

CITY OF DERBY

REQUEST FOR BIDS

Bid # 2016-016

Sealed bid for one **(1) Thermal Imaging Camera** will be received by the City of Derby, Kansas at City Hall, 611 N. Mulberry Rd., Derby, Kansas 67037 until **2:00 pm Thursday February 4, 2016.**

Each bid must be submitted in a sealed envelope, addressed to the City Clerk of the City of Derby, Kansas. Each sealed envelope containing a bid must be plainly marked on the outside of the envelope as: **Bid for Thermal Imaging Camera.** If forwarded by mail, the sealed envelope containing the bid must be addressed to the City Clerk, 611 N. Mulberry Rd., Derby, Kansas 67037.

The thermal imaging camera supplied shall meet the minimum specifications attached, and must be current production, new and unused. Bidder shall verify compliance with the attached specifications by so denoting next to each item. Complete printed literature of the proposed thermal imaging camera shall be included with each bid.

Bids must be good until December 31, 2016

The City of Derby with or without cause may reject any or all bids.

New Thermal Imaging Camera Bid Price: \$_____

Company:_____

Bidders Name & Title:_____

Date: _____

Should you have any questions, please contact Deputy Chief Bill Pater, Derby Fire Department, Monday thru Friday between 8:00 a.m. and 5:00 p.m. at (316) 788-4812 or billpater@derbyweb.com

Intent of Specifications:

This specification covers one (1) Thermal Imaging Camera. Specifications include associated hardware, software, and training. The Thermal Imaging Camera system delivered to Derby Fire Department shall meet or exceed the requirements of these specifications.

I. Warranty

The manufacturer shall warrant the thermal imager free of defects in material and workmanship, under normal use and service, for a period of five years from delivery. The five year warranty shall apply to the batteries. The warranty must include free battery replacements during this period. During the warranty period, the manufacturer will provide free inbound and outbound shipping for all service repairs. In addition, the imager's outer shell or housing shall carry a limited lifetime warranty.

Bidder Complies: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Notes:

II. Service:

The manufacturer must be located in the U.S.A. and provide a full-service repair center in the U.S.A. to ensure timely and efficient processing of any service related issues concerning the imager. Warranty repairs must carry a guaranteed 48-hour turnaround (2 full business days) from the time of receipt at the service center to the time that the manufacturer ships the imager or manufacturer must provide a comparable replacement on loan until unit is returned. Non-warranty repairs must carry a guaranteed 48-hour (2 full business days) turnaround from the time the manufacturer receives purchase order authorization to complete the repairs to the time the manufacturer ships the imager.

Bidder Complies: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Notes:

III. Quality:

The manufacturer must ensure quality, design and manufacturing methods through third party certification to ISO 9001 or its equivalent.

Bidder Complies: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Notes:

IV. Physical Configuration:

The imager shall be a hand-held design, having at least a 3.5 inch LED backlit LCD display screen. Total weight of the imager shall not exceed 3 lbs. with the standard battery installed. The imager shall ship standard with two rechargeable

batteries, a battery charger with AC and DC adapters, and an interactive multimedia orientation/training CD-ROM. The imager's physical dimensions shall be no more than six (6) inches tall, four (4) inches wide and seven and a half (7.5) inches long. The imager must contain an integral threaded connector to mount on a standard tripod.

Bidder Complies: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Notes:

V. Durability:

The imager shall remain operational after being submerged under 3 feet of water for 30 minutes. The Thermal Imager shall withstand a 6-foot drop to a concrete floor in any orientation and sustain no operational damage.

Bidder Complies: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Notes:

VI. Technology:

The imaging technology shall utilize a 240x180 pixel uncooled vanadium oxide (VOx) focal plane array. The Noise Equivalent Temperature Difference (NETD) shall be less than 50 mK. The imager shall exhibit an ability to evade whiteout when pointed directly at flames. The detector shall operate with core temperature ranges of -40°F to 175°F (-40°C to 79°C). The dynamic range of the detector and associated electronics shall be nominally 1100°F (592°C). The detector spectral response shall be 7 to 14 microns. Mid-wave or short-wave infrared products that operate below this portion of the infrared spectrum (below 7.5 microns) are not acceptable due to unreliable performance in smoky conditions. The frame rate of the infrared engine shall be no less than 60 hertz.

Bidder Complies: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Notes:

VII. Image Colorization

The imager shall utilize a tri-color automatic colorization mode. The colorization mode shall utilize a yellow/orange/red color scheme. The display will show yellow colorization from 500 degrees F to 799 degrees F, orange colorization at temperatures of 800 degrees F to 999 degrees F, and red colorization at temperatures of 1000 degrees F or hotter.

Bidder Complies: <input type="checkbox"/> Yes <input type="checkbox"/> No
Notes:

VIII. Outer Housing:

The imager shall be ergonomically designed and the outer shell or housing must be manufactured from heat resistant thermoplastic. Due to the likelihood of rigorous use, the thermoplastic must be molded with color pigment throughout to mask small surface scratches. Outer shells or housings that are painted or otherwise lack consistent color through their entire thickness are not equivalent.

Bidder Complies: <input type="checkbox"/> Yes <input type="checkbox"/> No
Notes:

IX. Colors:

Any Appropriate color scheme will work provided it follows the guidelines put forth in Section VII of this specifications outline.

Bidder Complies: <input type="checkbox"/> Yes <input type="checkbox"/> No
Notes:

X. Monitor/Screen:

The imager shall have a minimum 3.5" diagonal LED backlit Liquid Crystal Display (LCD) screen with a minimum 76,800 pixels for high quality resolution. The screen must be visible in thick smoke to both the operator and nearby firefighters from a variety of distances from the face, including arms length. In addition, the display screen must be protected by a clear polycarbonate cover. This cover must be field replaceable and watertight.

Bidder Complies: <input type="checkbox"/> Yes <input type="checkbox"/> No
Notes:

XI. Lens:

The imager shall possess an f/1.3 lens fabricated of germanium. The lens shall be protected with a watertight sealed 2 mm thick germanium cover window.

Bidder Complies: <input type="checkbox"/> Yes <input type="checkbox"/> No
Notes:

XII. Visual Indicators:

The imager shall have only one LED-indicator system to promote maximum ease-of-use. This indicator shall display battery life via with preference given to five LEDs: three green, one yellow and one red.

Bidder Complies: <input type="checkbox"/> Yes <input type="checkbox"/> No
Notes:

XIII. Switches:

The imager shall use one switch to activate the unit. The switch must be protected to avoid accidental shut-off.

Bidder Complies: <input type="checkbox"/> Yes <input type="checkbox"/> No
Notes:

XIV. Strap System:

The strap system must be field replaceable and shall be constructed with the following:

A. The side straps, one on each side of the imager, shall be made primarily of Kevlar. The side straps must be adjustable and must include a metal D-ring. To improve safety, the side straps must have reflective trim.

B. The combination wrist and gear strap shall be made primarily of Kevlar. This strap shall include two metal carabineers and a quick-release buckle that frees the imager from the strap. An optional self-retracting strap must also be available for the imager. The self-retracting strap must retract fully with the full weight of the imager (with battery) hanging unsupported from the strap.

Bidder Complies: <input type="checkbox"/> Yes <input type="checkbox"/> No
Notes:

XV. Power Supply:

A minimum of two (2) NiMH rechargeable batteries shall accompany each imager. Each battery shall be a 10-volt battery, providing a minimum of three hours of continuous use with all standard functions and features. The battery shall have a thermoplastic or equivalent outer shell. The battery must be capable of being loaded into the housing only one way and must be easily inserted and removed by a person wearing standard firefighting gloves. A lithium ion battery is an unacceptable substitute for NiMH due to lithium's higher risk of explosion when exposed to high heat. An optional AA alkaline battery case must also be available for the imager. The optional AA alkaline battery case must load and secure into the imager in the same manner as the standard NiMH battery. It must also be constructed from thermoplastic.

Bidder Complies: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Notes:

XVI. Operation:

The imager must be fully operational no more than four seconds after activating the power switch. The imager must not have a standby switch or mode.

Bidder Complies: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Notes:

XVII. Truck Mount Charging System:

The manufacturer shall provide a truck mount charging system capable of recharging the camera while in a vehicle or fire apparatus. The truck mount charging system shall also be capable of safely securing the camera in place while the vehicle is in motion. The charging system shall come standard with all necessary mounting hardware, a direct charge system, and power cords that enable the use of a DC power supply. The system must charge the battery in the imager at the same time it charges a spare battery. The battery in the imager must be charged through contacts on the imager. No cables or wires connecting the imager to the charging system are acceptable. The system must be compliant to NFPA 1901 when properly mounted in a vehicle or fire apparatus.

Bidder Complies: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Notes:

XVIII. Training:

A product familiarization class will be available through the manufacturer's authorized distributor, and included in the price of the bid.

Bidder Complies: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Notes:

XIV. Delivery:

The manufacturer shall deliver the thermal imager and all ordered accessories in 45 days or less after receiving the purchase order.

Bidder Complies: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Notes:
