

CITY OF NEWPORT, RHODE ISLAND  
PURCHASING DIVISION  
NOTICE TO BIDDERS

**SEALED BIDS**

#13-068

Sealed bids are being requested to provide a **Bullard T3 MAX Thermal Imager**, in accordance with all terms and specifications contained herein, and will be received in the Purchasing Office, City Hall, 43 Broadway, Newport, R. I., until:

**Two (2:00) o'Clock P.M. Local Time**

**April 10, 2013**

THIS IS A PUBLIC OPENING

If additional information is needed, please contact the Technical POC listed in the package.

Bids/Proposals must be submitted in sealed envelopes addressed to the Purchasing Office, City Hall, 43 Broadway, Newport, R. I. 02840, and must be plainly marked in the lower left hand corner, "**Bullard T3 MAX Thermal Imager # 13-068**". Please provide one (1) electronic copy on CD with your submittal.

Note: Bid Tabulations will be posted on the City of Newport website generally within twenty-four (24) hours of the closing date. The bid tabulation area is located at [www.cityofnewport.com](http://www.cityofnewport.com) under purchasing. The tabs are listed by bid number.

It is the bidder's responsibility to see that the bid is delivered within the time and at the place prescribed. Bids received prior to the time of opening will be securely kept, unopened. Bids may be withdrawn on written request (on the letterhead of the bidder and signed by the person signing the bid) which must be received prior to the time fixed for opening. Bids may be modified in the same manner. No bid or modification thereof received after the time set for opening will be considered, even if it is determined by the City that such non-arrival before the time set for opening was due solely to the delay in the mails for which the bidder is not responsible.

Any bidder taking exception to, or questioning any of the provisions, procedures, conditions or specifications herein stated should make such exceptions known to the undersigned, in writing, not less than five (5) days before the bid opening.

Any change or interpretation made as a result thereof will be published in an addendum and mailed to all prospective bidders. Should a bidder still not be satisfied, he may, in the bid, set out and stipulate the exception, with enough explanation to be understood by the City and, within the stipulation, the INCREASE or DECREASE in the bid price because of the exception shall be stated. The City may, at its discretion, accept or reject any or all exceptions.

Federal Excise Taxes and/or Rhode Island Use Taxes are not to be included in the bid. The City will execute exemption certificates if furnished by the bidder when submitting his invoice.

The bidder will state the approximate delivery date in the bid, or the time required to make delivery after notification of award.

The right is reserved, as the interest of the City may require, to reject any or all bid proposals, to waive any technical defect or informality in bids received, and to accept or reject any bid or portion thereof.

The City of Newport reserves the right to reject any or all proposals or to accept any proposals deemed to be for the best interest of the City.

**The technical point of contact for this package Peter Connerton, Fire Chief, (401) 845-5911 Email to: [pconnerton@cityofnewport.com](mailto:pconnerton@cityofnewport.com).**

Note: All bidders are responsible for insuring that no **addenda** have been added to the original bid package. All bid packages and addenda are located at [www.cityofnewport.com](http://www.cityofnewport.com) under (Active Bids) within the Purchasing webpage using the above bid/proposal number or you can contact the Purchasing Department.

**Prevailing Wage** - Any construction over \$ 1,000.00 is required by state law to pay state prevailing wage. A current copy of the most recent Prevailing Wage scale is obtained from the State of Rhode Island, Department of Labor and Training, Division of Professional Regulation or at the Davis-Bacon Wage Determination link. It is also by request for each construction bid document. All vendors supplying construction services must submit certified payrolls from any contractor and sub-contractor who work on the project. No payments are made until all payrolls are up to date, and correct. Click here for Prevailing Wage Tables.

Prevailing Wages also applies to ALL other (Non-Construction) Requirements. If the City's requirement is sealed bid, the DAVIS-BACON Wage Determination applies.

**Buy American Act** (1933- [Sections 10 \(a-d\) of Title 41](#)) and **Buy American Act Provision** (1982 - [Section 5323\(j\) of Title 49](#)) apply to this requirement, and therefore, documentation may be requested in support.

### **GENERAL CONDITIONS (if applicable)**

1. The City reserves the right to reject any and all proposals, to waive any informality, to request interviews of Service Providers prior to award and to select and negotiate the Service Provider services in the best interest of the City.
2. The Service Provider shall guarantee to perform the services offered and the total price of the proposal for a period of not less than 60 days from the deadline for submission of proposals.
3. The City reserves the right to accept all or part of any proposal, and to negotiate a contract for services and cost with the selected Service Provider.
4. The Service Provider shall provide all necessary personnel, materials and equipment to perform and complete all work under this proposal.
5. All original documents and drawings shall become the property of the City after completion of the Service Provider's work.
6. The City of Newport intends to recommend award of a contract to the City Council for the requested services within one (1) month of receipt of the proposals. The Service Provider shall be prepared to commence work immediately upon execution of a contract with the City.
7. Awards will not be made to any person, firm or company in default of a contract with the City, the State of Rhode Island or the Federal Government.
8. The Service Provider hereby agrees that it will assign to the City of Newport all cause of action that it may acquire under the anti-trust laws of Rhode Island and the United States as the result of conspiracies, combination of contracts in restraint of trade which affect the price of goods or services obtained by the City under this contract if so requested by the City of Newport.
9. Unless otherwise stated, invoices are to be submitted (to Accounting Office) in duplicate upon delivery of service to the City. The invoice must include an itemization of all services provided, including unit list price, net price, extensions and total amount(s) due.
10. Unless otherwise stated, payment will be made within thirty (30) days of the completion of the service, in an acceptable fashion, to the City and receipt of invoice, whichever is later.
11. City is exempt from all sales and Federal excise taxes. Our exemption number is 05-6000-260. Please bill less these taxes.

12. The City of Newport's obligations to pay any amount due under a contract are contingent upon availability and continuation of funds for the purpose. The City may terminate the contract, for non-appropriation of funds, and all payment obligations of the City cease on the date of termination.
13. None of the services covered by the contract shall be assigned in full or in part, or sub-contracted without the prior approval of the City.
14. This contract will be for the services described above; however, this agreement should not be considered exclusive. As deemed necessary, the City reserves the right to obtain these services from any other vendor.
15. Unless otherwise specified all costs listed are firm for the term of the contract.
16. Neither party shall be liable for any inability to perform its' obligations under any subsequent agreement due to war, riot, insurrection, civil commotion, fire, flood, earthquake, storm or other act of God.
17. Notification of the parties shall be considered to have been constructively received when it is mailed via the United States Postal Service or delivered in hand to the parties as stated in the contract.
18. If any of the GENERAL TERMS AND CONDITIONS is held to be invalid or unenforceable, it will be construed to have the broadest interpretation which would make it valid and enforceable under such holding. Invalidity or unenforceability of a term or condition will not affect any of the other GENERAL TERMS AND CONDITIONS.
19. Each and every provision and clause required by law to be inserted in any subsequent Contract shall be deemed to be inserted herein and the Contract shall be read and enforced as though it were included herein, and if through mistake or otherwise any such provision is not inserted, or is not correctly inserted, then upon the application of either party, the Contract shall forthwith be physically amended to make such insertion or correction.
20. Proposal shall also mean quotation, bid, offer, qualification/experience statement, and services. Proposers shall also mean vendors, offerors, bidders, or any person or firm responding to a Request for Proposals.
21. All contracts entered into by the City of Newport shall be governed by the Laws of the State of Rhode Island. Any disputes shall be resolved within the venue of the State of Rhode Island and Newport County.
22. The Service Provider selected for this project shall procure and maintain the following types of insurance:
  - Statutory Workers Compensation and Employer's Liability Insurance

- Professional Services Liability Insurance for errors and omissions (\$1,000,000.00 minimum)
- Liability and Property Damage Insurance (a) Bodily injury liability: \$500,000 each person, \$1,000,000 each occurrence; (b) Property damage liability: \$500,000 each occurrence, \$1,000,000 aggregate.

CITY OF NEWPORT, RHODE ISLAND  
Erin Mulligan, Purchasing Agent,  
(401) 845-5414

**City of Newport**  
**Bullard T3MAX Thermal Imager**  
BID #13-068

**SPECIFICATIONS**

The City of Newport, Fire Department is requesting bids for the purchase of one (1) Bullard T3 Max Thermal Imager, fit to the following specifications. The cost of any optional accessories including Scene Catcher Digital Video Recorder and wireless transmitter must be listed separately from Thermal Imager unit.

- a) Electronic Thermal Throttle
- b) Super Red Hot feature, providing consistent colorization of high heat scenes, starting at 500°F ranging from tinted yellowing and gradually transitioning to solid red as the heat levels rise.
- c) The advanced relative heat indicator (RHI) that reports surface temperature.
- d) 160 x 120 resolution infrared engine
- e) Start up in four seconds and utilizes the T3 form factor

**WARRANTY**

The manufacturer shall warrant the Thermal Imager and all charging systems supplied with the Thermal Imager free of defects in material and workmanship, under normal use and service, for a period of one year effective upon delivery.

In addition, the imager's outer shell or housing shall carry a limited lifetime warranty.

**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.
- 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.
- Upon request, the manufacturer must provide the names and contact information for three fire departments that can serve as references, verifying that the manufacturer complies with this requirement.

## **QUALITY**

- The manufacturer must ensure quality, design and manufacturing methods through third party certification to ISO 9001, or its equivalent. To ensure that the product is of the highest quality, documentation must be presented upon request illustrating a battery of tests that have been conducted to verify water resistance, heat resistance and shock/impact resistance.

## **PHYSICAL CONFIGURATION**

- The imager shall be a hand-held design, having a 3.5-inch LCD display screen and two side straps (one on each side of the imager).
- A combination wrist/gear strap shall accompany the imager. Total weight of the imager shall not exceed 3 lbs. with the standard battery installed.
- The imager shall ship in a padded, re-usable delivery case. The imager shall ship standard with two rechargeable batteries, a battery charger and AC adapter.
- The imager's physical dimensions shall be no more than six (6) inches tall, five (5) inches wide and seven (7) inches long.
- The imager must contain an integral threaded connector to mount on a standard tripod.

## **Durability**

- The imager shall remain operational after being submerged under 3 feet of water for 30 minutes and allow for battery change while the unit is submerged in water.
- The imager shall withstand a 6-foot drop in any orientation and sustain no operational damage.
- The imager shall remain operational after being subjected to 300° F for a minimum of 15 minutes.

## **TECHNOLOGY**

- The imaging technology shall be 160x120 pixel un-cooled amorphous silicon. To ensure reliability, the detector must be designed and manufactured by a company that has provided, for at least ten years, detectors used in the fire service.
- 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 imager's electronics shall remain operational and functionally useful within the temperature range of -20°C to 85°C. The dynamic range of the detector and associated electronics shall be 600°C (± 25°C).
- The imager shall provide surface temperature measurement taken directly from the detector. The detector shall operate in the infrared spectrum of 7.5 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.

## IMAGE COLORIZATION

- In order to provide a greater degree of safety, image colorization shall utilize a tri-color method of yellow/orange/red and shall offer no additional automatic image colorization **options**.
- The display will show yellow colorization at temperatures of 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. Such colorization shall be gradient in nature so as to be able to discern scene details through the color.
- Multiple user selectable color palettes are not acceptable as they can confuse users in fire attack situations resulting in hazardous situations. Color palettes which activate automatically and colorize objects that are below 500 degrees F are not acceptable (this requirement does not apply to manually engaged colorization).

## OUTER HOUSING

- The imager shall be ergonomically designed and the outer shell or housing must be manufactured from heat resistant Ultem thermoplastic given its superior heat performance and chemical resistance. Due to the likelihood of rigorous use, the Ultem 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 acceptable. The interior surfaces of the outer shell or housing shall be coated with a conductive electromagnetic interference (EMI) shielding material.

## COLORS

- The imager should be available in no less than seven scratch resistant colors to allow for color-coding as needed by the department. Colors shall include, at a minimum: Red, Yellow, Black, White, Orange, Blue, and Lime-Yellow.

## MONITOR/SCREEN

- The imager shall have a 3.5" diagonal backlit **Liquid Crystal Display (LCD) screen, and** shall have a minimum of 74, 800 pixels for high quality resolution.

- The screen must utilize a 6 LED backlight technology so it is visible in thick smoke to both the operator and nearby firefighters from a variety of distances from the face, including arms- length.
- In addition, a clear polycarbonate cover must protect the display screen. This cover must be field replaceable and watertight.

## **LENS**

- The imager shall possess an f/1.0 lens fabricated of germanium and have no less than a 37° (V) x 50° (H) field of view. The lens shall be protected with a watertight, sealed 2mm thick germanium cover window.

## **VISUAL INDICATORS**

- The imager shall have only one LED-indicator system to promote maximum ease-of-use. This indicator shall display battery life via three green, one yellow and one red LEDs.
- On-screen battery indicators are unacceptable as they block otherwise visible areas of the display.

## **SWITCHES**

- The imager shall use only one switch to activate the unit. The switch must be recessed and protected to avoid accidental shut-off. The switch shall be a mechanical capture switch which allows for automatic power restoration during a hot battery swap and eliminates the need for a “push and hold” mechanism for powering off that is associated with electronic switches.
- The imager shall have a manual colorization mode as an option or upgrade. This imager must utilize a pair of switches for activating this colorization mode, which helps the user identify the hottest objects in a scene. This colorization mode must be manually adjustable by the user and colorize the hottest objects in a scene with a color that is unique to this mode. Thermal imagers that use yellow, orange, or red to identify hot objects for a manual colorization mode are not acceptable as they can easily be confused with the automatic colorizations modes which typically use such colors to designate fire and high heat conditions.

## **STRAP SYSTEMS**

- The imager must be equipped with side straps, one on each side of the imager and these straps shall be made primarily of Kevlar. The side straps must be adjustable and must include a metal D-ring for secure lanyard attachment. 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. An optional self-retracting strap must also be available for the imager. The self-retracting gear keeper must hold the unit to the firefighters chest with the full weight of the imager (with battery) hanging unsupported from the gear keeper.
- All straps must be field replaceable.

## **POWER SUPPLY**

- A minimum of 2 rechargeable batteries and 1 battery charger shall accompany each imager. Each battery shall be a 10-volt nickel metal hydride (NiMH) cell, providing a minimum of 2 hours of continuous use with all standard functions and features.
- Each battery must be capable of a minimum of 1,000 charges.
- The battery shall have an Ultem outer shell.
- The battery shall eject from the imager only when two opposing battery release buttons are pressed simultaneously.
- 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 case must load and secure into the imager in the same manner as the standard NiMH battery.
- The alkaline case must also be constructed from Ultem.

## **OPERATION**

- The imager shall display a useable image no more than 5 seconds after activating the power switch. The imager must not have a standby switch or mode.

## **WIRELESS TRANSMISSION**

- The manufacturer shall offer an optional wireless remote transmitter compliant with FCC part 90 while operating at a range of 2.4 GHz.

- The wireless transmitter must come as a two (2) or four (4) channel unit. The transmitter shall be housed inside an attachable handle, protecting the transmitter and antenna from possible damage while giving the department the option to disengage the transmitter. Attaching the transmitter handle must not increase the width of the imager by more than one (1) inch.
- Each wireless unit must have a receiver and antenna able to receive a signal from at least 600 feet through common Type V construction.
- The transmitter must carry a one year warranty.

## **WIRELESS RECEIVERS AND VIDEO RECORDERS**

- 1) The manufacturer must offer the following receiver and recorder options:
  - a) A handheld, self-contained receiver / monitor system that uses the same batteries as the thermal imager.
  - b) The handheld receiver / monitor system must operate for a minimum of 2 hours on the standard battery and must utilize a minimum 3.5” diagonal viewable display.
  - c) The receiver must be equipped with video out capability and have a field replaceable display cover.
  - d) The receiver must carry a one year warranty.
  - e) A digital image and video recorder (DVR), housed in an attachable handle, capable of recording five hours of video and 300 still images. Stored digital video shall download to the user’s computer via USB 2.0 connection. Due to video file sizes, USB 1.0 is not acceptable due to its slower transfer speed.
  - f) Video and image files shall be a minimum 640 x 480 resolution and incorporate time and date stamps on the recorded image.
  - g) The DVR shall utilize “plug and play” technology so Windows PC operating systems automatically recognize and enable installation and setup of the software without need for an installation CD or other media. If so configured, the DVR shall work seamlessly with the transmission system and allow the user the ability to operate the transmitter and DVR separately or both simultaneously.
  - h) The DVR must carry a one year warranty.

## TRUCK MOUNT

- The manufacturer must offer a truck mounted charging system to mount the imager and internal charging system in a vehicle or fire apparatus or on the wall of a fire station.
- 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 utilizing separate charging systems.
- 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, nor are straps or other connecting devices to hold the imager to the truck mounting system.
- The system must be compliant to NFPA 1901 when properly mounted in a vehicle or fire apparatus. The truck mount charger system must include a separate storage compartment large enough to hold a spare battery or AA alkaline battery case.
- The truck mount must carry a one year warranty.

## TRAINING

- A product familiarization class will be available through the manufacturer's authorized distributor.
- Each imager must ship with an interactive multimedia orientation CD-ROM covering the technology, product uses, and applications. The CD-ROM must have interactive testing of each main section covered in the program.
- To provide adequate training for every fire department member, the manufacturer must also make the training available via the internet. This web-based training shall offer quizzes and final exams which, when passed, produce a printable certificate that can be kept in the department's files.
- To ensure the highest quality training materials, the manufacturer must have at least one full-time employee dedicated to developing and delivering thermal imaging training.
- To qualify, the employee must have at least ten years of active firefighting experience and must be certified as a thermal imaging instructor by an internationally recognized organization that specializes in thermal imaging for public safety organizations.
- The employee must also spend at least 75% of his/her time on thermal imaging training programs.

Bid Sheet #13-068

Date: \_\_\_\_\_

I/We \_\_\_\_\_ the undersigned do hereby propose to furnish the City of Newport, Rhode Island, **Bullard T3 MAX Thermal Imager**, in accordance with all terms and specifications contained herein:

1. Lump sum cost of unit as sited in specifications:

\$\_\_\_\_\_ including shipping

2. Optional accessories:

a) Scene-Catcher Digital Video Recorder: \$\_\_\_\_\_

b) Wireless Transmitter: \$\_\_\_\_\_

3. Additional Options (please attach sheet w/breakdown of cost per item)

\_\_\_\_\_  
NAME OF FIRM

\_\_\_\_\_  
SIGNATURE & TITLE

\_\_\_\_\_  
ADDRESS, CITY, ZIP CODE

\_\_\_\_\_  
TELEPHONE NUMBER

\_\_\_\_\_  
FAX NUMBER

\_\_\_\_\_  
E-MAIL ADDRESS

**NOTE:**

- **On a separate attachment, or use the one provided, list the Officers of your Corporation or Principals of your LLC. Award can not be done without the attachment.**
- Please provide any literature you feel may be necessary.
- All bidders are responsible for insuring that no **addenda** have been added to the original bid package.
- All bid packages and addendumes are located at [www.cityofnewport.com](http://www.cityofnewport.com) or you can contact the Purchasing Department.
- Bid Analysis (Tab) sheets as well as Resolutions (when completed) will be located at: [http://www.cityofnewport.com/departments/finance/purchasing/bid\\_tabs.cfm](http://www.cityofnewport.com/departments/finance/purchasing/bid_tabs.cfm).

Bid #13-068

List the Officers of your Corporation or Principals of your LLC. Award can not be done without the attachment.

\_\_\_\_\_  
Complete Company Name

\_\_\_\_\_  
Name

\_\_\_\_\_  
Title/Officer/Position

\_\_\_\_\_  
Name

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Title/Officer/Position