KANAWHA COUNTY COMMISSION

P.O. Box 3627
Charleston, WV 25336
(304) 357-0115

Request for Quotations

Re: Thermal Imaging Cameras for Kanawha County Fire Departments.

Date: February 12, 2013

Bid Opening: **Bids must be received on or before Monday, February 25, 2013, at 11:45 a.m. in the Kanawha County Commission Purchasing Department located at 407 Virginia Street, East, Third Floor, Room 229, Charleston, WV 25301**

INSTRUCTIONS TO BIDDERS:

***PLEASE USE THIS COVER SHEET FOR YOUR BID**

1. **Bids must be received in a sealed envelope with the date and time of the bid opening on the outside of the envelope. Faxed bids will not be accepted.**
2. Bid must be F.O.B. Delivery Point, unless otherwise indicated in proposal.
3. All bids should be signed and in ink, showing all facts and the total amount of the bid.
4. The Kanawha County Commission reserves the right to accept or reject, in part or in whole any bid submitted, whichever is in the best interest of the Kanawha County Commission.

Item No.	Description	Bid Amount
1	Thermal Imaging Cameras for Kanawha County Fire Departments per the attached specifications	$_____ Each

Vendor Name: _____ Signature: _____
Address: _____ Date: _____
_____ Telephone: _____
E-Mail Address: _____

SPECIFICATIONS

KANAWHA COUNTY COMMISSION
CHARLESTON, WEST VIRGINIA

ITEM: Thermal Imaging Cameras for Kanawha County Fire Departments

LOCATION: Various Fire Departments Located Throughout Kanawha County

CONTACT:

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C.W. Sigman
Fire Coordinator
Kanawha County Commission
P.O. Box 3627
Charleston, WV 25336
304-357-0101

BID OPENING: **Bids must be received in a sealed envelope, with the date and time of the bid opening on the outside of the envelope, on or before Monday, February 25, 2013, at 11:45 a.m., at the Kanawha County Commission Purchasing Department, 407 Virginia Street, East, Third Floor, Room 229, Charleston, WV 25301 (P.O. Box 3627, Charleston, WV 25336).** ***Faxed bids will not be accepted.***

SPECIFICATIONS: The following specifications are intended to describe a thermal imaging cameras for Kanawha County Fire Departments and the details contained in these specifications are not designed to exclude any vendor from bidding, but are offered as a means of describing the needs of the fire departments. Where brand names may be used, the words "or equal" are assumed to follow. All specifications are minimum requirements.

THERMAL IMAGING CAMERA SPECIFICATIONS

Intent of Specifications:

This specification covers a commercially produced Thermal Imaging Camera and its associated hardware and software. The Thermal Imaging Camera system (Camera) delivered to these specifications shall be a standard commercial product that meets the requirements of these specifications. **Exceptions to any of the line items are not acceptable.** Materials used in construction of the Thermal Imaging Camera system shall be new, unused, and not less than the quality conforming to modern engineering and manufacturing practices. Materials shall be free of defects and suitable for the service intended.

Specific Line Item Requirements:

Vendors must indicate compliance with these specifications on a line item basis by placing a check mark in the yes/no column corresponding to each line item. Bidders must furnish descriptive literature and complete manufacturer specifications with the submission of this documentation.

Quality Assurance:

The company manufacturing the Thermal Imaging Camera in response to this bid must furnish proof of current certification to the ISO9001-2008 quality standard.

Compliance Guarantee:

Vendors answering this bid must guarantee that equipment tendered comply with all parts of this specification.

The purchasing entity reserves the right to require the bidder to submit a sample of the equipment being tendered to the purchasing entity for validation and verification that all items claimed to be in compliance are in fact true and correct. If a bidder is requested to supply a sample of the equipment being tendered for testing, the equipment shall be supplied to, and received by, the purchasing entity within one week of notice. Inability to meet the timeline provided herein shall disqualify the bidder.

Components and Accessories Included with each Camera:

For each Camera provided, the following items shall be included at no extra charge: 1 Retractable Lanyard, 2 rechargeable Lithium-ion batteries, 1 user manual, 1 hard Pelican brand or equivalent quality carrying case, 1 desktop charger and A/C power supply.

Training:

An instructor shall be provided for in House and "Live Fire" training at a certified training center.

Contract Terms:

Successful bidder must be willing to uphold the bid price for a period of twelve (12) months from the date of the bid opening. Successful bidder must also be willing to extend the bid amount to each of the thirty-two (32) volunteer and municipal fire departments located in Kanawha County, West Virginia.

	COMPLIANCE	
	YES	NO
Warranty: a) The Camera shall be warranted by the manufacturer to be free of defects for a period of **two** years from the date of delivery.		
b) The manufacturer shall provide 48-hour turn-around time on warranty service work to the equipment in such a manner to return the Camera to the purchasing entity, in normal usable condition, within 72 hours, or to provide for the use of comparable equipment on loan until such time that the Camera is returned to the purchasing entity.		
c) The Camera shall be eligible for extended warranties, up to three years of coverage in total. Extended warranty contracts for the Camera shall be provided by the Camera's manufacturer. The warranty contract shall be eligible for purchase either at the time of original Camera purchase, or in one-year intervals after the initial purchase of the Camera.		
Physical and Performance Specifications: 1. The Camera shall be capable of sensing, imaging, and displaying infrared radiation in the 8 to 14 micron spectral wavelengths and shall have been designed specifically for use within a firefighting environment.		
2. The Camera shall be hand-held and portable allowing it to be passed from one firefighter to another within a firefighting environment without removing any articles of personal protective equipment.		
3. In typical ambient temperature environments, when the Camera's on/off switch is activated to apply power to the Camera, the Camera shall render a usable thermal image in ten seconds or less.		
4. The Camera shall be equipped with an infrared imaging sensor consisting of no less than 110,592 imaging pixels.		
5. To facilitate imaging in extreme firefighting environments, the Camera shall have multiple operating sensitivities and shall be capable of providing clear distortion and saturation free images of scenes that include temperatures in excess of 2000°F degrees.		
6. The Camera shall be equipped with a Germanium Window protecting the optical lens. The window shall incorporate anti-reflective and hard carbon coating to minimize damage during operation.		
7. To facilitate high quality image representation, the Camera shall refresh the imaging sensor no less than 46 times per second.		
8. To ensure low cost of ownership, the Camera's infrared imaging engine technology shall be specifically designed for firefighting and shall be designed, developed, and manufactured by the same company who		

	COMPLIANCE	
	YES	NO
manufactures the finished Camera product.		
9. The Camera shall incorporate a hotspot tracking system that identifies and tracks the hottest object in the field of view and displays the temperature of the hottest object via an on-screen digital readout. Users shall have the option of turning the hotspot tracker on and off.		
10. The Camera shall incorporate screen layout, annotation and warnings as specified in NFPA 1801-2013.		
11. The Camera shall be resistant to vibration as specified in NFPA 1801-2013 Section 8, Vibration Test.		
12. The internal video signal shall be displayed on backlit 3½ inch LCD with an aspect ratio of 4:3 consistent with the Camera's sensor. The LCD display shall be capable of reproducing all of the sensor's pixels by incorporating a resolution of no less than 384X288 pixels.		
13. To ensure the waterproofing integrity of the Camera in all situations, the Camera shall be designed to isolate the internal electronic systems from all user accessible areas. The Camera shall conform to the IP67 standard, the ability to withstand short-term immersion in water to a depth of three feet.		
14. The Camera shall have the ability to withstand flame as specified in Section 8, Heat and Flame Test, NFPA 1801-2013.		
15. The Camera's dimensions shall be no more than 4.75 X 8.5 X 6 inches.		
16. The Camera, including battery, shall weigh no more than 3.0 pounds with the battery installed.		
17. The Camera shall be tested for resistance to impact as specified in NFPA 1801-2013, Impact-Acceleration Resistance Test.		
18. The Camera's "pistol grip style" handle shall be removable. The handle shall be easily attached and detached from the Camera's main housing without the use of tools to facilitate quick removal and attachment at a fire scene. The handle shall incorporate laser pointer technology.		
19. The Camera's optional side straps shall be removable. The side straps shall be constructed of Kevlar and adjustable to fit a gloved hand.		

	COMPLIANCE	
	YES	NO
20. The Camera shall have the ability to be upgradeable to incorporate the capability of saving video and still thermal images to on-board memory for download to a personal computer using a standard USB interface. When coupled to a personal computer using a USB interface, the computer shall recognize the Camera as an external memory source similar to an external disk drive. The video or image recording shall be activated and deactivated at will by the user without necessitating connection to a personal computer.		
21. The Camera shall incorporate through-the-lens direct temperature measurement capability that measures and displays relative surface temperature. The direct temperature measurement readings shall be displayed in numerical form in the lower right hand corner of the internal display device.		
22. The direct temperature measurement capability incorporated into the Camera shall be capable of measuring temperatures in excess of 2,000°F.		
23. The Camera shall be capable of viewing thermal images in bright sunlight and shall NOT incorporate LCD variable brightness. The camera shall not be equipped with an LCD display auto-dim/bright sensor. The camera shall display the 2x, 4x digital zoom.		
24. The Camera shall be tested for resistance to heat as specified in the Heat Resistance Test, NFPA 1801-2013, and shall withstand a minimum of 500F for 5 minutes.		
25. The Camera shall be tested for durability as specified in NFPA 1801-2013, Durability Test and withstand multiple 6 foot drops from multiple angles.		

	COMPLIANCE	
	YES	NO
26. The camera's truck mounted charging system shall be constructed on a 3/16 inch thick aluminum frame. The body of the truck charger system shall be made of thermoplastic with a ¼ inch nominal thickness. The truck charger shall be the following dimensions: 12 X 8 X 6 inches.		
27. The Camera shall be optionally equipped with wireless video transmitter that transmits in the 2.4 GHz band.		
28. Purchasers of the Camera shall have the option of enrolling in a "battery for life" program to enable the purchaser a means to obtain refurbished and/or new batteries in replacement of defective batteries without incurring the cost purchasing new batteries.		
29. The Camera shall be equipped with a truck mounted charging system capable of concurrently charging a battery installed in the Camera, and an additional spare battery installed in the truck charging system.		
30. The Camera's truck mounted charging system shall conform to the NFPA 1901, 2009 vibration & rollover requirements when mounted in vertical or horizontal position.		
31. The Camera's truck mounted charging system shall be equipped with an in-line circuit breaker mechanism to protect against power surges and cross polarity. The truck mounted charging system shall operate on 12V DC.		

TERMS & CONDITIONS:

Real Estate and Personal Property Taxes: "No bid will be accepted or opened on any County contract if the vendor is listed on the last published list of delinquent real or personal property taxes in Kanawha County; however, the Commission will accept bids by vendors who provide satisfactory proof of payment of current taxes or a certification from the Sheriff that no taxes are due prior to submission of said bid."

Required Forms: Vendor shall complete and submit, or have on file with the County, a Vendor Registration and Disclosure Statement Form.

Once bids are unsealed, all bid documents become Public Record. The Kanawha County Commission reserves the right to reject any and/or all bids and to waive any informality in bidding.