15-45 minutes (NiCD), 15-60 minutes (NiMH), 60-75 minutes (Li-ion).
 Approvals: UL, CE
 Input Power: 120/240VAC, 60 Hz
 Dimensions: 7 x 5.5 x 2" (Models i10/i15), 18 x 9 x 6.5 (Models i60/i65).
 Unit weight: 3 lbs (Models i10 / i15), 12 lbs (Models i60 / i65).
 Boxed Weight: 4 lbs (Models i10 / i15), 17 lbs (Models i60 / i65)



Model i60

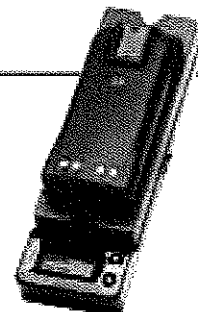


Model i65

With the iCHARGE i65™ Maintainer, batteries receive a complete conditioning charge and can be stored on the charger indefinitely. After charging completely, batteries left on the unit are individually discharged and recharged, one at a time every two weeks. Each battery is fully exercised and conditioned; keeping the batteries in an optimal state and ready at a moment's notice. These features make this unit the perfect charger for any First Response Team.

iGAUGE

The perfect complement to your iCHARGE fleet, the iGAUGE is an intelligent capacity display unit that fits beneath your six-bay iCHARGE adapter. The iGAUGE features a user-friendly LCD, a CAPACITY CHECK mode that will cycle the battery once, charge complete, and provide a readout in mAh on the battery's capacity. The iGAUGE also offers a REACTIVATE mode that automatically deep conditions the battery three cycles to restore lost capacity.



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