

# Barrow County Board of Commissioners

30 North Broad Street Winder Georgia 30680 Phone: (770) 867-1977 Fax: (770) 307-3141

Cindy F. Clack  
Purchasing Agent



## MEMORANDUM

**To:** Parties Interested In RFB2015-1

**From:** Cindy Clack

**Date:** 10/8/2014

**Re:** RFB2015-1 – Thermal Cameras

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RFB2015-1 is attached for your consideration. Anyone accessing this Request for Bid from the Barrow County web site is responsible to insure the latest documents are in their possession including any addenda. All addenda, questions and answers will be posted on this site. ***This site should be visited frequently to insure an awareness of any updates.***

Additional comments relating to RFB2015-1:

- ***Any specification in this RFB that appears to restrict competition should be brought to the attention of the Purchasing Agent at [cclack@barrowga.org](mailto:cclack@barrowga.org) immediately for review.***

Please insure bids are submitted exactly as specified in the RFB. If you have any questions, please submit them in writing to the Barrow County Purchasing Agent as called for in the RFB.

Thank you.



**Barrow County Board of Commissioners  
30 North Broad Street  
Winder, GA 30680**

**REQUEST FOR BID  
RFB2015-1**

**THERMAL IMAGING CAMERAS  
PER SPECIFICATIONS**

**BARROW COUNTY, GEORGIA**

**OCTOBER 8, 2014**

**REQUEST FOR BID**

**RFB2015-1**

**BARROW COUNTY, GEORGIA**

Date: October 8, 2014

PURPOSE:

The purpose of this request is to provide interested suppliers with the sufficient information to enable them to submit a uniform bid for the County's review. Also, to set-forth a systematic method that will be fair and impartial to all parties concerned and to generate a response that can be equally evaluated by the County.

GENERAL:

Barrow County is in the process of securing sealed bids for sixteen (16) Thermal Imaging Cameras per attached specifications for the Barrow County Fire and Emergency Services. Special attention should be given to the technical schedule and conditions below.

Regular Bid: Each supplier must comply with all requirements for a regular bid as directed or required by this notice. Notice is hereby given to all suppliers that if their bids are defective or irregular, the same may be rejected immediately.

Uniform Bid: To facilitate comparative analysis and evaluation of quotations, it is desired that a uniform format be employed in structuring each bid. The required format will coincide with specifications given later in this notice. The supplier's degree of compliance with the requirements of this notice will be a factor in the subsequent evaluation and award of contract for these items. All instructions are to be considered an integral part of the RFB.

Right to Reject Any or All Bids: Barrow County reserves the right to reject any or all bids, to waive technicalities or informalities, and to accept any bid deemed in the best interest of the county. Where two or more suppliers are deemed equal, the County reserves the right to make the award to one of the suppliers.

Firm Price: Prices quoted by supplier shall be firm prices, and not subject to increase during the schedule hereinafter set-forth and shall not include Federal or State Tax.

Right to Submitted Materials: All responses, inquires, or correspondence relating or in reference to this schedule, exhibit, and other documentation by the supplier shall be properly identified as to supplier and will become the property of the County when received. Supporting technical manuals will be returned at the request of the supplier. Selection of a suppliers bid does not affect this right.

**INQUIRIES:** Bidders **shall not** contact any members, or employees, of the Barrow County Board of Commissioners or any Barrow County Elected Officer or employee of Barrow County Elected Officer, regarding this RFB, bid evaluation, or selection process from the time the RFB is issued until the time a notification of intent to award is announced. **Questions relating to this RFB must be submitted in writing to: Cindy Clack, Purchasing Agent (email: [cclack@barrowga.org](mailto:cclack@barrowga.org)).** The deadline for submission of questions relating to this RFB shall be 5:00 p.m., Thursday, October 16, 2014. All questions submitted in writing prior to the deadline will be compiled, answered in writing and posted to the website [www.barrowga.org](http://www.barrowga.org) as an addendum to the RFB.

**SEALED QUOTATIONS:** An original (un-bound) and four copies of the bid must be submitted in a sealed envelope, addressed to Owner. Each sealed envelope containing a bid must be plainly marked on the outside with **“RFB2015-1 – Thermal Imaging Cameras”**. If a bid is forwarded by mail, the sealed envelope containing the bid must be enclosed in another envelope to the attention of the Owner at the address previously given and also plainly marked with **“RFB2015-1 – Thermal Imaging Cameras”**. The county will not be responsible for late mail deliveries and no bid will be accepted if received after the time stipulated by this RFB. No bid may be withdrawn or modified in any way after the deadline for RFB opening. **FAILURE TO COMPLY WITH THE ABOVE INSTRUCTIONS WILL DISQUALIFY BID QUOTE.**

**PROPOSALS SHALL BE SUBMITTED TO:**  
**Barrow County Board of Commissioners**  
**Clerk’s Office**  
**30 North Broad Street**  
**Winder, GA 30680**

**EVENTS:** Sealed bids will be accepted in the Clerk’s Office, no later than **12:00 Noon, Thursday, October 23, 2014.** Bids will be opened and read aloud in the Main Floor Conference Room at 30 North Broad Street, Winder, GA 30680 at 2:00 p.m. on October 23, 2014. All bids will be evaluated and the project will be awarded, if it is awarded, within 60 days of the bid opening. These prices will be good for 60 days from this date.

**The following dates and times apply to this RFB:**

Issue Request for Bid -----October 8, 2014  
Deadline for Questions -----October 16, 2014 (5:00 p.m.)  
Bid Due Date -----October 23, 2014 (12:00 p.m.)  
Bid Opening -----October 23, 2014 (2:00 p.m.)

**DOCUMENTS:** The following documents are included in this Request for Bid:

- Memo (1 Page)
- Request for Bid (4 Pages)
- Specifications (6 Pages)
- Bid Form (1 Page)

**BID CONTENT:** Please include the following documents with your submittal (*an original unbound and four copies*):

- Bid Form (included in the RFB)
- Specification Requirement (Yes/No) Document (included in the RFB)
- Manufacturer Specifications
- Descriptive Literature

**DELIVERY TIME:** *Please advise number of days from the date of order in which delivery can be expected.*

**TECHNICAL REQUIREMENTS:** The technical requirements are normally given as generic in nature, where a company's part is listed, no exceptions or substitutions will be accepted, unless stated otherwise in the RFB.

**PAYMENT:** Payment will be made Net 30 Days from date of receipt of equipment. No monies will be paid up front with the order. Bidder agrees to render invoice electronically ([payables@barrowga.org](mailto:payables@barrowga.org)). Bidder agrees to accept the Barrow County Purchase Order Form to execute the actual purchase of equipment; no other contract document will be generated for the purchase.



## Barrow County Emergency Services

### 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 Lanyard, 2 rechargeable batteries, 1 user manual, 1 charger and A/C power supply.

	COMPLIANCE	
	YES	NO
<b><u>Warranty:</u></b>		
a) The Camera shall be warranted by the manufacturer to be free of defects for a period of one year 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.		
<b><u>Physical and Performance Specifications:</u></b>		
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.		

	COMPLIANCE	
	YES	NO
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 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 a cold spot tracking system that identifies and tracks cold objects (down to -40°C) in the field of view and displays the temperature of the coldest object via an on-screen digital readout.		
11. The camera shall be capable of incorporating a freeze frame system which allows the user freeze the image on the display for a tactical analysis. The freeze frame system shall operate on a separate non-momentary button. The image freeze system shall be capable of working in conjunction with the hot or cold spot tracking system when the image is paused.		
12. The Camera shall incorporate screen layout, annotation and warnings as specified in NFPA 1801-2013.		
13. The Camera shall be resistant to vibration as specified in NFPA 1801-2013 Section 8, Vibration Test.		
14. 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.		
15. 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.		
16. The Camera shall have the ability to withstand flame as specified in Section 8, Heat and Flame Test, NFPA 1801-2013.		

	COMPLIANCE	
	YES	NO
17. The Camera's dimensions shall be no more than 8 X 4.5 X 5 inches.		
18. The Camera, including battery, shall weigh no more than 2.2 pounds with the battery installed and have a total volume of no more than 128 cubic inches.		
19. The Camera shall be tested for resistance to impact as specified in NFPA 1801-2013, Impact-Acceleration Resistance Test.		
20. To eliminate confusion the Camera shall not incorporate a "sleep" mode that turns-off the Camera's internal LCD display while the Camera is "on".		
21. The battery level indicator shall also incorporate a low battery warning that, when used with a wireless transmission device, transmits the battery level information and low battery warning information to the receiver located remotely from the Camera.		
22. The Camera's rechargeable batteries shall be of lithium ion technology and shall be capable of operating the Camera (with the Camera's internal LCD display device ON) for a minimum of 3 hours.		
23. The Camera viewing surface, not including the optical lens, shall be tested for abrasion resistance as specified in NFPA 1801-2013 Viewing Surface Abrasion Test, and shall not have the viewing surface exhibit an average delta haze greater than 14 percent.		

	COMPLIANCE	
	YES	NO
24. 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.		
25. 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.		
26. The direct temperature measurement capability incorporated into the Camera shall be capable of measuring temperatures in excess of 2,000°F.		
27. The Camera shall be equipped with a detachable lanyard mounting system allowing the camera to be transferred from person to person without removing the lanyard from the firefighter gear it is attached to.		
28. The Camera shall be equipped with a dual action locking mechanism to secure the battery in the Camera.		
29. The Camera shall be equipped with a built in laser pointer powered by the supply voltage from the Camera's battery.		
30. The Camera shall be equipped with an illuminating ON/OFF button indicating when the Camera is powered ON.		
31. 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.		
32. 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.		
33. 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
34. The Camera shall optionally 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. The truck charging system can also be used as a desktop station charger without the need of any additional power converters.		
35. The Camera's truck mounted charging system shall conform to the NFPA 1901, 2009 vibration & rollover requirements when mounted in vertical or horizontal position.		
36. The Camera's truck mounted charging system shall be equipped with a field replaceable strap to secure the Camera into the charging system.		
37. The Camera's truck mounted charging system shall be equipped with an in-line fuse to protect against power surges and cross polarity. The truck mounted charging system shall operate on 12V DC or 110V AC.		
38. The camera's truck mounted charging system shall be constructed on a 1/2 inch thick frame. The body of the truck charger system shall be made of thermoplastic with a 1/4 inch nominal thickness. The truck charger shall be the following dimensions: 8.5 X 8 X 5 inches.		
39. The Camera's truck mounted charging system shall have the option of a drive away detection system to prevent the user from leaving the camera behind. The system shall be powered from the charging system and contain a reset button to override the system when not in use.		
40. 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.		

**BID FORM**  
**(SUBMIT ONE ORIGINAL (UN-BOUND) AND FOUR COPIES)**

PROJECT: RFB2015-1 – Thermal Imaging Cameras per Specifications

SUBMITTED TO: Barrow County Board of Commissioners

SUBMITTED BY (NAME, ADDRESS AND TELEPHONE NUMBER OF COMPANY):

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Barrow County Board of Commissioners:

Having carefully examined the Request for Bid and Related Documents for RFB2015-1, and Addendum(s) \_\_\_\_\_, the undersigned proposes to furnish the following Per Specifications for the following amounts:

Equipment	Pricing	Lead Time in Calendar Days	Warranty Period*
Sixteen (16) Thermal Imaging Cameras Per Attached Specifications	\$ _____ Each	_____ Days	_____
1 Lot Shipping & Handling (If Any)	\$ _____ Lot		
<b>GRAND TOTAL – 16 CAMERAS</b>	\$ _____		

Bidder agrees to accept the Barrow County Purchase Order Form to execute the actual purchase of the equipment; no other contract document is required for the purchase. No monies will be paid up front; payment will be made Net 30 days from receipt of material.

Signed, sealed, and dated this \_\_\_\_\_ Day of \_\_\_\_\_, 2014.

Bidder: \_\_\_\_\_(Seal)  
 (Company Name)

By: \_\_\_\_\_

Title: \_\_\_\_\_

\*Attach warranty statement.