

JUSTIFICATION FOR NON-COMPETITIVE PROCUREMENT

FILE COPY

COMPLETE THIS SECTION IF NEW CONTRACT

For contract(s) in this request, answer applicable questions in each of the 4 major subject areas below in accordance with the Instructions for Preparation of Non-Competitive Procurement Form on the reverse side.

Request that negotiations be conducted only with \_\_\_\_\_ for the product and/or services described herein.  
 (Name of Person or Firm)

This is a request for \_\_\_\_\_ (One-Time Contractor Requisition # \_\_\_\_\_, copy attached) or \_\_\_\_\_ Term Agreement or \_\_\_\_\_ Delegate Agency (Check one). If Delegate Agency, this request is for "blanket approval" of all contracts within the \_\_\_\_\_ (Attach List) Pre-Assigned Specification No. \_\_\_\_\_ (Program Name) Pre-Assigned Contract No. \_\_\_\_\_

COMPLETE THIS SECTION IF AMENDMENT OR MODIFICATION TO CONTRACT

Describe in detail the change in terms of dollars, time period, scope of services, etc., its relationship to the original contract and the specific reasons for the change. Indicate both the original and the adjusted contract amount and/or expiration date with this change, as applicable. Attach copy of all supporting documents. Request approval for a contract amendment or modification to the following:

Contract #: 9375

Company or Agency Name: Environmental Safety

Specification #: 15077

Contract or Program Description: Thermal Imaging

Mod. #: \_\_\_\_\_ (Attach List, if multiple)

Cameras + Repair

Fire 2/15/07

Naren Sanger 745-4196  
 Originator Name Telephone

[Signature]  
 Signature

Department Date

Indicate SEE ATTACHED in each box below if additional space needed:

<input checked="" type="checkbox"/> PROCUREMENT HISTORY	See attached	<b>S.S.R.B.</b> DATE <u>2/21/07</u> APPROVED <u>[Signature]</u> CONDITIONALLY APPROVED _____ RETURN TO DEPT. _____ DISAPPROVED _____
<input checked="" type="checkbox"/> ESTIMATED COST	See attached	
<input checked="" type="checkbox"/> SCHEDULE REQUIREMENTS	See attached	
<input checked="" type="checkbox"/> EXCLUSIVE OR UNIQUE CAPABILITY	See attached	
<input checked="" type="checkbox"/> OTHER	See attached	

APPROVED BY: [Signature]  
 DEPARTMENT HEAD OF DESIGNEE

2/15/07  
 DATE

[Signature]  
 BOARD CHAIRPERSON

2/21/07  
 DATE

# DPS PROJECT SUPPLEMENTAL CHECKLIST

## TELECOMMUNICATIONS AND UTILITIES SUPPLEMENTAL CHECKLIST

**Required Attachments:** Detailed Scope of Services/Specification which sets forth all of the anticipated services and products the user department wants provided, including time frame for completion, special qualifications of prospective vendors, special requirements or needs of the project, locations, anticipated participating user departments, citation of any applicable City ordinance or state/federal regulation or statute.

Has the project been reviewed by DGS?  Yes  No

Attach copy of DGS Recommendation; Reservation(s); or participate under current contract.

Does the project include software?  Yes  No

If yes, is signed ITSC form attached?  Yes  No

Does the location involve:

A public way?  Yes  No

Any concession in the City's facilities?  Yes  No

Is it anticipated City Council approval of the project or contract will be required?  Yes  No

FILE COPY

## WORK SERVICES/FACILITY MAINTENANCE SUPPLEMENTAL CHECKLIST

**Required Attachments:** Detailed Specifications (Scope of Services) including detailed description of the work, locations (with supporting detail), user department contacts, work hours/days, laborer/supervisor mix, compensation and price escalation considerations, Bidder's qualification, contract term and extension options, Contractor's qualifications, citation of any applicable City/State/Federal statutes or regulations, citation of any applicable technical standards and Price Lists/Catalogs, technical drawings and other exhibits and attachments as appropriate.

### Risk Management:

Will services be performed within 50 feet (50') of CTA train or other railroad property?  Yes  No

Will services be performed on or near a waterway?  Yes  No

Will services require the handling of hazardous/bio-waste material?  Yes  No

Will services require the blocking of streets or sidewalks which may affect public safety?  Yes  No

If Modification of Amendment request, please verify and provide the following:

Contractor's Name:

Contractor's Address:

Contractor's e-mail Address:

Contractor's Phone Number:

Contractor's Contact Person:

S. S. R. B.

DATE 2/21/07

APPROVED... DWY

CONDITIONALLY  
APPROVED... \_\_\_\_\_

RETURN TO DEPT..... \_\_\_\_\_

DISAPPROVED.... \_\_\_\_\_

CITY OF CHICAGO  
DEPARTMENT OF PURCHASES, CONTRACTS AND SUPPLIES  
EXTENDED PURCHASING SYSTEM (EPS FORM F-17)

REQUEST MODIFICATION FOR LINE ITEM ADDITIONS AND/OR DELETIONS

INSTRUCTIONS: THIS FORM MUST BE COMPLETED BY THE USER DEPARTMENT TO REQUEST ADDING AND/OR DELETING ANY LINE ITEMS TO AN EXISTING (PN) OR ANNUAL TERM AGREEMENT (TA). ALL APPLICABLE SECTIONS BELOW MUST BE COMPLETED OR THE FORM WILL BE RETURNED TO YOUR DEPARTMENT. IF A SECTION DOES NOT APPLY, INDICATE "NA". FOR ITEM ADDITIONS, COMPLETE SECTION 12A ON PAGE 2. FOR ITEM DELETIONS, COMPLETE SECTION 12B ON PAGE 3.

A SEPARATE FORM MUST BE COMPLETED PER CONTRACT. FORWARD REQUESTS TO THE PURCHASING AGENT, DEPARTMENT OF PURCHASES, CONTRACTS AND SUPPLIES, ROOM 403, CITY HALL, 121 N. LA SALLE STREET, CHICAGO, ILLINOIS 60602

REQUEST DATE: 1/120/2007 MODIFICATION NO. \_\_\_\_\_  
(Assigned By Purchasing Coding Section)

1. CONTRACT DESCRIPTION: Thermal Imaging Cameras, New, Maint. and parts
2. SPECIFICATION NO. 15077
3. (PN) NUMBER: 15077 / (TA) NUMBER: \_\_\_\_\_
4. VENDOR NAME: Environmental Safety Group VENDOR CODE NO.: 1056444  
ADDRESS: 570 E North Frontage Rd. (EFT) CITY: Bolingbrook STATE: IL ZIP CODE: 60440
5. TOTAL NUMBER OF APPROVED MODIFICATIONS (TO DATE): NONE
6. ORIGINAL AWARD AMOUNT: \$ 200,000. (OR AUTHORIZED VENDOR LIMIT, IF TERM AGREEMENT)
7. NET CHANGE (THIS REQUEST): PLUS: \$ 800,000. OR (MINUS): \$ 0
8. ADJUSTED VALUE AFTER MODIFICATION (INCLUDING THIS NET CHANGE): \$ 1,000,000.
9. PARAGRAPH TITLE AND PAGE NUMBER IN THE CONTRACT WHICH ALLOWS FOR THIS CHANGE:
10. SPECIFIC REASONS FOR REQUESTING THIS CHANGE (EXPLAIN):

11. APPROVALS FOR THIS REQUEST

REQUEST ORIGINATED BY: [Signature] TITLE: Contracts Coordinator  
(Authorized Officer Signature)

APPROVED BY: [Signature] DEPARTMENT: Fire  
(Department Head Signature)

APPROVED BY PURCHASING AGENT: \_\_\_\_\_ DATE: \_\_\_\_\_  
(Signature)

DATA ENTRY BY: \_\_\_\_\_ DATE ENTERED: \_\_\_\_\_  
(Signature)

PRINTED MODIFICATION WITH REVISED PROPOSAL PAGE  
PRINT SENT TO CONTRACT ADMINISTRATOR/NEGOTIATOR : \_\_\_\_\_

EPS FORM F-17: REQUEST MODIFICATION FOR LINE ITEM ADDITIONS AND/OR DELETION

12A. ADD LINE ITEM TO PO: \_\_\_\_\_  
 PO: PO 9375

IF PPS, COMPLETE BOTH ACCOUNTING & COMMODITY LINE INFORMATION;  
 IF TERM AGREEMENT, COMPLETE ONLY COMMODITY LINE INFORMATION

ACCOUNTING LINE NO.	BFYR	FUND	DEPT	ORGN	APPR	ACTV	OBJ	PROJ	RPTG
COMMODITY LINE NO.	QTY	UNIT COST	COMMODITY CODE NO.	UNIT MEASURE	TOTAL COST				
	60	\$ 699	653905302	Year	\$ 17,475.				
ACCOUNTING LINE NO.	BFYR	FUND	DEPT	ORGN	APPR	ACTV	OBJ	PROJ	RPTG
COMMODITY LINE NO.	QTY	UNIT COST	COMMODITY CODE NO.	UNIT MEASURE	TOTAL COST				
	60	\$ 12,249.	6553905307	Each	\$ 748,500.				
ACCOUNTING LINE NO.	BFYR	FUND	DEPT	ORGN	APPR	ACTV	OBJ	PROJ	RPTG
COMMODITY LINE NO.	QTY	UNIT COST	COMMODITY CODE NO.	UNIT MEASURE	TOTAL COST				
	7000	\$ 1	65598.20	USD	\$ 7,000.				

(ATTACH ADDITIONAL PAGES, IF NECESSARY)

EPS FORM F-17: REQUEST MODIFICATION FOR LINE ITEM ADDITIONS AND/OR DELETION

12A. ADD LINE ITEMS TO FN: \_\_\_\_\_  
 TA: \_\_\_\_\_

IF FN# COMPLETE BOTH ACCOUNTING & COMMODITY LINE INFORMATION  
 IF TERM AGREEMENT, COMPLETE ONLY COMMODITY LINE INFORMATION

ACCOUNTING LINE NO.	BFYR	FUND	DEPT	ORGN	APPR	ACTV	OBJ	PROJ	RPTG
COMMODITY LINE NO.	QTY	UNIT COST	COMMODITY CODE NO.	UNIT MEASURE	TOTAL COST				
	5	\$ 289.99	65539	Job	\$ 14,449.95				
ACCOUNTING LINE NO.	BFYR	FUND	DEPT	ORGN	APPR	ACTV	OBJ	PROJ	RPTG
COMMODITY LINE NO.	QTY	UNIT COST	COMMODITY CODE NO.	UNIT MEASURE	TOTAL COST				
	3	\$ 419.99	65539	Job	\$ 1,259.97				
ACCOUNTING LINE NO.	BFYR	FUND	DEPT	ORGN	APPR	ACTV	OBJ	PROJ	RPTG
COMMODITY LINE NO.	QTY	UNIT COST	COMMODITY CODE NO.	UNIT MEASURE	TOTAL COST				
	3	\$ 529.99	65539	Job	\$ 1,589.97				

(ATTACH ADDITIONAL PAGES, IF NECESSARY)

KPS FORM F-17: REQUEST MODIFICATION FOR LINE ITEM ADDITIONS AND/OR DELETION

UNCLASSIFIED

12A. ADD LINE ITEMS TO PN: \_\_\_\_\_

IF (PN), COMPLETE BOTH ACCOUNTING & COMMODITY LINE INFORMATION;  
IF TERM AGREEMENT, COMPLETE ONLY COMMODITY LINE INFORMATION

TA: \_\_\_\_\_

ACCOUNTING LINE NO.	BFYR	FUND	DEPT	ORGN	APPR	ACTV	OBJ	PROJ	RPTG
COMMODITY LINE NO.	QTY	UNIT COST	COMMODITY CODE NO.	UNIT MEASURE	TOTAL COST				
	3	\$ 1,199.99	65539	Job	\$ 3,599.97				
ACCOUNTING LINE NO.	BFYR	FUND	DEPT	ORGN	APPR	ACTV	OBJ	PROJ	RPTG
COMMODITY LINE NO.	QTY	UNIT COST	COMMODITY CODE NO.	UNIT MEASURE	TOTAL COST				
	5	\$ 3,999.99	65539	Job	\$ 19,999.95				
ACCOUNTING LINE NO.	BFYR	FUND	DEPT	ORGN	APPR	ACTV	OBJ	PROJ	RPTG
COMMODITY LINE NO.	QTY	UNIT COST	COMMODITY CODE NO.	UNIT MEASURE	TOTAL COST				
		\$			\$				

(ATTACH ADDITIONAL PAGES, IF NECESSARY)

*rac/for/4*

**CITY OF CHICAGO  
PRE-APPROVED  
MODIFICATION / OVERRIDE REQUISITION**

Copy (Department)

<b>DELIVER TO:</b>  336 FINANCE AND FISCAL MANAGEMENT 10 W. 35TH STREET 14TH FLOOR CHICAGO, IL 60616	<b>REQUISITION:</b> 31622 For PO Number: 9375  <b>PAGE:</b> 1 <b>DEPARTMENT:</b> 59 - FIRE DEPARTMENT <b>PREPARER:</b> Karen L Sanger <b>NEEDED:</b> <b>PRE-APPROVED</b> 1/10/2007
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**REQUISITION DESCRIPTION**

ADD LINE ITEMS TO PO 9375 - ENVIRONMENTAL SAFETY GROUP  
 SPECIFICATION NUMBER: 15077  
 Mod Reason: SCOPE CHANGE

**COMMODITY INFORMATION**

LINE	ITEM	QUANTITY	UOM	UNIT COST	TOTAL COST						
1	6553905302 CAMERA, THERMAL - MAINTENANCE SERVICE FOR BULLARD T3 MAX THERMAL IMAGING CAMERA	60	Year	0.00	0.00						
<b>SUGGESTED VENDOR:</b>		<b>REQUESTED BY:</b> Karen L Sanger									
<b>DIST</b>	<b>BFY</b>	<b>FUND</b>	<b>COST CTR</b>	<b>APPR</b>	<b>ACCNT</b>	<b>ACTV</b>	<b>PROJECT</b>	<b>RPT CAT</b>	<b>GENRL</b>	<b>FUTR</b>	
1	006	0100	0594134	0340	220340	0000	00000000	000000	00000	0000	0.00
<b>LINE TOTAL:</b>											<b>0.00</b>
2	6553905307 CAMERA, THERMAL - T3 MAX BULLARD THERMAL IMAGING COLORED HOUSING CAMERA	60	Each	0.00	0.00						
<b>SUGGESTED VENDOR:</b>		<b>REQUESTED BY:</b> Karen L Sanger									
<b>DIST</b>	<b>BFY</b>	<b>FUND</b>	<b>COST CTR</b>	<b>APPR</b>	<b>ACCNT</b>	<b>ACTV</b>	<b>PROJECT</b>	<b>RPT CAT</b>	<b>GENRL</b>	<b>FUTR</b>	
1	006	0100	0594134	0340	220340	0000	00000000	000000	00000	0000	0.00
<b>LINE TOTAL:</b>											<b>0.00</b>
3	65598.20 PARTS FOR BULLARD T3 MAX THERMAL IMAGING CAMERA	7,000	USD	0.00	0.00						
<b>SUGGESTED VENDOR:</b>		<b>REQUESTED BY:</b> Karen L Sanger									
<b>DIST</b>	<b>BFY</b>	<b>FUND</b>	<b>COST CTR</b>	<b>APPR</b>	<b>ACCNT</b>	<b>ACTV</b>	<b>PROJECT</b>	<b>RPT CAT</b>	<b>GENRL</b>	<b>FUTR</b>	
1	006	0100	0594134	0340	220340	0000	00000000	000000	00000	0000	0.00
<b>LINE TOTAL:</b>											<b>0.00</b>
4	65539 CAMERA, THERMAL - REPAIR SERVICE TIER RATE 1 T3 MAX THERMAL IMAGING CAMERA	5	Job	0.00	0.00						
<b>SUGGESTED VENDOR:</b>		<b>REQUESTED BY:</b> Karen L Sanger									
<b>DIST</b>	<b>BFY</b>	<b>FUND</b>	<b>COST CTR</b>	<b>APPR</b>	<b>ACCNT</b>	<b>ACTV</b>	<b>PROJECT</b>	<b>RPT CAT</b>	<b>GENRL</b>	<b>FUTR</b>	
1	006	0100	0594134	0162	220162	0000	00000000	000000	00000	0000	0.00
<b>LINE TOTAL:</b>											<b>0.00</b>

Where a commodity is for a particular or unique use other than standard quality, grades, color, size or other characteristics, give details of how it will be and for what purpose  
 Requisitions prepared incorrectly will be returned to the using department.

## **PROCUREMENT HISTORY**

- 1). In 2002 Bank One donated 120 Bullard MX Thermal Imaging Cameras to the Chicago Fire Department. The division of equipment and supply is now requesting to purchase Bullard T3 Max thermal imaging cameras to replace the donated cameras at a rate of 20 per year.
- 2). This will be a continuation of the current contract # 9375 which is assigned to Environmental Safety Group.
- 3). The Manufacturer Bullard states that Environmental Safety Group is the only authorized thermal imaging distributor in Northern Illinois.
- 4). N/A
- 5). Unless Bullard gives the authorization for another distributor, there is little the Fire Dept. can do in the way of competitive bidding.
- 6). This will be a add on request to the current contract.
- 7). At the present time competitive bidding is not possible.

## **ESTIMATED COST**

- 1). Approximately \$275,000.00 per year. Funding will be 059-4134-0162 and E-note money for the addition to the contract.
- 2). \$275,000.00 additionally to the current contract # 9375
- 3). A annual preventative maintenance program is recommended at a cost of \$699.00 per camera. It is the intent of this division to pm at least 25 per year. In addition we will purchase 20 Bullard T3 Max thermal imaging cameras in 2007. The remaining funds will be used for repairs and misc. parts needed to maintain the cameras.
- 4). N/A
- 5). Pricing was obtained from the manufacturer and then a discount was applied off list.

## **EXCLUSIVE OR UNIQUE CAPABILITY**

- 1). Bullard stated that Environmental Safety Group is the only distributor in the Chicago land area.
- 2). Yes



- 3). Environmental Safety Group has a long history with the Bullard thermal Imaging Cameras.
- 4). Bullard only allows the Bullard Service Technicians to perform specific repairs to the internal components of the camera due to a required vacuum seal. Environmental Safety Group personnel are certified to perform any other repairs required.
- 5). Environmental Safety Group is the only distributor in the area that is certified in repair and maintenance.
- 6). Due to the fact that the original cameras were a donation to the Fire Department, Bullard was the only camera that the department received. We field tested the T3Max and it met all the requirements.
- 7). No
- 8). Environmental Safety Group is the only authorized distributor per Bullard.

Copy (Department)  
Reprint

CITY OF CHICAGO  
BLANKET PURCHASE ORDER

Copy (Department)  
Reprint

Furnish the supplies and/or services described below in conformance with conditions set forth herein and in your offer.

START DATE	END DATE	PURCHASE ORDER	SPECIFICATION NUMBER	VENDOR NUMBER	LIMIT	DATE OF AWARD	PAGE NUMBER
1/1/2006	12/31/2010	9375	15077	1056444	\$1,400,000.00	6/5/2006	1

<b>BUYER:</b> 211849 FELICIA RAWLINGS 312-744-9806	<b>CONT. TYPE:</b> WORK SERVICES / FACILITIES MAINT.	<b>ORDERED FROM:</b> ENVIRONMENTAL SAFETY GROUP 570 E. NORTH FRONTAGE RD.(EFT) BOLINGBROOK, IL 60440
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PO DESCRIPTION: MAINTENANCE, PARTS AND REPAIR SERVICE FOR BULLARD MX THERMAL IMAGING CAMERAS

COMMODITY INFORMATION

Line	Item	Item Description	UOM	Unit Cost
1	6553905300	CAMERA, THERMAL - MAINTENANCE SERVICE FOR BULLARD MX THERMAL IMAGING CAMERAS	Year	899.00
3	6553905310	CAMERA, THERMAL - PARTS FOR BULLARD MX THERMAL IMAGING CAMERAS	USD	0.00
4	65539	CAMERA, THERMAL-REPAIR SERVICE TIER RATE FOR BULLARD MX THERMAL IMAGING CAMERAS (TIER 1)	Job	289.99
5	65539	CAMERA, THERMAL-REPAIR SERVICE TIER RATE FOR BULLARD MX THERMAL IMAGING CAMERAS (TIER 2)	Job	529.99
6	65539	CAMERA, THERMAL-REPAIR SERVICE TIER RATE FOR BULLARD MX THERMAL IMAGING CAMERAS (TIER 3)	Job	879.99
7	65539	CAMERA, THERMAL-REPAIR SERVICE TIER RATE FOR BULLARD MX THERMAL IMAGING CAMERAS (TIER 4)	Job	1,749.99
8	65539	CAMERA, THERMAL-REPAIR SERVICE TIER RATE FOR BULLARD MX THERMAL IMAGING CAMERAS (TIER 5)	Job	3,999.99

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65539  
10 dig

Line 9	Camera, Thermal Maintenance Service for Bullard T3Max Thermal imaging camera	Year	699.00	25	L-1
Line 10	Camera, thermal- parts for Bullard T3 Max thermal imaging cameras	USD	8% off list	7000.00	L-3
Line 11	Camera, thermal-repair service tier rate 1 T3 Max thermal imaging camera	job	289.99	5	
Line 12	camera, thermal-repair service tier rate 2 T3Max thermal imaging camera	job	419.99	3	
Line 13	camera, thermal-repair service tier rate 3 T3 Max thermal imaging camera	job	529.99	3	
Line 14	camera, thermal-repair service tier rate 4 T3 Max thermal imaging camera	job	1199.99	3	
Line 15	camera, thermal-repair service tier rate 5 T3 Max thermal imaging camera	job	3999.99	5	
Line 16	camera, thermal imaging T3Max colored housing Bullard	each	12249.00	20	L-2

TO TOM 1/4/06

## DETAILED SPECIFICATIONS

### **SCOPE**

This specification covers commercially produced Thermal Imaging Cameras. The Thermal Imaging Cameras provided under these specifications must be a Bullard T3MAX type imager that meet the requirements of these specifications. Materials used in construction of the Thermal Imaging Cameras must be new and not less than the quality conforming to modern engineering and manufacturing practices. Materials must be free of defects and suitable for the service intended.

### **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 illustrating that 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.

The imager shall have a 3.5 inch LCD display screen.

The imager shall be equipped with 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 2.9 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 with AC and DC adapters.

The imager shall include an interactive multimedia orientation/training CD-ROM capable of testing individual firefighters and reporting those test results to a centralized location.

The imager's physical dimensions shall be no more than five (5) inches tall, four (4) 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.

The thermal imager battery must be able to be removed and replaced while the imager is submerged under water.

The thermal imager shall withstand a 6-foot drop on concrete in any orientation and sustain no operational damage.

## **TECHNOLOGY**

The imaging technology shall be 160 X 120 pixel un-cooled amorphous silicon microbolometer detector.

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 or the sun.

The imager shall operate over core temperature ranges of -40 degrees Celsius to +85 degrees Celsius. The dynamic range of the detector and associated electronics shall be 600 degrees Celsius (+25 degrees Celsius).

The imager shall provide surface temperature measurement taken directly from the detector.

To ensure safety, temperatures must be displayed in a bar graph form rather than numerically.

The temperature display must indicate temperature as high as 1200 degrees F.

The imager shall have a colorization mode, active only in its low gain setting that colors items in three colors based on their temperatures.

The system shall activate at 500 degrees F with yellow colorization, at 750 degrees F with orange colorization, and at 1000 degrees F and above with red colorization.

Colorization must occur in gradations, meaning that each color appears in multiple shades based on the actual temperature of the object.

## **OUTER HOUSING**

The outer shell or housing must be manufactured from heat resistant Ultem thermoplastic.

The Ultem must be molded with color pigment through to mask small surface scratches.

The interior surfaces of the outer shell or housing shall be coated with a conductive electromagnetic interference (EMI) shielding material.

## **MONITOR**

The imager shall have a 3.5" diagonal fluorescent backlit Liquid Crystal Display (LCD) screen.

It shall have a minimum pixel range of 89,856 and a dot format of 234 x 384 dots 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.

The display screen must be protected by a clear polycarbonate cover.

This cover must be field replaceable and watertight.

## **LENS**

The imager must be an f/1.0 lens fabricated of germanium.

The lens shall be protected with a watertight, sealed 2 mm 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 5 LED's: three greens, one yellow and one red.

## **SWITCHES**

The imager shall have only one switch, and it must only turn on and off the unit. The switch must be recessed and protected to avoid accidental shut-off.

The imager shall also be equipped with a pair of switches that activates a special 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.

## **STRAP SYSTEMS**

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 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 two metal carabineers and quick-release buckle that frees the imager from the strap.

A 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.

## **POWER SUPPLY**

A minimum of two (2) rechargeable batteries shall accompany each imager. Each battery shall be a 10 volt nickel metal hydride (NiMH) cell, providing a minimum of 2 ½ 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.

The battery must be easily inserted and removed by a person wearing standard firefighting gloves.

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. It must also be constructed from Ultem.

## **OPERATION**

The imager must be fully operational no more than 5 seconds after activating the power switch.

The imager must not have a standby mode.

## **TRUCK MOUNT**

The manufacturer must offer a truck charging system to mount the imager and internal charging system in a vehicle or fire apparatus, or on the wall of a fire house.

The charging system shall come standard with all necessary mounting hardware, a direct charge system, and power cords that enable the use of 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.

The system must be compliant to NFPA 1901 when properly mounted in a fire apparatus.

The charger must include a separate storage compartment large enough to hold a spare battery or AA alkaline battery case.

## **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.

The vendor shall provide at his/her expense, a factory trained instructor for such time as the department may require for complete instruction on the operation, care and maintenance of the imager.

The vendor shall provide basic maintenance training to the fire department air mask technicians. The technicians shall be trained to a level of competency to make routine repairs, not to include electronic components. This training will be provided by the vendor to 5 technicians at no expense to the city.

## **WARRANTY**

The manufacturer shall warrant the imagers free of defects in material and workmanship, under normal use and service, for a period of two years from delivery.

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

**SERVICE**

The manufacturer must be located in the USA and provide a full service repair center in the USA 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 (3) fire departments that can serve as references, verifying that the manufacturer complies with this requirement.

**DELIVERY**

The manufacturer shall deliver the thermal imager and all ordered accessories in 30 days or less after receiving the purchase order. The imager shall be delivered to the City of Chicago Fire Department located at 1044 N. Orleans Chicago, IL 60610. The Fire Department's contact person is Chief Robert Anthony who can be reached at 312-744-3209.



November 22, 2006

Chief Bob Anthony  
Chicago Fire Department

QUOTE

T3Max Bullard T3 Max Thermal Imager List Price \$11,999.00 each

System Includes:

- Two 10 volt NiMH rechargeable batteries
- Battery Charger with AC and DC adaptors
- Combination wrist and gear strap
- Carry Case
- Electronic Thermal Throttle
- Super Red Hot Feature (Colorization over 500+ Degrees)

Optional Equipment:

- Extended Warranty of one additional year (Total of 2 years) \$1,000.00
- Retractable lanyard keeps T3 out of the way while crawling \$49.00 ea

Your Cost per Camera with optional equipment listed \$10,499.00
---

Should you have any questions or require additional information do not hesitate to contact me.

Respectfully,

Steve Demas  
Vice President

Quote Valid for 60 Days

570 E. North Frontage Road Bolingbrook, IL 60440  
800-242-4295 Fax 630-633-5555



# Bullard®

It's your life and you're worth it™

**Bullard**  
1898 Safety Way  
Cynthiana, KY 41031-9303  
Toll free: 877-BULLARD (285-5273)  
Tel: 859-234-6611  
Fax: 859-234-8987

**Bullard GmbH**  
Hochkreuzallee 36  
53175 Bonn - Bad Godesberg  
Germany  
Tel: +49 228 931 9330  
Fax: +49 228 931 93350

Thursday, November 30 2006



Fire and Rescue  
Safety



Thermal  
Imaging

To Whom It May Concern:

In order to continually improve customer support and to guarantee the highest standard of technical factory training guidelines Bullard has chosen to market our Thermal Imaging line of products through exclusive factory authorized distributors.

This letter is intended to let all parties be known that Environmental Safety Group is the authorized distributor for Northern Illinois – including the City of Chicago.

If you have any questions, please feel free to contact me.

Regards,

Jimmie Smith  
National Sales Manager



05 DEC -7 P3:00

December 4, 2006

Debbie Smith  
Chicago Fire Department  
1044 North Orleans  
Chicago, IL. 60610

Debbie,

Here are the parts and accessories you requested for the T3 Max camera for the Fire Department. ESG will extend an 8% Discount from the list price shown below on all replacement parts and accessories with the exception of the preventive maintenance program.

T3TRANSONLY	T3 Series 4 Channel Transmitter	\$ 1,600.00
T3TRANSONLY2	T3 Series 2 Channel Transmitter	\$ 1,600.00
T3POWERHOUSE	T3 Series Powerhouse Vehicle Charging Mount	\$ 629.00
T3POWERHOUSEKIT	T3 Series Powerhouse AC/DC Conversion Kit	\$ 85.00
T3HANDLE	T3 Series Attachable Handle	\$ 89.00
T3CASE	T3 Series Hard Storage and Carrying Case	\$ 225.00
T3ALK	T3 Series Alkaline Battery Pack (8 AA Batteries Required)	\$ 79.00
T3RETRACT	T3 Series Retractable Strap Kit	\$ 49.00
T3STRAPKIT	T3 Series Side Strap Kit	\$ 29.00
T3COMBOSTRAP	T3 Series Combination Wrist and Gear Strap	\$ 39.00
T3WINDOW	T3 Series Display Window Cover	\$ 43.00
T3CHARGERBASE	T3 Series Charger Base	\$ 149.00
T3NIMH	T3 Series NiMH Rechargeable Battery	\$ 109.00
T3PMKIT	T3 Series Preventative Maintenance Parts Kit	\$ 159.00
TIPMT3	T3 Series Preventative Maintenance Service (No Discount Available)	\$ 699.00
ACADAPTOR	AC Adaptor	\$ 25.00
CARADAPTOR	DC (Car) Adaptor	\$ 25.00
T3GLARESHIELD	T3 Series Glare Shield	\$ 135.00
LCDGUARD	T3 Series Display Guard	\$ 22.00

Should you have any questions or require additional information do not hesitate to contact me.

Respectfully,

Steve Demas  
Vice President

570 E. North Frontage Road Bolingbrook, IL 60440 Phone 630-633-5000 Fax 630-633-5555



**2006 MSRP Pricing**

**Effective: February 1, 2006**  
**Expires: January 31, 2007**

Part Number	Description	2006 MSRP
<b><u>TI Commander Thermal Imagers, Accessories, and Replacement Parts</u></b>		
CMDRED	TI Commander, Red Housing	\$ 14,999.00
CMDBLUE	TI Commander, Blue Housing	\$ 15,249.00
CMDYLW	TI Commander, Yellow Housing	\$ 15,249.00
CMDLYW	TI Commander, Lime Yellow Housing	\$ 15,249.00
CMDWHT	TI Commander, White Housing	\$ 15,249.00
CMDBLK	TI Commander, Black Housing	\$ 15,249.00
CMDORG	TI Commander, Orange Housing	\$ 15,249.00
CMDFFRED	TI Commander Full-Featured, Red Housing	\$ 17,749.00
CMDFFBLUE	TI Commander Full-Featured, Blue Housing	\$ 18,249.00
CMDFFYLW	TI Commander Full-Featured, Yellow Housing	\$ 18,249.00
CMDFFLYW	TI Commander Full-Featured, Lime Yellow Housing	\$ 18,249.00
CMDFFWHT	TI Commander Full-Featured, White Housing	\$ 18,249.00
CMDFFBLK	TI Commander Full-Featured, Black Housing	\$ 18,249.00
CMDFFORG	TI Commander Full-Featured, Orange Housing	\$ 18,249.00
PERSONALIZEDSTRAP	TI Commander Personalized Strap	\$ 49.00
CMDEXT	TI Commander 1 Year Extended Warranty	\$ 1,100.00
CMDUPGRADE	TIx Upgrade to TI Commander Base Unit	\$ 2,595.00
CMDZOOM	TI Commander 2X Digital Zoom	\$ 500.00
CMDCAPTURE	TI Commander Digital Image Capture	\$ 1,000.00
CMDRHI	TI Commander Relative Heat Indicator	\$ 1,500.00
CMDGRAPH	TI Commander Text Startup Graphics	\$ 150.00
CMDCUSTGRAPH	TI Commander Custom Logo Startup Graphics	\$ 250.00
CMDTRANS	TI Commander 4 Channel Transmitter and Receiver	\$ 3,400.00
CMDTRANS2	TI Commander 2 Channel Transmitter and Receiver	\$ 3,400.00
CMDTRANSONLY	TI Commander 4 Channel Transmitter Only	\$ 1,600.00
CMDTRANSONLY2	TI Commander 2 Channel Transmitter Only	\$ 1,600.00
CMDRCACABLE	TI Commander Video-Out Cable	\$ 99.00
CMDTRUCKMNT	TI Commander Vehicle Charging Mount	\$ 449.00
TIGLARESHIELD	TI Commander Glass Shield	\$ 89.00
TRIPOD	TI Commander Tripod System	\$ 359.00
CLAMP	TI Commander Clamp System	\$ 289.00
BATTERYNIMHULTRA	TI Commander Rechargeable Ultra NiMH Battery	\$ 135.00
CMDCCABLE	TI Commander Direct Charge Cable	\$ 89.00
CMDDATACABLE	TI Commander Image Capture Download Cable	\$ 119.00
DUALCHARGERBASE	TI Commander Dual Charger Base	\$ 249.00
ACADAPTOR	AC Adaptor	\$ 25.00
CARADAPTOR	DC (Car) Adaptor	\$ 25.00
BUMPERKIT	TI Commander Bumper Kit	\$ 15.00
SHSTRAP	TI Commander Shoulder Strap	\$ 59.00
STRAPKIT	TI Commander Top and Side Straps	\$ 59.00
CMDWINDOW	TI Commander Display Cover Window	\$ 49.00
CMDKIT	TI Commander Preventative Maintenance Parts Kit	\$ 239.00
TIPCMD	TI Commander Preventative Maintenance Service	\$ 899.00
<b><u>T3 Series Thermal Imagers, Accessories, and Replacement Parts</u></b>		
T3MAX2RED	T3MAX, Red Housing	\$ 11,999.00
T3MAX2BLUE	T3MAX, Blue Housing	\$ 12,249.00
T3MAX2LYW	T3MAX, Lime Yellow Housing	\$ 12,249.00
T3MAX2YLW	T3MAX, Yellow Housing	\$ 12,249.00
T3MAX2WHT	T3MAX, White Housing	\$ 12,249.00
T3MAX2ORG	T3MAX, Orange Housing	\$ 12,249.00

Part Number	Description	2006 MBRP
T3MAX2BLK	T3MAX, Black Housing	\$ 12,249.00
T3CASEUPGRADE	Upgrade T3 Series Case to Hard Carrying Case	\$ 225.00
T3PERSONALSTRAP	T3 Series Personal Strap	\$ 49.00
T3MAXEXT	T3MAX 1 Year Extended Warranty	\$ 1,000.00
T3XTLYW	T3XT, Lime Yellow Housing	\$ 9,499.00
T3XTRED	T3XT, Red Housing	\$ 9,749.00
T3XTBLUE	T3XT, Blue Housing	\$ 9,749.00
T3XTYLW	T3XT, Yellow Housing	\$ 9,749.00
T3XTWHT	T3XT, White Housing	\$ 9,749.00
T3XTORG	T3XT, Orange Housing	\$ 9,749.00
T3XTBLK	T3XT, Black Housing	\$ 9,749.00
T3XTEXT	T3XT 1 Year Extended Warranty	\$ 1,000.00
T3LTBLUE	T3LT, Blue Housing	
T3LTLYW	T3LT, Lime Yellow Housing	
T3LTRED	T3LT, Red Housing	
T3LTYLW	T3LT, Yellow Housing	
T3LTWHT	T3LT, White Housing	
T3LTORG	T3LT, Orange Housing	
T3LTBLK	T3LT, Black Housing	
T3LTEXT	T3LT 1 Year Extended Warranty	\$ 1,000.00
T3TRANSONLY	T3 Series 4 Channel Transmitter	\$ 1,600.00
T3TRANSONLY2	T3 Series 2 Channel Transmitter	\$ 1,600.00
T3POWERHOUSE	T3 Series Powerhouse Vehicle Charging Mount	\$ 629.00
T3POWERHOUSEKIT	T3 Series Powerhouse AC/DC Conversion Kit	\$ 85.00
T3HANDLE	T3 Series Attachable Handle	\$ 89.00
T3CASE	T3 Series Hard Storage and Carrying Case	\$ 225.00
T3ALK	T3 Series Alkaline Battery Pack (8 AA Batteries Required)	\$ 79.00
T3RETRACT	T3 Series Retractable Strap Kit	\$ 49.00
T3STRAPKIT	T3 Series Slide Strap Kit	\$ 29.00
T3COMBOSTRAP	T3 Series Combination Wrist and Gear Strap	\$ 39.00
T3WINDOW	T3 Series Display Window Cover	\$ 43.00
T3CHARGERBASE	T3 Series Charger Base	\$ 149.00
T3NIMH	T3 Series NiMH Rechargeable Battery	\$ 109.00
T3PMKIT	T3 Series Preventative Maintenance Parts Kit	\$ 159.00
TIPMT3	T3 Series Preventative Maintenance Service	\$ 699.00
ACADAPTOR	AC Adaptor	\$ 25.00
CARADAPTOR	DC (Car) Adaptor	\$ 25.00
T3GLARESHIELD	T3 Series Glare Shield	\$ 135.00
LCDGUARD	T3 Series Display Guard	\$ 22.00
<b>Thermal Imager Receiver Systems &amp; Parts</b>		
ML1	2 Channel MobileLink with Battery and Charger	\$ 2,499.00
ML2	2 Channel MobileLink (Receiver Only)	\$ 2,199.00
ML3	4 Channel MobileLink with Battery and Charger	\$ 2,499.00
ML4	4 Channel MobileLink (Receiver Only)	\$ 2,199.00
MCC1	2 Channel Mobile Command Center with Recorder and Cassette	\$ 3,999.00
MCC2	2 Channel Mobile Command Center (without Recorder)	\$ 2,499.00
MCC3	4 Channel Mobile Command Center with Recorder and Cassette	\$ 3,999.00
MCC4	4 Channel Mobile Command Center (without Recorder)	\$ 2,499.00
REC	4 Channel Receiver Kit	\$ 1,800.00
REC2	2 Channel Receiver Kit	\$ 1,800.00
OMNI	Omni Directional Antenna Kit	\$ 129.00
OMNIONLY	Omni Directional Antenna (no mounts)	\$ 69.00
MCCANTENNA	Replacement Antenna for Mobile Command Center	\$ 69.00
MLANTENNA	Replacement Antenna for MobileLink	\$ 69.00
<b>TI, Tlx, and MX Accessories and Replacement Parts</b>		
TRANSMITONLY	TI and Tlx 2 Channel Transmitter	\$ 1,600.00
MXTRANSMITONLY	MX 4 Channel Transmitter	\$ 1,600.00
TRUCKMNT	TI, Tlx, and MX Vehicle Charging Mount	\$ 449.00
DKITUPGRADE	TI, Tlx, and MX Direct Charge Port Upgrade	\$ 595.00
BATTERYNIMH	TI, Tlx, and MX NiMH Rechargeable Battery	\$ 109.00
TIWINDOW	TI, Tlx, and MX Display Cover Window	\$ 49.00
BUMPERKIT	TI, Tlx, and MX Bumper Kit	\$ 15.00
TIDCPOWERCORD	TI, Tlx, and MX Direct Charge Cord	\$ 39.00
TIMXPMKIT	TI, Tlx, and MX Preventative Maintenance Parts Kit	\$ 239.00
SINGLECHARGERBASE	Single Charger Base For Use with Non-Direct Charge Systems	\$ 149.00
TIPM	TI, and Tlx Preventative Maintenance Service	\$ 699.00
TIPMMX	MX Preventative Maintenance Service	\$ 699.00

Note: Aftermarket factory installed accessories incur a \$250 retrofit fee

# **Bullard**

It's your life and you're worth it™

In September 1998, Bullard shipped its first thermal imager. Many thousands of units later, we have experienced extensive growth in the scope and complexity of our service process. Recognizing this, Bullard is revamping our service program to better accommodate and even enhance the customer service experience.

## **New Tier Structure**

Bullard is excited to introduce the new Service Tier Program. Under the Service Tier Program, all thermal imager and accessory repairs are categorized into tiers. For instance, service on a Bullard Tix thermal throttle falls into Tier 1, while repair of a transmitter falls under Tier 4. The tier categories are listed below.

- Tier 1 .....Gaskets, Switches, Housings and other Wear Parts
- Tier 2 .....Charging Systems
- Tier 3 .....Display Systems
- Tier 4 .....Transmitter Systems
- Tier 5 .....Engine Systems

## **Up-front Diagnosis**

A unique feature of the new program is Bullard's commitment to diagnosing a repair issue prior to a unit shipping to Bullard. Through a sophisticated decision tree system, a Bullard Customer Service Representative (CSR) will work with distributors and end-users to hone in on the product issue over the phone and assign it to one of the tiers. This process occurs prior to any product returns to Bullard.



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# **BULLARD TOUGH MADE EASY!**

---

## **Easy Return Process**

Upon assigning the appropriate tier, the Bullard CSR will quote a standard list price for the repair corresponding to the tier level and the product (see back of this page for pricing details). The CSR will issue a quote for repair and upon receiving a distributor purchase order, will issue a return authorization number. We'll repair all units within our 48 business hour commitment. To enhance customer convenience, the CSR will make shipping arrangements and send a shipping label via fax or email. Bullard pays for all inbound and outbound thermal imager (UPS Ground) shipping regardless of warranty status.\* Emails will notify users when a unit arrives and when it ships back to the customer.

## **New Service Tier Program Advantages:**

- Upfront, simplified, predictable pricing
- **Free shipping** inbound and outbound on every order
- **Complimentary strap and display cover replacement** on every order
- Lifetime housing warranty
- **Free housing replacement** on service over \$1,000
- Email communications throughout the process
- **48 business hour turnaround** on all thermal imagers

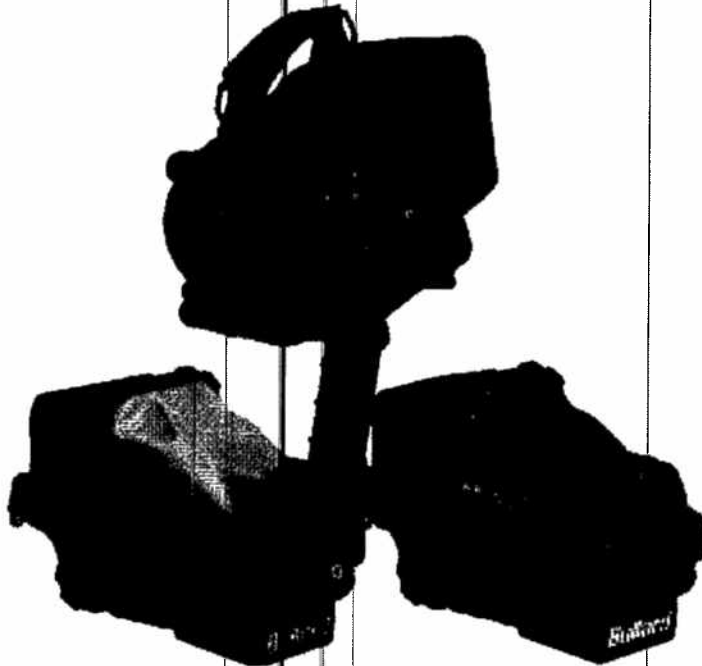
\* Previously, Bullard paid only outbound UPS Red shipping for thermal imagers under warranty. No other shipping costs were covered.

## Service Tier Program List Pricing:

Product	Tier 1	Tier 2	Tier 3	Tier 4	Tier 5
TI	\$289.99	\$529.99	\$879.99	\$1749.99	\$3749.99
TIX	\$289.99	\$529.99	\$879.99	\$1749.99	\$3549.99
FX	\$289.99	\$529.99	\$879.99	\$1749.99	\$3999.99
CFD	\$289.99	\$529.99	\$1499.99	\$2049.99	\$3199.99
FI	\$289.99	\$419.99	\$529.99	\$1199.99	\$2899.99
FI	\$289.99	\$419.99	\$529.99	\$1199.99	\$2899.99
LI	\$289.99	\$419.99	\$529.99	\$1199.99	\$2899.99
TIMAX	\$289.99	\$419.99	\$529.99	\$1199.99	\$3999.99
LCN17	\$289.99	\$419.99	\$529.99	\$1199.99	\$2899.99
TACSIGHT	\$289.99	\$419.99	\$529.99	\$1199.99	\$2899.99
TIMAX (TT)	\$289.99	\$419.99	\$529.99	\$1199.99	\$3199.99
TEXT	\$289.99	\$419.99	\$529.99	\$1199.99	\$3199.99
MobileLink	\$299.99	n/a	\$649.99	\$999.99	n/a
Mobile Command Cntrl	\$399.99	\$599.99	\$849.99	\$1,299.99	\$2,499.99

## Evaluations:

Out of warranty product requested for evaluation will incur a \$129 non-refundable charge.



**Bullard**  
 1898 Safety Way  
 Cynthia, KY 41031-9303  
 Toll free: +877-BULLARD (285-5273)  
 Tel: +859-234-6616  
 Fax: +859-234-8987  
[www.bullard.com](http://www.bullard.com)

**Bullard GmbH**  
 Hochkreuzallee 36  
 53175 Bonn-Bad Godesberg  
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 Fax: +49 228 931933 50  
[www.bullardextrem.com](http://www.bullardextrem.com)



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 "It's your life and you're worth it" is a trademark of Bullard.  
 8157 (0705)  
 Rev. July 21, 2005

# Bullard®

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Thursday, November 30 2006



Fire and Rescue  
Safety



Thermal  
Imaging

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Regards,

Jimmie Smith  
National Sales Manager

00: Ed L - 370 90.  
DEC -7 2006



December 4, 2006

Debbie Smith  
 Chicago Fire Department  
 1044 North Orleans  
 Chicago, IL. 60610

Debbie,

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Respectfully,

Steve Demas  
 Vice President

570 E. North Frontage Road Bolingbrook, IL 60440 Phone 630-633-5000 Fax 630-633-5555