CITY

OF

JOPLIN, MISSOURI

BID PACKAGE

#2018-01

for

Thermal Imaging Camera Bid

JOPLIN FIRE DEPARTMENT
Training Division
303 E. 3RD STREET
JOPLIN, MO 64801

	Bidder Complies	
	Yes	No

NOTICE TO BIDDERS

The City of Joplin, Missouri will accept sealed bid proposals until 10:00AM, Monday, February 12, 2018 at the Joplin Fire Department located at 303 E. 3rd Street, Joplin, Missouri, 64801 to PURCHASE the following:

Thermal Imaging Camera Bid

Specifications and bid forms are available from Training Chief Mark Cannon, Fire Dept., by calling 417-623-8142 x 306 or by writing to the address indicated above. Any bids received after the specified deadline will be returned to the vendor.

The City reserves the right to evaluate all bids, to reject any or all bids and re-bid at a later date. The City may waive any irregularities in the bid or negotiate variances from specifications, and make awards that are in the best interests of the City. The City will have final decision in all matters regarding acceptance of bids and issuance of awards.

The City encourages minority and female owned businesses to submit bids on all City purchases.

Leslie Haase, CPA
Finance Director

Publication Date: 1/12/2018

	Bidder Complies	
	Yes	No

INSTRUCTIONS TO BIDDERS

The City of Joplin, Missouri proposes to PURCHASE the following:

Thermal Imaging Camera Bid

All bids shall have firm-fixed F.O.B. Joplin; Missouri price and shall be honored for a minimum of ninety (90) days following the bid opening.

All bids shall be exclusive of Federal, State, and City taxes.

It is the intent of the specifications included with this bid document to generally describe the item(s) desired in sufficient detail as to secure bids on comparable items. All parts not specifically mentioned which are necessary in order for the item(s) to perform as intended shall be included. The strength, quality of workmanship, and material shall be in accordance with the best trade practices.

Specification variances, manufacturer's literature and additional information should be attached to the bid form. All blanks on the attached bid specifications shall be filled in completely and accurately. Any bid not meeting this requirement may be considered non-responsive.

Any protest or grievance must be issued in writing and delivered to the office of the Director of Finance within ten (10) days following the bid opening. Any protest filed after this time period has elapsed will not be considered.

The City encourages selection of products manufactured, assembled and/or produced in the United States, as long as the quality and price are comparable with other items bid.

Businesses which are located within the city limits of Joplin may be given preference in the awarding of a bid, providing the bid from the local business does not exceed the lowest bid by more than 3% or $2,500, whichever is less.

The City may give preference to vendors handling products that contain post-consumer recovered materials, providing the bid does not exceed the lowest bid by more than 5% or $2,500, whichever is less.

Once the bids are reviewed and evaluated, the successful vendor will be notified, in writing, and will receive an authorized City of Joplin purchase order. Verbal acknowledgments will not be considered as official notification and will not obligate the City in any way. Delivery or performance should not be completed without the receipt of an authorized purchase order.
Minimum information to be submitted with each bid shall consist of the following:

1. Verification of Bid Specifications (with variances noted)
2. Bid Form

MARK BID ENVELOPES: "BID 2018-01 Thermal Imaging Camera Bid" 10:00 A.M., Monday, February 12, 2018

	Bidder Complies	
	Yes	No

Questions concerning the specifications and bidding procedures should be directed to Fire Chief James Furgerson, Joplin Fire Department at 303 E. 3rd St, Joplin, MO, 64801 or by phoning 417-624-0820x301.

Thermal Imaging Camera Bid

The Joplin Fire Department is seeking sealed bids for six (6) Thermal Imaging Camera's intended to replace the current issue. The thermal imaging camera and accessories 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.

This specification covers six (6) Thermal Imaging Camera's. Specifications include associated hardware, software, and training. The Thermal Imaging Camera system delivered to Joplin Fire Department shall meet, exceed, or be substantially similar to the requirements of these specifications.

Warranty:

Warranty specifications shall meet, or be substantially similar to the following: 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. A two-year warranty shall be provided for batteries which includes free battery replacements during this period. In addition, the imager's detector shall carry a ten-year warranty. During the warranty period, the manufacturer will provide free inbound and outbound shipping for all service repairs.

Service:

Terms of service specifications shall meet, or be substantially similar to the following: 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	
	Yes	No

Quality:

The manufacturer must ensure quality, design and manufacturing methods through third party certification to ISO 9001 or its equivalent. This device must be certified to the National Fire Protection Association 1801-2013 Standard on Thermal Imagers for the Fire Service.

Physical Configuration:

The imager shall be a hand-held design, having at least a 4 inch LED backlit LCD display screen with 320 X 240 pixels. 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 eleven (11) inches tall, five (5) inches wide and five (5) inches long.

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.

Imaging and Optical Data:

IR Resolution	No less than 320 X 240 pixels.		
Thermal Sensitivity	Less than 30mK @ +30C (+86F)		
Contrast Optimization	Digital Image Enhancement using FSX		
Field of View	51° X 38° / fixed focus		
Image Frequency	60hz		
Zoom	2X Digital Zoom		
Focal Pane Array	Uncooled Microbolometer / 7.5 - 13µm		
Start-Up Time	< 17 Seconds		
Start-Up Time / Sleep	< 4 Seconds		
Storage	200 Images or video clips with max length of 5 minutes each to internal flash memory.		
Image Format	JPEG		
In-Camera Video Recording Format	Non-radiometric MPEG-4		

	Bidder Complies	
	Yes	No

Image Presentation:

Display	3.5” - 4” LCD, 320 X 240 pixels, backlit		
Image Modes – Switchable Using Tools Software	• TI Basic NFPA Firefighting Mode • Black and White Firefighting Mode • Fire Mode • Search and Rescue Mode • Heat Detection Mode		

Measurement:

Object Temp Range	-20°C to + 150°C (-4°F to + 302°F) 0°C t + 650°C (32°F to + 1,202°F)		
Accuracy	±4°C or ±4% of reading for ambient temperature 10°C to 35°C (50°F to 95°F)		

Set-Up:

The imager shall utilize a tri-color automatic colorization mode. The TI Basic colorization mode shall utilize a yellow/orange/red color scheme. The display will show yellow colorization from 300 degrees F to 500 degrees F, Orange colorization at temperatures of 600 degrees F to 800 degrees F, and Red colorization at temperatures of 1,100+ degrees F or hotter.

Color Pallets	Multiple Pallets		
High / Low Sensitivity Color Pallet Temperature Settings	TI Basic • Yellow (300 - 500°F) • Orange (600 - 800°F) • Red (1,100°+)		

Data Communication Interfaces:

Interfaces	USB		
USB	USB Mini-B: Data transfer to and from PC / Uncompressed colorized video		

Power System:

	Bidder Complies	
	Yes	No

A minimum of two (2) Li ion rechargeable batteries shall accompany each imager. Each battery shall be a 10-volt battery, providing a minimum of four 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.

Battery	Two (2) Li ion batteries per unit with 4 hours operating time each		
Charging System	Truck Charger		
Charging Time	2 hours to 85% (3 hours 25 minutes to capacity) Charging status indicated by LED's		
Charging Temperature	0°C to +45°C (32°F to 113°F)		

Environmental:

The imager shall remain operational after withstanding a 6-foot drop to a concrete floor in any orientation and sustain no operational damage

Designed to meet NFPA 1801 specifications	Vibration, impact acceleration resistance, corrosion, viewing surface abrasion, heat resistance, heat and flame, product label durability		
Operating Temperature Range	-20°C to +85°C (-4°F to +185°F) +150°C (+302°F) for 15 min +260°C (+500°F) for 5 min		
Encapsulation	IP 67 (IEC 60529)		
Bump	25g (IEC 60068-2-29)		
Drop	2.0m (6.6ft) on concrete (IEC 60068-2-31)		

Physical:

The imager shall be a hand-held design, having at least a 3.5- 4 inch LED backlit LCD display screen. Total weight of the imager shall not exceed 3 lbs. with the standard battery installed. The imager's physical dimensions shall be no more than eleven (11) inches tall, five (5) inches wide and five (5) inches long.

Camera Weight with Battery	< 1.1kg (<2.4lbs)		
Camera Size	L <120mm (<4.7in) W <125mm (<4.9in) H <280mm (<11in)		

Visual Indicators:

	Bidder Complies	
	Yes	No
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. **Strap System:** The strap system must be field replaceable and shall be constructed with the following: 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. 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. A 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. **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. **Delivery Procedures** The manufacturer shall deliver the thermal imager and all ordered accessories in 45 days or less after receiving the purchase order. **Operational Training**		

	Bidder Complies	
	Yes	No
A product familiarization class shall be available through the manufacturers authorized distributor and included in the price of the bid. Training shall be conducted in two (2) hour time increments, three (3) classes per day, three (3) consecutive days in duration. Each class will have no more than 10 students attending. Options that are substantially similar will be considered. During the operational instruction, each student shall be trained on operational policies and procedures necessary for the safe and effective operation of the system, set up, unit familiarization, safety concerns, safety features, operation guidelines, preventative maintenance, and operational controls. Each student will receive sufficient training as to fully understand system capabilities, and a clear understanding of how the system operates. A Master Manual shall be provided for the department and each student shall receive a student operations manual including maintenance procedures.		

	Bidder Complies	
	Yes	No
Bid Page Bid Price_____ Optional Extended Warranty pricing (If Not Available indicate with N/A) _____ Expected Delivery Date:_____ (Include the estimated delivery date of the trainer to the Department.) Expected Training Timeframe: _____ Additional Notes: **MARK BID ENVELOPES: "BID 2018-01 Thermal Imaging Camera Bid" 10:00 A.M., Monday, February 12, 2018**		