

# Staff Summary Report



**Council Meeting Date:** 03-20-2008

**Agenda Item Number:** \_\_\_\_\_

**SUBJECT:** Request to award a ten-month, sole source contract to Thermo Fisher Scientific for RadEye personal radiation dosimeter, radiation detection and identification instruments, accessories and warranties for the Tempe Fire Department and four (4) other Valley fire departments funded through a federal grant.

**DOCUMENT NAME:** 20080320fslg05 **PURCHASES (1004-01)**

**SUPPORTING DOCS:** Yes

**COMMENTS:** (Sole Source #T08-096-01) Total cost for this contract shall not exceed \$833,000 during the contract period.

**PREPARED BY:** Lisa Goodman, CPPB, Procurement Officer, 480-350-8533

**REVIEWED BY:** Michael Greene, CPM, Central Services Administrator, 480-350-8516  
Cliff Jones, Fire Chief, 480-858-7201

**LEGAL REVIEW AS  
TO CONTRACT FORM**

**ONLY:** David Park, Assistant City Attorney, 480-350-8907

**FISCAL NOTE:** Sufficient funds have been appropriated in 2393-7511 and the 2007 State Homeland Security Grant Program (SHSGP) for \$784,000.

**RECOMMENDATION:** Award the contract.

**ADDITIONAL INFO:** The Tempe Fire Department uses these instruments for personal radiation exposure monitoring, radiation release detection and identification of specific radioactive materials as part of the WMD response program. Thermo Fisher Scientific is the only vendor that makes detectors with the ability to instruct the user whether the radiation source is artificial (man-made) or naturally occurring. Thermo Fisher Scientific only sells their products direct and does not use distributors.

The Fire Departments of Mesa, Chandler, Phoenix, and Glendale also use the Thermo Fisher Scientific radiation detection instruments. With five core cities using the same instruments, compatibility, training, and response work is consistent amongst the cities.

Also, approximately \$604,000 of items purchased on this contract will be for the above mentioned cities. The City of Tempe will then act as an agent to purchase and distribute the equipment to other cities as outlined in the grant award.

## Memorandum

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TO: Lisa Goodman,  
Procurement Officer

FM: Cliff Jones  
Name of Department Head

Date 1-29-08

### **SUBJECT: Sole Source Determination**

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As Head of the City Department for which the needed item(s) will be purchased, I have made a determination that only one (1) reasonable and practicable source exists to supply the required material. As such, I am authorizing the City Procurement Office to work with my Department to negotiate an acceptable contract with:

Thermo Scientific  
Name of Supplier

Description of Item(s) to be purchased:

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*This is for the purchase of 270 RadEye PRD socket-sized personal radiation detectors. These devices are currently being used by the Tempe Fire Department at special events to detect radioactive sources as part of our WMD response program. Only Thermo Scientific makes detectors that have the ability to instruct the user on whether the nature of the alarming radiation is from either an artificial source (man-made) or a naturally occurring source of radiation (NORM). Further, the interceptor used has unique features that include the use of a special spectrometer element, Cadmium Zinc Telluride (CZT). CZT has the characteristic of providing resolution of  $\leq 3\%$  over the entire energy range and proprietary analytical technique known as NBR (Natural Background Rejection) for a quick determination of the nature of the incident radiation prior to running the identification program.*

*In addition to the RadEye PRD personal radiation detectors, eight (8) FBH-40 units and eight (8) Identifinders will be purchase; both of these models are also manufactured by Thermo Scientific. Both the FBH-40 and Identifinder are also sole source. The Tempe Fire and Police Departments both have purchased these instruments in the past and members of the Hazardous Materials Response Team and Explosive Ordinance Disposal Unit are trained in the proper use of these instruments. The Fire Departments of Mesa, Chandler, Phoenix, and Glendale also use these instruments. With five core cities using the same instruments, compatibility, training, and response work is consistent amongst the cities. The FBH-40 is the only radiation detection system on the market that has the ability of the instrument to indicate to the user that the*

*nature of the incident radiation is from either Artificial (man-made) or NORM (naturally occurring) isotopes. The Identifinder is the only radiation detection system that has the ability to determine which radioactive isotope is involved in a release.*

*Thermo Scientific only sells their products direct and does not use a vendor system. Therefore this purchase can only be made from this sole source.*

*The City of Tempe Fire Department will act as an agent to purchase and distribute the equipment to other cities as outlined in the grant award. Further the City of Tempe Fire Department will require other cities' representatives to sign indemnity agreements releasing the City of Tempe of any liability upon receipt of the items.*

Refer to Requisition No. \_\_\_\_\_, dated \_\_\_\_\_ which has been transmitted to the City Procurement Office to initiate this Sole Source purchase.

My (customer) department contact for this purchase is Tom Abbott at Ext. 7219.

My Sole Source determination is based upon extensive research conducted by my department as to possible suppliers for this need and a written justification is attached for City Procurement Office records.

As related to this purchase, there are no conflicts of interest, legal, ethical or preference issues which would compromise my (customer) department or this acquisition.

Department Head's Signature  Date 1-29-08

City Procurement Ordinance 97.55, Sec. 26A-12 identifies the basis for a sole source procurement as follows:

"A purchase may be made or contract awarded by the procurement office without competition when the using department director determines in writing, after conducting a good faith review of available sources, that there is only one reasonable and practicable source for the required material or service. The using department requesting the sole source procurement shall provide written evidence to support a sole source determination. The procurement officer will participate with the using department in the conduct of negotiations, as appropriate, to price, delivery and terms. The procurement officer may require the submission of cost or pricing data in connection with a purchase or award under this section. Sole source procurement shall be avoided, except when no reasonable alternative sources exist. A record of sole source procurements shall be maintained as a public record."

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**Purchase Agreement #08-096**

This Agreement is attached to the Sole Source Contract Award Notice and made a part thereof and is entered into by the City of Tempe (the "City") and Thermo Fisher Scientific ("Contractor").

The parties agree as follows:

**1. Products:**

Contractor shall provide the following equipment to the City as identified below and incorporated by reference:

Ln #	Qty	Part Number	Description	Unit Price	Ext. Price
1.	273	4250671	RadEye PRD, Pocket-sized personal radiation detector	\$1,480.00	\$404,040.00
2.	273	425067046	Holster for RadEye PRD, N, NL, G and G-10 versions. Sized to insert instrument with rubber shock protection	\$25.00	\$6,825.00
3.	9	4254004	FH 40 G-L Radiameter, calibration factor and display units selectable via PC-program "cal40G".	\$1,966.00	\$17,694.00
4.	9	4254061	FHZ 672E NBR-Detector for sensitive detection of artificial sources in fluctuating natural radiation fields, aluminum housing, with handle and holder for FH 40G as described in Technical Specification ZT-004	\$5,613.00	\$50,517.00
5.	9	425400045	Spiral cable 0.3m, stretches to 1.2m	\$241.00	\$2,169.00
6.	8	INT-GNid	Interceptor with CZT finder detectors, high resolution CZT identification detectors, with 3He neutron detector	\$10,995.00	\$87,960.00
Equipment Sub Total					\$569,205.00
7.	273	RadeyePRD-DS3	3 Year Enhanced Depot Service Warranty for Radeye PRD (does NOT include Calibration)	\$374.00	\$102,102.00
8.	9	FH40GL-DS2	3 Year Enhanced Depot Service Warranty (includes Calibration) for FH40GL	\$1,212.00	\$10,908.00
9.	9	FHZ672E-DS2	3 Year Enhanced Depot Service Warranty (includes Calibration) for FHZ 672E	\$1,718.00	\$15,462.00
10.	8	INT-GN-DS2	3 Year Enhanced Depot Service Warranty (includes Calibration) for Interceptor GN models	\$3,124.00	\$24,992.00
Warranty Sub Total					\$153,464.00
Thermo Fisher Scientific does not collect tax, to be paid direct by customer. Tax					31,875.48
<b>TOTAL</b>					<b>\$754,544.48</b>

*Additional products may be procured in accordance with attached pricing document (Exhibit A-1).*

- 2. Price:** Total value of the agreement shall not exceed \$833,000. A detailed listing of contracted items and pricing is attached to this Agreement in Exhibit A.
- 3. Term of Agreement:** The term of this Agreement shall commence on March 10, 2008 and shall expire December 31, 2008.

4. **Agreement Termination:** At any time prior to the delivery of the product, this Agreement may be terminated without default by either party by providing a written thirty (30)-day notice of termination to the other party. This provision is not applicable after performance by either party.
5. **Default Provisions:** The City reserves the right to immediately cancel the whole or any part of this agreement due to failure of the Contractor to carry out any obligation, term, or condition of the agreement. The City will issue a written notice of default effective at once and not be deferred by any interval of time. Default shall be for acting or failing to act as in any of the following:
  - A. The Contractor provides material that does not meet the specifications of the agreement;
  - B. The Contractor fails to adequately perform the services set forth in the specifications of the agreement;
  - C. The Contractor fails to complete the work required or furnish the materials required within the time stipulated in the agreement;
  - D. The Contractor fails to make progress in the performance of the agreement and/or gives the City reason to believe that the Contractor will not or cannot perform to the requirements of the agreement.

The City may resort to any single or combination of the following remedies:

- A. Cancel this agreement;
  - B. Reserve all rights or claims to damage for breach of any covenants of the agreement;
  - C. Perform any test or analysis on materials (equipment/products) for compliance with the specifications of the agreement. If the results of any test or analysis find a material non-compliance with the specifications, the Contractor hereby expressly agrees that the actual expense of testing will be borne by the Contractor;
  - D. In case of default, the City reserves the right to purchase materials and/or services from another source, or to complete the required work in accordance with the needs of the City. The City may recover any actual excess costs from the Contractor by:
    - i) Deduction from an unpaid balance;
    - ii) Collection against the bid and/or performance bond, or;
    - iii) Any combination of the above or any other remedies as provided by law.
6. **Applicable Law:** This Agreement shall be governed by, and the City and Contractor shall have all remedies afforded each by the Uniform Commercial Code, as adopted in the State of Arizona, except as otherwise provided in this resultant Agreement or in statutes or ordinances pertaining specifically to the City. This Agreement shall be governed by State of Arizona law and suits pertaining to this Agreement may only be brought in courts located in Maricopa County, Arizona.
  7. **Shipping Terms:** Prices shall be F.O.B. Destination to the delivery location(s) designated herein. Contractor shall retain title and control of all goods until they are delivered and the Agreement of coverage has been completed. All risk of transportation and all related charges shall be the responsibility of the Contractor. The City will notify the Contractor promptly of any damaged materials and shall assist the Contractor in arranging for inspection.
  8. **Warranty Statement:** Contractor must provide a complete and exclusive statement of the product warranty. Warranty offers will be relatively considered as appropriate to life cycle costing.
  9. **Infringement of Patent or Copyright:** The Contractor agrees to save, keep, hold harmless and fully indemnify the City and any of its officers and employees from any and all damages, costs, or expenses in law or equity, that may at any time arise out of or be set up for any infringement of the patent right, copyright, intellectual property or trademark of any person, persons, or entity in consequences of use by the City, or by any of its officers, or agents or employees of Contractor supplied materials and of which the Contractor is not a patentee or signee or lawfully entitled to sell or use or provide the same.

Contractor (Seller) agrees to fully indemnify and hold harmless the City (buyer) from any and all license, royalty and proprietary fees or costs, including legal costs, which may arise out of the City's (buyer's) purchase and use of goods, including software, supplied by Contractor (seller).

It is expressly agreed by seller that these covenants are irrevocable and perpetual.

10. **Insurance:** Prior to commencing services under this Agreement, Contractor shall procure and maintain for the duration of the Agreement insurance against claims for injuries (including death) to persons and damages to property, which may arise from or in connection with the performance of the work hereunder by the Contractor, its agents, representatives, employees, subcontractors, or sub-subcontractors.

A Contract Award Notice or Purchase Order will not be issued to an awarded vendor until receipt of all required insurance documents by the City Procurement Office and such documents must meet all requirements of this Insurance clause. In addition, before any Agreement is renewed for additional time periods, all required insurance must be in force and on file with the City Procurement Office. An awarded vendor or Contractor must submit required insurance within ten (10) calendar days after request by the City Procurement Office or the award may be rescinded and another vendor selected for award.

#### **Minimum Limits of Insurance**

Contractor shall maintain limits no less than:

1. Commercial General Liability: \$1,000,000 combined single limit per occurrence for bodily injury and property damage, including coverage for contractual liability (including defense expense coverage for additional insureds), personal injury, broad form property damage, products and completed operations and product liability. The general aggregate limit shall apply separately to this project/location or the general aggregate shall be twice the required occurrence limit.
2. Automobile Liability: \$1,000,000 combined single limit per accident for bodily injury and property damage, including coverage for owned, hired, and non-owned vehicles as applicable.
3. Workers' Compensation and Employers Liability: Workers' Compensation and Employers Liability statutory limits as required by the State of Arizona.
4. Other Insurance: (If applicable, see supplement.)

#### **Deductibles And Self-Insured Retentions**

Any deductibles or self-insured retentions must be declared and approved by the City. At the option of the City, either the insurer shall reduce or eliminate such deductibles or self-ensured retentions as respects the City, its officials, employees, and volunteers, or the Contractor shall procure a bond guaranteeing payment of losses and related investigations, claims administration, and defense expenses.

#### **Other Insurance Provisions**

The policies or self insurance certifications are to contain, or be endorsed to contain, the following provisions:

1. Commercial General Liability and Automobile Liability Coverage:
  - a. The City, its officials, employees, and volunteers are to be covered as additional insureds as respects: liability arising out of activities performed by or on behalf of the Contractor including the insured's general supervision of the Contractor; products and completed operations of the Contractor; premises owned, occupied or used by the Contractor, or automobiles owned, leased, hired or borrowed by the Contractor. The coverage shall contain no special limitations on the scope of protection afforded to the City, its officials, employees, or volunteers, for work related to the Contractors, employees, agents, subcontractors, or sub-subcontractors activities.

- b. The Contractor's insurance coverage shall be primary as respects the City, its officials, employees, and volunteers. Any insurance or self-insurance maintained by the City, its officials, employees, or volunteers shall be excess of the Contractor's insurance and shall not contribute to it.
- c. Any failure to comply with reporting provisions of the policies shall not affect coverage provided to the City, its officials, employees, or volunteers.
- d. Coverage shall state that the Contractor's insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability.

2. Workers' Compensation and Employers Liability Coverage

The insurer shall agree to waive all rights of subrogation against the City, its officials, employees and volunteers for losses arising from work performed by the Contractor for the City.

3. All Coverages

Each insurance policy required by this Agreement shall be endorsed to state the coverage shall not be suspended, voided, and/or canceled by either party, reduced in coverage or in limits except after thirty (30) days prior written notice by certified mail, return receipt requested, has been given to the City.

**Other Insurance Requirements:** Contractor shall:

1. Prior to commencement of services, furnish the City with certificates of insurance, in form and with insurers acceptable to the City which shall clearly evidence all insurance required in this Agreement and provide that such insurance shall not be canceled, allowed to expire or be materially reduced in coverage except on 30 days prior written notice to and approval by the City, and in accord with stated insurance requirements of this bid solicitation. City shall not be obligated, however, to review same or to advise Contractor of any deficiencies in such policies and endorsements, and such receipt shall not relieve Contractor from, or be deemed waiver of City's right to insist on, strict fulfillment of Contractor's obligations under this Agreement.
2. Provide certified copies of endorsements and policies if requested by the City in lieu of or in addition to certificates of insurance.
3. Replace certificates, policies, and endorsements for any such insurance expiring prior to completion of services.
4. Maintain such insurance from the time services commence until services are completed. Should any required insurance lapse during the Agreement term, requests for payments originating after such lapse shall not be processed until the City receives satisfactory evidence of reinstated coverage as required by this Agreement, effective as of the lapse date. If insurance is not reinstated, City may at its sole option, terminate this Agreement effective on the date of such lapse of insurance.
5. Place such insurance with insurers and agents licensed and authorized to do business in Arizona and having a "Best's" rating of no less than A-VII.
6. Maintain such coverage continuously throughout the term of this Agreement and without lapse for a period of two years beyond the Agreement expiration, should any of the required insurance be provided under a claims-made form, to the extent that should occurrences during the Agreement term give rise to the claims made after expiration of the Agreement, such claims shall be covered by such claims-made policies. Such extension of coverage shall be evidenced by annual certificates of insurance.

### **Subcontractors and Sub-Subcontractors**

Contractor shall include all subcontractors and sub-subcontractors as insureds under its policies or shall furnish separate certificates and endorsements for each subcontractor and sub-subcontractor. All coverage for subcontractors and sub-subcontractors shall be subject to all of the requirements stated herein for the Contractor.

### **Safety**

The Contractor shall be solely and completely responsible for conditions of the job site, including safety of all persons (including employees) and property during performance of the work. This requirement shall apply continuously and not be limited to normal working hours. Safety provisions shall conform to all applicable federal (including OSHA), state, county, and local laws, ordinances, codes, and regulations. Where any of these are in conflict, the more stringent requirement shall be followed. The Contractor's failure to thoroughly familiarize itself with the aforementioned safety provisions shall not relieve it from compliance with the obligations set forth therein.

11. **Performance Standards:** Equipment shall operate in accordance with the performance criteria specified in the Contractor's literature, including the manufacturer's published specifications applicable to the machine involved. Each machine is expected to be available for productive use, as provided in the procurement documents. Penalties and/or bonuses applicable to machine and system performance (down time and up time) shall be calculated as may be provided in the procurement documents.
12. **Payments - After Acceptance of Delivery:** Payment in full shall be made to the successful Contractor within thirty (30) days after receipt and acceptance of delivery by the City. Unless terms other than net thirty (30) days are offered as a discount.
13. **Indemnification:** To the fullest extent permitted by law, the Contractor shall defend, indemnify and hold harmless the City, its agents, officers, officials, employees and volunteers from and against all claims, damages, losses and expenses (including but not limited to attorney's fees, court costs, and the costs of appellate proceedings), arising out of, or alleged to have resulted from the negligent acts, errors, mistakes, omissions, work, services, or professional services of the Contractor, its agents, employees, or any other person (not the City) for whose acts, errors, mistakes, omissions, work, services, or professional services the Contractor may be legally liable in the performance of this Agreement. The Contractor's duty to hold harmless and indemnify the City, its agents, officers, officials, employees and volunteers shall arise in connection with any claim for damage, loss or expenses that is attributable to bodily injury, sickness, disease, death, or injury to, impairment, or destruction of any person or property, including loss of use resulting there from, caused by any negligent acts, errors, mistakes, omissions, work, services, or professional services in the performance of this Agreement by the Contractor, or any employee of the Contractor, or any other person (not the City) for whose negligent acts, errors, mistakes, omissions, work, or services the Contractor may be legally liable. The amount and type of insurance coverage requirement set forth herein will in no way be construed as limiting the scope of indemnity in this paragraph.
14. **Unauthorized Firearms & Explosives:** No person conducting business on City property is to carry a firearm or explosive of any type. Any City bidder, Contractor or Subcontractor is to honor this requirement at all times and failure to honor this requirement will result in agreement cancellation. This requirement also applies to persons who maintain a concealed weapons permit. In addition to agreement cancellation anyone carrying a firearm or explosive device will be subject to police and legal action.
15. **Whole Agreement:** This Agreement (including Exhibits A and B) represents the parties' whole Agreement. There are no other promises, terms, conditions or obligations, and this Agreement shall supersede all previous communications, representations or agreements, either verbal or written.
16. **Construction:** This Agreement shall be governed by and construed in accordance with the laws of the State of Arizona.

17. **Nondiscrimination:** The parties agree to comply with all applicable state and federal laws, rules, regulation and executive orders governing equal employment opportunity, immigration, nondiscrimination, including the Americans with Disabilities Act, and affirmative action.
19. **Conflict of Interest:** This Agreement is subject to Section 38-511, Arizona Revised Statutes. This agreement may be canceled if any person significantly involved in initiating, negotiating, securing, drafting or creating this Agreement on behalf of the City is an employee, consultant, or agent of any other party to this Agreement.
20. **Arbitration:** Notice is provided of Sections 12-1518 and 12-133. Arizona Revised Statutes.
21. **Dispute Resolution:** If a dispute arises under this Agreement, the parties agree to exhaust all applicable administrative remedies provided for under Arizona Law.
22. **Contractor's Records:** To the extent required by Section 35-214, Arizona Revised Statutes, Contractor agrees to retain all records relating to this Agreement. Contractor agrees to make those records available at all reasonable times for inspection and audit by the Auditor of the City of Tempe during the term of this Agreement and for a period of five (5) years after the completion of this Agreement.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement, this the \_\_\_\_ day of \_\_\_\_\_, 2008.

CITY OF TEMPE

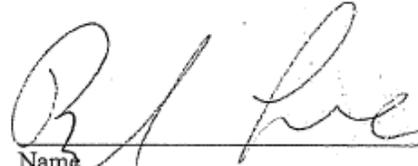
By \_\_\_\_\_  
Mayor

ATTEST:

\_\_\_\_\_  
City Clerk

APPROVED AS TO FORM:

\_\_\_\_\_  
City Attorney

  
Name 2/20/08  
Contract Administrator  
Title  
Thermo Eberline LLC  
Name of Company

**Purchase Agreement #08-096  
EXHIBIT A-1**

**2007 RMP Domestic US Price List**



Item #

**Price List: RadEye**

**RadEye, New Generation of Advanced Pocket-Size Radiation Meters**

**RadEye Series, dim. 97 x 60 x 30 mm (approx. 4 x 2.5 x 1"), 160 g (0.5 lb) incl. 2 AAA-cells, 600 h operation time; earphone output, DC-Input for use with rechargeable batteries, extra rubber shock protection (weighs 30 g) included**

**1 Part Number: 4250674**  
**Description:** RadEye G, Pocket-sized wide range survey meter: energy compensated GM-tube, 45 keV - 1.3 MeV; measuring range 5  $\mu$ R/h - 10 R/h; high sensitivity: 17 cps per mR/h, 2 dose and dose rate alarm levels; black label

1-9	10-49	50-99	100-299
\$720.00	\$850.00	\$610.00	\$575.00

**2 Part Number: 425087401**  
**Description:** RadEye G, Pocket-sized wide range survey meter: energy compensated GM-tube, 45 keV - 1.3 MeV; measuring range 5  $\mu$ R/h - 10 R/h; high sensitivity: 17 cps per mR/h, 2 dose and dose rate alarm levels; yellow label

1-9	10 to 49	50-99	100-299
\$720.00	\$650.00	\$510.00	\$575.00

**3 Part Number: 4250676**  
**Description:** RadEye G-10, Pocket-sized wide range survey meter: energy compensated GM-tube according H\*(10): 45 keV - 1.3 MeV; measuring range 0.05  $\mu$ Sv/h - 100 mSv/h; high sensitivity: 1.7 cps per  $\mu$ Sv/h; 2 dose and dose rate alarm levels; red label

1-9	10-49	50-99	100-299
\$780.00	\$700.00	\$685.00	\$625.00

**4 Part Number: 425067602**  
**Description:** RadEye G-10, Pocket-sized wide range survey meter: energy compensated GM-tube according H\*(10): 45 keV - 1.3 MeV; measuring range 0.05  $\mu$ Sv/h - 100 mSv/h; high sensitivity: 1.7 cps per  $\mu$ Sv/h; 2 dose and dose rate alarm levels, white label

1-9	10-49	50-99	100-299
\$780.00	\$700.00	\$665.00	\$625.00

**5 Part Number: 4250671**  
**Description:** RadEye PRD, Pocket-sized personal radiation detector: NaI(Tl)-det. with PMT, gamma detection from 30 keV; energy compensated dose rate calculation (60 keV - 1.3 MeV); measuring range 1  $\mu$ R/h - 25 mR/h; 1.5 cps per  $\mu$ R/h (Cs-137); 30 cps per  $\mu$ R/h for Am-241

1-29	30-99	100-299	300+
\$1,590.00	\$1,515.00	\$1,480.00	\$1,405.00

**6 Part Number: 425067120**  
**Description:** RadEye PRD, Pocket-sized personal radiation detector: NaI(Tl)-det. with PMT, gamma detection from 30 keV; H\*(10) energy comp. dose rate calc. (60 keV - 1.3 MeV); meas range 0.01  $\mu$ Sv/h - 250  $\mu$ Sv/h; 150 cps per  $\mu$ Sv/h (Cs-137); 2000 cps per  $\mu$ Sv/h (Am-241)

1-29	30-99	100-299	300+
\$1,560.00	\$1,515.00	\$1,480.00	\$1,405.00

**7 Part Number: 4250677**  
**Description:** RadEye N, Neutron pocket meter with excellent gamma rejection, He-3 tube with 10 bar, must not be taken on board of an airplane

1-29	30-99	100-299	300+
\$1,750.00	\$1,695.00	\$1,590.00	\$1,575.00

**8 Part Number: 4250670**  
**Description:** RadEye NL, Neutron pocket meter with excellent gamma rejection, He-3 tube with 2.5 bar, can be taken on board of an airplane

1-29	30-99	100-299	300+
\$1,550.00	\$1,600.00	\$1,565.00	\$1,465.00

**Purchase Agreement #08-096  
EXHIBIT A-1**

**Accessories for all RadEye versions**

9	<b>Part Number:</b> 4250680 <b>Description:</b> RadEye Area Monitor:(RadEye sold separately); Enclosure w/ transparent door; Car Adaptor; AC/DC Adapter w/ 2 m cable & Bulgin connector; Red Light on enclosure top; RS 232 interface 9 pin D-SUB connector (water/light); Bulgin connector for ext. Alarm unit	<b>Price</b> \$680.00
10	<b>Part Number:</b> 425068010 <b>Description:</b> Additional External Alarm Unit consisting of: 5 m cable with Bulgin connector fitting to connector at 4250680; Small box with latching relay and acknowledge button; 5 m cable between box and horn+strobe; Red strobe - horn with wall mount holder	<b>Price</b> \$590.00
11	<b>Part Number:</b> 425067046 <b>Description:</b> Holder for RadEye units. Sized to insert instrument w/ rubber shock protection.	<b>Price</b> \$25.70
12	<b>Part Number:</b> 425067080 <b>Description:</b> Desktop holder for RadEye (data cable not included)	<b>Price</b> \$36.00
13	<b>Part Number:</b> 4254029 <b>Description:</b> Data cable RS 232 for FH 40 G and RadEye desktop holder	<b>Price</b> \$204.00
14	<b>Part Number:</b> 425067059 <b>Description:</b> Flat mounting kit, including plates for screw- and adhesive mounting; fits to docking station 425067068 or desktop holder 425067060	<b>Price</b> \$26.00
15	<b>Part Number:</b> 425067061 <b>Description:</b> Goose neck screw-mounting kit, fits to docking station 425067065 or desktop holder 425067060	<b>Price</b> \$37.00
16	<b>Part Number:</b> 425067062 <b>Description:</b> Pivot arm screw-mounting kit, fits to docking station 425067065 or desktop holder 425067060	<b>Price</b> \$40.00
17	<b>Part Number:</b> 425067063 <b>Description:</b> Knuckle joint screw-mounting kit, fits to docking station 425067065 or desktop holder 425067060	<b>Price</b> \$30.00
18	<b>Part Number:</b> 425067064 <b>Description:</b> Goose neck mounting kit with suction cup for instantaneous attachment to the windshield, fits to docking station 425067065 or desktop holder 425067060	<b>Price</b> \$44.90
19	<b>Part Number:</b> 425067065 <b>Description:</b> Docking station ("car adaptor") with charging circuitry (8-30 V DC, cigarette lighter plug), alarm relay and RS 232 interface 2 ea. AAA NiMH rechargeable batteries included	<b>Price</b> \$300.00

**Purchase Agreement #08-096**  
**EXHIBIT A-1**

20	<b>Part Number:</b> 425057068 <b>Description:</b> AC/DC converter for AC-supply of docking station 425067065 (100 – 240 V AC; 24 V DC, 600 mA), US, UK, EU connector	<b>Price</b> \$55.00
21	<b>Part Number:</b> SM168535251 <b>Description:</b> RS 232 to USB adapter for data cable 4254029, docking station 425067065 and area monitor 425067080	<b>Price</b> \$37.20
22	<b>Part Number:</b> 4254026 <b>Description:</b> Data cable USB for FH 40 G or RadEye desktop holder 425057060	<b>Price</b> \$204.00
23	<b>Part Number:</b> SM168535226 <b>Description:</b> RS 232 Adapter cable, 9 pin, 6 m. fits to docking station 425067065 and area monitor 425067080	<b>Price</b> \$16.00
24	<b>Part Number:</b> 425057044 <b>Description:</b> Safety-Lanyard for RadEye	<b>Price</b> \$16.80
25	<b>Part Number:</b> 425069951 <b>Description:</b> User Software "RadEye.Exe"	<b>Price</b> \$205.00
26	<b>Part Number:</b> 425069952 <b>Description:</b> Calibration Software "Cal-RadEye.Exe"	<b>Price</b> \$247.00
27	<b>Part Number:</b> 425067037 <b>Description:</b> Earphone for RadEye series	<b>Price</b> \$29.80

**Purchase Agreement #08-096  
EXHIBIT A-1**

**2008 Price List for the USA  
Interceptor**



All prices quoted herein are subject to change without prior notice.

Line	Part Number	Description	Quantity	Price
1.		<b>Interceptor - Personal Radiation Detector with isotope identifier capabilities</b>		
2.		All interceptors are delivered with CZT finder detectors, 1 GB memory, voice recorder, a docking clip, a USB cable, a power supply, a battery clip, a manual & software CD, in a Pelican case		
3.	INT-Gld	Interceptor with CZT finder detectors and high resolution CZT identification detectors		\$10,116.00
4.	INT-Gld-B	Interceptor with CZT finder detectors, high resolution CZT identification detectors, with Bluetooth		\$10,644.00
5.	INT-Gld-C	Interceptor with CZT finder detectors, high resolution CZT identification detectors, with camera		\$10,434.00
6.	INT-Gld-BC	Interceptor with CZT finder detectors, high resolution CZT identification detectors, with camera and Bluetooth		\$10,853.00
7.		<b>Interceptor - Personal Radiation Detector with isotope identifier capabilities, with neutron detection capability</b>		
8.	INT-GNld	Interceptor with CZT finder detectors, high resolution CZT identification detectors, with <sup>3</sup> He neutron detector.		\$10,995.00
9.	INT-GNld-B	Interceptor with CZT finder detectors, high resolution CZT identification detectors, <sup>3</sup> He neutron detector, with Bluetooth		\$11,424.00
10.	INT-GNld-C	Interceptor with CZT finder detectors, high resolution CZT identification detectors, <sup>3</sup> He neutron detector, with camera		\$11,314.00
11.	INT-GNld-BC	Interceptor with CZT finder detectors, high resolution CZT identification detectors, <sup>3</sup> He neutron detector, with camera and Bluetooth		\$11,743.00
12.		<b>Interceptor - Personal Radiation Detector with isotope identifier capabilities, with neutron detection capability, special version with low pressure neutron detector meeting IATA requirements</b>		
13.	INT-GNld-L	Interceptor with CZT finder detectors, high resolution CZT identification detectors, low pressure <sup>3</sup> He neutron detector		\$10,995.00
14.	INT-GNld-B-L	Interceptor with CZT finder detectors, high resolution CZT identification detectors, low pressure <sup>3</sup> He neutron detector, with Bluetooth		\$11,424.00
15.	INT-GNld-C-L	Interceptor with CZT finder detectors, high resolution CZT identification detectors, low pressure <sup>3</sup> He neutron detector, with camera		\$11,314.00
16.	INT-GNld-BC-L	Interceptor with CZT finder detectors, high resolution CZT identification detectors, low pressure <sup>3</sup> He neutron detector, with camera and Bluetooth		\$11,743.00
17.		PC Spectrum Analysis Software for use with the Interceptor		
18.	INT-OFT-WIN	Standard MCA program. For external PC/notebook.		\$809.00
19.		ViewPoint Plug-ins		
20.	SYS/1/70853/121	Interceptor plug-in for ViewPoint, price per unit		\$635.00
21.	SYS/1/70853/120	Interceptor plug-in for ViewPoint, price per 10 unit bundle		\$3,180.00
22.	SYS/1/70853/122	Reachback Viewer plug-in for ViewPoint, price per unit		\$5,000.00

## Purchase Agreement #08-096

## EXHIBIT A-1

## 2008 Price List for the USA

## FH 40 G



All prices quoted herein are subject to change without notice.

Line	Part Number	Description	Quantity	Price
1.		<b>FH 40 G Radiometers</b>		
2.	4254002	FH 40 G Radiometer, calibration factor and display units selectable via PC-program "cal40G". Selectable units: Sv/h, R/h, Gy/h. Calibrated in R/h. Measuring range: 10 $\mu$ R/h-99 R/h, 36keV-1.3MeV (Not for sale in UK)		\$2,690.00
3.	425400201	FH 40 G Radiometer, calibration factor and display units selectable via PC-program "cal40G". Selectable units: Sv/h, R/h, Gy/h. Calibrated in Sv/h. Measuring range: 0.1 $\mu$ Sv/h-0.99Sv/h, 36keV-1.3MeV (Not for sale in UK).		\$2,690.00
4.	425400250	FH 40 G Radiometer, calibration factor and display units selectable via PC-program "cal40G": Sv/h, R/h, Gy/h. Calibrated in R/h. Measuring range: 10 $\mu$ R/h-99 R/h, 36keV-1.3MeV, extra earphone connector (Not for sale in UK)		\$2,657.00
5.	425400251	FH 40 G Radiometer, calibration factor and display units selectable via PC-program "cal40G": Sv/h, R/h, Gy/h. Calibrated in Sv/h. Measuring range: 0.1 $\mu$ Sv/h-0.99Sv/h, 36keV-1.3MeV, extra earphone connector (Not for sale in UK)		\$2,657.00
6.	4254004	FH 40 G-L Radiometer, calibration factor and display units selectable via PC-program "cal40G". Selectable units: Sv/h, R/h, Gy/h. Measuring range: up to 10 R/h, Energy range: 36keV-1.3MeV. (Not for sale in UK).		\$1,956.00
7.	425400401	FH 40 G-L Radiometer, calibration factor and display units selectable via PC-program "cal40G". Selectable units: Sv/h, R/h, Gy/h. Calibrated in Sv/h. Measuring range: up to 0.1 Sv/h, Energy range: 36keV-1.3MeV. (Not for sale in UK).		\$1,956.00
8.	425400450	FH 40 G-L Radiometer, calibration factor and display units selectable via PC-program "cal40G". Selectable units: Sv/h, R/h, Gy/h. Calibrated in R/h. Measuring range: up to 10 R/h, Energy range: 36keV-1.3MeV, extra earphone connector (Not for sale in UK).		\$2,043.00
9.	425400451	FH 40 G-L Radiometer, calibration factor and display units selectable via PC-program "cal40G". Selectable units: Sv/h, R/h, Gy/h. Calibrated in R/h. Measuring range: up to 0.1 Sv/h, Energy range: 36keV-1.3MeV, extra earphone connector (Not for sale in UK).		\$2,043.00
10.	4254008	FH 40 G-10 Radiometer energy compensated for ambient dose equivalent H*(10) according to ICRP60/ICRU39. Energy range: 30keV-4.4MeV. Measuring range: up to 1 Sv/h. Export version with selectable calibration factor.		\$2,596.00
11.	425400850	FH 40 G-10 Radiometer energy compensated for ambient dose equivalent H*(10) according to ICRP60/ICRU39. 30keV-4.4MeV, up to 1 Sv/h. Export version with selectable calibration factor, extra earphone connector		\$2,657.00
12.	4254008	FH 40 GL-10 Radiometer energy compensated for ambient dose equivalent H*(10) according to ICRP60/ICRU39. Energy range: 30keV-4.4MeV. Meas.range: up to 100 mSv/h. Export version with selectable calibration factor.		\$1,956.00
13.	425400802	FH 40 GL-10 Radiometer energy compensated for ambient dose equivalent H*(10) according to ICRP60/ICRU39. Energy range: 30keV-4.4MeV. Meas.range: up to 100 mSv/h. Export version with selectable calibration factor. No nanosievert units.		\$1,956.00
14.	425400850	FH 40 GL-10 Radiometer energy compensated for ambient dose equivalent H*(10) according to ICRP60/ICRU39. 30keV-4.4MeV. up to 100 mSv/h. Export version with selectable calibration factor, extra earphone connector		\$2,043.00

Wednesday, December 12, 2007

Portables

**Purchase Agreement #08-096  
EXHIBIT A-1**

**2008 Price List for the USA  
FH 40 G**



All prices quoted here in the subject to change without prior notice

Line	Part Number	Description	Quantity	Price
15.	425400852	FH 40 GL-10 Radiometer energy compensated for ambient dose equivalent H*(10) according to ICRP60/ICRU38, 30keV-4.4MeV, up to 100 mSv/h. Export version with selectable calibration factor, extra earphone connector. No nanosievert units.		\$2,043.00
16.	4254009	FH 40 GL-omega Radiometer special version FH 40 G-L, with connection of earphone or external alarm relays.		\$2,208.00
17.	4254016	FH 40 GL-10-omega Radiometer special version FH 40 GL-10, with connection of earphone or external alarm relays.		\$2,208.00
18.	4254014	FH 40 G-X Display unit (no internal counter tube) all FH 40 G external detectors can be connected to this device. R/h display when used with calibrated probes.		\$1,050.00
19.	425401401	FH 40 G-X Display unit (no internal counter tube) all FH 40 G external detectors can be connected to this device. Sv/h display when used with calibrated probes.		\$1,050.00
20.	425401450	FH 40 G-X Display unit (no internal counter tube) all FH 40 G external detectors can be connected to this device, extra connector for earphone. R/h display when used with calibrated probes.		\$1,050.00
21.		Options for the FH 40 G Series		
22.	4254025	Earphone for 425400250, 425400450, 425400850 and 425401450 (uses additional special connector)		\$108.00
23.	425400910	Earphone for 4254009 and 4254016 (uses external probe connector)		\$98.00
24.	42540010003	Protection foil for keys and acoustic unit (minimum order 5 units), price per unit		\$10.00
25.	SM149142235	Plastic bag transparent, for attachment to a belt (price per unit, minimum order 5 units)		\$5.00
26.	SM149142236	Carrying Bag for FH 40 G made of hard wearing, black nylon material		\$32.00
27.	4254021	Plastic case, large (without content) for taking up FH 40 G, test source with holding device, radio transmitter, cable, plastic bag, floppy disks, 3 external probes (FHZ 512, FHZ 532, FHZ 732)		\$145.00
28.	425406110	Case for System FHT 40 NBR (without content) for taking up FH 40 G, NBR-detector FHZ 672 E, wall mounting holders, DC- and relays module		\$325.00
29.	425403310	Case for System FHT 40 SZ (without content) for taking up FH 40 G, 2"x2"-NaI(Tl)-detector FHZ 502 P or FHZ 502 E with holder, check source FH 36 D		\$317.00
30.	425406120	Case for FH 40 TG teleprobe (without content) Aluminium case, approx. 90 cm x 18 cm x 15 cm		\$519.00
31.	425404101	Wall mounting holder for all FH 40 G versions		\$70.00
32.	KT164600030	Lithium battery 1.5 V, AA-cell, per unit for extended battery life (app. 600 h), 2 pcs. are required, recommended especially for low temperatures;		\$10.00
33.		PC Communications Software and Cables		
34.	A425409901	PC-Program „FH 40 G“ Windows-program for parameter configuration and data transmission.		\$220.00
35.	A425409903	PC-calibration program (Export only for version 42540/02, /04, /05, /08 and external probes), including calibration report generation. For version 42540/02 and /04 also the physical units might be changed.		\$272.00
36.	4254029	PC adapter cable (IR)for FH 40 G with 9pin SUS-D converter		\$216.00

**Purchase Agreement #08-096  
EXHIBIT A-1**

**2008 Price List for the USA  
FH 40 G**



All prices quoted hereafter are subject to change without notice.

Line	Part Number	Description	Quantity	Price
37.	4254025	Data cable USB for FH 40 G or RadEye desktop holder 425007060		\$215.00
38.	SM168536251	RS232 to USB adapter for data cable 4254025		\$41.00
39.		<b>Telescopic Adapters</b>		
40.	4254055	Telescopic adapter for FHZ 512 / 532 1.5 ... 2.7 m, incl. cable and holder, made of aluminium, 2 segments		\$751.00
41.	4254070	Telescopic adapter for FHZ 502 P 1.5 ... 2.7 m, incl. cable and holder, made of aluminium, 2 segments		\$759.00
42.	425405101	Telescope for Radimeter FH 40 G (without detector) for taking up FHZ 512, FHZ 512 A, FHZ 512, FHZ B12-10, FHZ 532 L, FHZ 532 L-10, FHT 752 SH up to 4 m extension, 4 segments glass fibre reinforced		\$1,814.00
43.	425405130	Adapter for FHZ 732 or FHZ 732 GM to telescope 425405101		\$257.29
44.		<b>Holding Devices/Handles for External Probes</b>		
45.	4254071	Holding device for one-handed operation of FHZ 502 P		\$356.00
46.	425403210	FH 40 D Cavity monitoring adapter incl. radioactive source Ba-133, 200 kBq fits to FHZ 512 A		\$1,655.00
47.	425402810	Holder for 1-hand operation of FHZ 512 and FHZ 512 A		\$316.00
48.	425402710	Holder for 1-hand operation of FHZ 512 BGO		\$315.00
49.	FH40GL-DS3	3 Year Extended Depot Service Warranty for the FH 40 GL		\$671.00
50.		<b>ViewPoint Plug-ins</b>		
51.	SYS/170853/051	FH40G plug-in for ViewPoint, price per unit		\$635.00
52.	SYS/170853/050	FH40G plug-in for ViewPoint, price per 10 unit bundle		\$3,508.00

**Purchase Agreement #08-096  
EXHIBIT A-1**

**2008 Price List for the USA**

**FH 40 G Probes**



All prices quoted herein are subject to change without prior notice.

Line	Part Number	Description	Quantity	Price
1.		<b>Nal(Tl) Detectors</b>		
2.		Scintillation Probes		
3.	4254027	FHZ 512 BGO Scintillation probe, crystal 1.5"x1.5" fits to telescope ref. No. 425405101, ideal for detection of high energy gamma radiation		\$8,026.00
4.	4254028	FHZ 512 A Scintillation probe NaI crystal 1.5" x 1.5" fits to telescope ref. no. 425405101		\$2,087.00
5.	4254032	FHZ 512 Scintillation probe NaI crystal 1" x 1" fits to telescope 425405101		\$2,086.00
6.	4254033	FHZ 502 P Scintillation probe 2" x 2" NaI(Tl)-detector particularly for use in the field, water and shock resistant, as per technical specification ZT-003		\$3,010.00
7.	4254045	FHZ 502 E Scintillation probe NaI (Tl) 2" x 2" crystal detector, laboratory version with aluminum housing, holder for FH 40 G and handle		\$3,150.00
8.	4254033	FHZ 503 E Scintillation probe 3" x 3" NaI(Tl)-detector, with aluminum housing, holder for FH 40 G and handle		\$4,308.00
9.	425405116	Protective cap for FHZ 512/512 A Recommended by use with telescope 425405101. Prevents fall out of the probe.		\$64.00
10.		<b>NBR Detectors for Fast Discrimination of Natural and Artificial Radiation</b>		
11.	4254061	FHZ 672 E NBR-Detector for sensitive detection of artificial sources in fluctuating natural radiation fields, aluminum housing, with handle and holder for FH 40 G, as described in Technical Specification ZT-004		\$5,613.00
12.	4254064	FHZ 672-2 NBR-Detector 2 liter detection volume, incl. plastic housing for wall mounting		\$6,294.00
13.	4254065	FHZ 672 E-10 NBR-Detector for sensitive detection of artificial sources in fluctuating natural radiation fields, blue aluminum housing, with handle and holder for FH 40 G, Energy range accord. To H <sup>10</sup> , starting at 48 keV as described in Technical Specification ZT-004		\$6,994.00
14.	425406560	FHZ 672 E-10 NBR-Detector for sensitive detection of artificial sources in fluctuating natural radiation fields, black aluminum housing, with handle and holder for FH 40 G, Energy range accord. To H <sup>10</sup> , starting at 48 keV as described in Technical Specification ZT-004		\$6,994.00
15.		<b>Gamma Dose Rate Detectors</b>		
16.	4254041	FHZ 302 Medium Dose Rate Under Water Probe energy range 1 µSwh ... 1 Sw/h, incl. 20 m special cable		\$2,081.00
17.	4254044	FHZ 312 External dose rate probe high range, underwater probe, range 100 µSwh ... 100 Sw/h incl. 20 m special cable		\$2,227.00
18.	425405114	Protective cap for FHZ 512/512-10. Recommended by use with telescope 425405101. Prevents fall out of the probe.		\$64.00
19.	425405115	Protective cap for FHZ 632/632-10. Recommended by use with telescope 425405101. Prevents fall out of the probe.		\$64.00
20.	4254052	FHZ 512 External dose rate probe, 2 GM's with automatic range switching dose rate 10 µR/h to 1000 R/h, energy range 82 keV - 1.3 MeV fits to telescope 425405101		\$1,476.00
21.	4254056	FHZ 632 L External dose rate probe dose rate up to 10 R/h, energy range 36 keV ... 1.3 MeV fits to telescope 425405101		\$1,266.00

Wednesday, December 12, 2007

Portables

**Purchase Agreement #08-096  
EXHIBIT A-1**

**2008 Price List for the USA  
FH 40 G Probes**

**ThermoFisher  
SCIENTIFIC**

All prices quoted herein are subject to change without notice.

Line	Part Number	Description	Quantity	Price
22.	4254057	FHZ 632 L-30 External dose rate probe, dose rate up to 100 mSv/h, energy range 30 keV ... 4.4 MeV, ambient dose equivalent ADE fits in telescope 425405101		\$1,260.00
23.	4254055	FHZ 612-B External dose rate probe, dose rate up to 1000 R/h, similar to FHZ 612, low range detector sensitive for beta and X-rays		\$1,616.00
24.	4254059	FHZ 612-10 External dose rate probe, dose rate 0,1 µSv/h to 10 Sv/h, energy range 60 keV – 1,3 MeV, 2 GM's with automatic range switching fits to telescope		\$1,476.00
25.	SM140254050	Shock and scratch protection for FHZ 632 L. Protective cap made of black plastic, length 13 cm		\$13.00
26.		Surface Contamination Detectors		
27.	4254034	FHZ 732 Alpha-beta-contamination probe. Permanently filled end window proportional counter tube, 15 cm <sup>2</sup> incl. a bag made of sturdy nylon		\$1,655.00
28.	4254036	FHZ 732 GM Alpha-beta-contamination probe. GM-counter tube, 15 cm <sup>2</sup> incl. a bag made of sturdy nylon		\$909.00
29.	4254039	FHZ 742 Alpha/ beta contamination scintillation probe, 125 cm <sup>2</sup> ,		\$2,927.00
30.	4254068	FHZ 742 RB Beta/gamma-probe Probe for measurement of beta/gamma-surface- contamination together with the FH 40 G. 236cm <sup>2</sup> .		\$3,831.00
31.	4254099	FHZ 742 RB-50 Beta/Gamma-probe for measuring beta/gamma surface contamination with the FH 40 G. 50 cm <sup>2</sup> . Cylindric plastic-scintillator with photomultiplier. Without protective cap: Beta/gamma-measurement, with protective cap: Only gamma-measurement.		\$3,901.00
32.	4254110	FHZ 742 BP17B-F Beta/Gamma-probe incl. floor adapter. Probe for extensive measurement of beta/gamma-surface-contamination. 500 cm <sup>2</sup> . Version incl. cable and extension pipe, for comfortable ground measurement. Weight about 3 kg.		\$6,874.00
33.	4254112	FHZ 742 BP17B-H Beta/Gamma-probe for one hand operation. Probe for extensive measurement of beta/gamma-surface-contamination. 600 cm <sup>2</sup> . Version incl. Cable. Weight about 2.5 kg.		\$5,467.00
34.	4254130	FHZ 382 Alpha/ beta contamination scintillation probe, 100 cm <sup>2</sup> , additional LED indication of detected alpha radiation at the probe		\$2,065.00
35.		Neutron Detectors		
36.	4229420	FHT 752 Neutron dose rate probe, 1 µSv/h ... 0,4 Sv/h, acc. to ICRP 60, incl. holder for FH 40 G for one-handed operation, weight approx. 11 kg - Continental Europe only - Note: Contains BF3 tube		\$6,205.00
37.	4254048	FHT 752S Neutron detector for search and localization of neutron sources, only approximately 800 g, fits to telescope - Continental Europe only - Note: Contains BF3 tube		\$3,533.00
38.	4254049	FHT 752 SH Neutron detector for search and localization of neutron sources, only approximately 800 g, fits to telescope - 10 bar He-3 tube - special IATA regulations and cost apply to air transportation		\$3,799.00
39.	425405117	Protective cap for FHT 752 S/SH. Recommended for use with telescopic pole.		\$84.00
40.	4254085	FHT 762 Wide Energy Neutron Detection Instrument: WENDI-2 with 2 bar He-3 counter tube, MHV-connector, FHT 642 P preamplifier mounted to WENDI-2, HV-cable 40 cm		\$6,943.00
41.		Telescoping Adapters to Extend Your Reach		

Wednesday, December 12, 2007

Portables

**Purchase Agreement #08-096  
EXHIBIT A-1**



**2008 Price List for the USA  
FH 40 G Probes**

All prices are quoted for the USA and are subject to change without prior notice.

Line	Part Number	Description	Quantity	Price
42.	4254051	FH 40 TG Teleprobe, 1 µR/h - 1,000 R/h, autoranging, energy range 82 keV ... 1.3 MeV, watertight, extendible up to 4 m, individually calibrated including dose rate detector FHZ 512		\$3,099.00
43.	425405310	FH 40 TG-10 Teleprobe, 0.01µSwh - 10 Swh, autoranging, energy range 60 keV ... 1.3 MeV, watertight, extendible up to 4 m, individually calibrated including dose rate detector FHZ 512-10		\$3,099.00
44.		Environmental Set for rapid measurement of water, food, filters and soil samples		
45.	4254077	FH 40 LAB-1 Additional case to the Radiometer FH 40 G for alpha-beta- sample measurements inclusive contamination probe FHZ 732 GM, sample changer FHT 770 G, 1.25 m probe cable, non-returnable gloves, spatula and different probe dishes		\$1,950.00
46.	425407730	FH 40 LAB-0 Additional case to the Radiometer FH 40 G for alpha-beta- sample measurements inclusive sample changer FHT 770 G, non-returnable gloves, spatula and different probe dishes Without contamination probe FHZ 732 GM and probe cable		\$751.00
47.		Ionisation Chambers		
48.	4253540	FHT 192 high sensitivity, medium pressure ionisation chamber with integrated wide range preamplifier. Ambient equivalent dose H*(10) energy response 30 keV - 7 MeV, 100 nSV/h to 1 Swh. For area monitoring.		\$4,598.00
49.	425354050	FHT 192 high sensitivity, medium pressure ionisation chamber with integrated wide range preamplifier. Ambient equivalent dose H*(10) energy response 30 keV - 7 MeV, 100 nSV/h to 1 Swh. Built into carrying case with external connector.		\$5,218.00
50.	4253510	FHT 190 high sensitivity, medium pressure ionisation chamber for connection to remote preamplifier. Ambient equivalent dose H*(10) energy response 30 keV - 7 MeV, 100 nSV/h to 1 Swh (with FHT 642 I2 preamplifier), for area monitoring		\$2,927.00
51.	4253541	FHT 190 P open air ionisation chamber (Roentgen response) for connection to external preamplifier, from 20 keV, 100 µR/h to 500 R/h (with FHT 642 I2 preamplifier), for area monitoring		\$1,591.00
52.	425408311	Special connecting cable between FHT 190 / 190 P and preamplifiers FHT 642 I / 642 I2		\$624.00
53.	424942305	Wall bracket for the ionization chambers FHT 192, FHT 190 and FHT 190 P		\$178.00
54.		Preamplifiers for Use with Different Probe Types		
55.	4254082	FHT 642 I2 Wide range preamplifier for ionisation chamber, for FHT 6020 and FH 40 G, Measurement range: 21A - 155 nA		\$1,470.00
56.	4254083	FHT 642 I Preamplifier for ionisation chamber for FHT 6020 and FH 40 G, Measurement range: 101A - 5 nA		\$1,050.00
57.	4254084	FHT 642 S Preamplifier for scintillation counter for FHT 6020 and FH 40 G		\$1,228.00
58.	4254043	FHT 642 P Preamplifier for proportional counter, for FHT 6020 and FH 40 G		\$1,012.00
59.		Cables and Adapters		
60.	425400040	Cable 1.25 m		\$205.00
61.	425400041	Cable 5 m		\$213.00
62.	425400042	Cable 20 m		\$285.00

**Purchase Agreement #08-096  
EXHIBIT A-1**

**2008 Price List for the USA  
FH 40 G Probes**



All prices quoted herein are subject to change without notice.

Line	Part Number	Description	Quantity	Price
63.	425400045	Spiral cable 0.3 m, stretches to 1.2 m		\$241.00
64.	4254040	Adapter for FH 40 F probes cable and interface circuit for connection of FH 40 F probes to the FH 40 G. Cable length: 1.25 m		\$353.00
65.	425400080	Cable 1.25 m, lockable probe connector		\$230.00
66.	425400081	Cable 5 m, , lockable probe connector		\$237.00
67.	425400082	Cable 20 m, lockable probe connector		\$311.00
68.	425400085	Spiral cable 0.3 ... 1.2 m, lockable probe connector		\$266.00
69.		Extended Service Plans		
70.	FHZ732GM-DS3	3 Year Extended Depot Service Warranty for FHZ 732		\$383.00
71.	FHZ672E-DS3	3 Year Extended Depot Service Warranty for FHZ 672		\$1,223.00
72.	FHZ672E-10-DS3	3 Year Extended Depot Service Warranty for FHZ 672E-10		\$1,394.00
73.	FHZ642-DS3	3 Year Extended Depot Service Warranty for FHZ 642		\$699.00
74.	FHZ612-DS3	3 Year Extended Depot Service Warranty for FHZ 612		\$454.00
75.	FHZ602-DS3	3 Year Extended Depot Service Warranty for FHZ 602		\$611.00
76.	FHZ380AB-DS3	3 Year Extended Depot Service Warranty for FHZ 380AB		\$460.00
77.	TELEPROBE-DS3	3 Year Extended Depot Service Warranty for Teleprobe		\$755.00
78.	FHZ632-DS3	3 Year Extended Depot Service Warranty for FHZ 632		\$411.00
79.	FHZ512A-DS3	3 Year Extended Depot Service Warranty for FHZ 512A		\$527.00

**Purchase Agreement #08-096  
EXHIBIT A-1**

**2008 Price List for the USA  
TPM-903**

**ThermoFisher  
SCIENTIFIC**

All prices quoted herein are subject to change without notice.

Line	Part Number	Description	Quantity	Price
1.		<b>Transportable Portal Monitor for Emergency Response</b>		
2.	TPM903B	Transportable Portal Monitor for emergency response. Detects FEMA required 1 µCi in a "walk thru" mode using two 7.2" x 3" x 1.5" sealed lead-shielded scintillation detectors and a two channel programmable controller. Lightweight construction, easily set up by a single person. Operates on 6 "D" cells or 110 V AC. Includes adjustable IR motion sensor. NOTE: Can be expanded into a low cost vehicle monitor using the TPM903VBK.		\$12,388.00
3.		<b>Options</b>		
4.	TPM903VBK	Vehicle monitoring kit for the TPM-903B		\$658.00
5.		<b>Accessories</b>		
6.	DS7134	Rugged Transport Case		\$1,174.00
7.	TPM-SOFTCASE	Rolling Soft Case		\$383.00
8.		<b>ViewPoint Plug-Ins</b>		
9.	SYS1170853/062	TPM903 plug-in for ViewPoint, price per unit		\$1,050.00

Purchase Agreement #08-096

EXHIBIT A-1

2008 Price List for the USA  
RadEye

All prices quoted herein are subject to change without prior notice.

FOR  
Comparison

ThermoFisher  
SCIENTIFIC

Line	Part Number	Description	Quantity	Price
1.		<b>RadEye Pocket-sized Personal Radiation Detectors for Many Different Applications</b>		
2.	4250671	RadEye PRD, Pocket-sized personal radiation detector; NaI(Tl)-det. with PMT, gamma detection from 30 keV; energy compensated dose rate calculation (60 keV - 1.3 MeV); measuring range 1 µR/h - 25 mR/h; 1.5 cps per µR/h (Cs-137); 30 cps per µR/h for Am-241	1-9	\$1,882.00
3.			10-49	\$1,612.00
4.			50-99	\$1,579.00
5.			100-299	\$1,496.00
6.	425067102	RadEye PRD-ER, Pocket-sized personal radiation detector with extended measuring range; NaI(Tl)-det. With PMT, gamma detection from 30 keV; deep dose equivalent rate calculation (60 keV - 1.3 MeV); measuring range 1 µRem/h - 10 Rem/h; linearity +/- 20% for	1-9	\$1,882.00
7.			10-49	\$1,883.00
8.			50-99	\$1,784.00
9.			100-299	\$1,685.00
10.	425067120	RadEye PRD, Pocket-sized personal radiation detector; NaI(Tl)-det. with PMT, gamma detection from 30 keV; H*(10) energy comp. dose rate calc. (60 keV - 1.3 MeV); meas. range 0.01 µSv/h - 250 µSv/h; 160 cps per µSv/h (Cs-137); 2000 cps per µSv/h (Am-241)	1 to 9	\$1,662.00
11.			10 to 49	\$1,612.00
12.			50 to 99	\$1,579.00
13.			100 to 299	\$1,496.00
14.	425067122	RadEye PRD-ER, Pocket-sized personal radiation detector with extended measuring range; NaI(Tl)-det. with PMT, gamma detection from 30 keV; H*(10) energy comp. dose rate calc. (60 keV - 1.3 MeV); meas. range 0.01 µSv/h - 100 mSv/h; linearity +/- 20 % for	1-9	\$1,982.00
15.			10-49	\$1,883.00
16.			50-99	\$1,784.00
17.			100-299	\$1,685.00
18.	4250674	RadEye G, Pocket-sized wide range survey meter; energy compensated GM-tube, 45 keV - 1.3 MeV; measuring range 5 µR/h - 10 R/h; high sensitivity; 17 cps per mR/h, 2 dose and dose rate alarm levels; black label	1-9	\$767.00
19.			10-49	\$691.00
20.			50-99	\$652.00
21.			100-299	\$614.00
22.	425067401	RadEye G, Pocket-sized wide range survey meter; energy compensated GM-tube, 45 keV - 1.3 MeV; measuring range 5 µR/h - 10 R/h; high sensitivity; 17 cps per mR/h, 2 dose and dose rate alarm levels; yellow label	1 to 9	\$767.00
23.			10 to 49	\$691.00
24.			50 to 99	\$652.00
25.			100 to 299	\$614.00

**Purchase Agreement #08-096  
EXHIBIT A-1**

**2008 Price List for the USA**

**RadEye**



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Line	Part Number	Description	Quantity	Price
26.	4250675	RadEye G-10, Pocket-sized wide range survey meter; energy compensated GM-tube according H*(10): 45 keV - 1.3 MeV; measuring range 0.05 $\mu$ Sv/h - 100 mSv/h; high sensitivity: 1.7 cps per $\mu$ Sv/h; 2 dose and dose rate alarm levels; red label	1-9	\$831.00
27.			10-49	\$748.00
28.			50-99	\$766.00
29.			100-299	\$965.00
30.	425057602	RadEye G-10, Pocket-sized wide range survey meter; energy compensated GM-tube according H*(10): 45 keV - 1.3 MeV; measuring range 0.05 $\mu$ Sv/h - 100 mSv/h; high sensitivity: 1.7 cps per $\mu$ Sv/h; 2 dose and dose rate alarm levels, white label	1 to 9	\$831.00
31.			10 to 49	\$748.00
32.			50 to 99	\$766.00
33.			100 to 299	\$965.00
34.	4250577	RadEye N, Neutron pocket meter with excellent gamma rejection, He-3 tube with 10 bar, must not be taken on board of an airplane	1-9	\$1,855.00
35.			10-49	\$1,809.00
36.			50-99	\$1,772.00
37.			100-200	\$1,678.00
38.	4250678	RadEye NL, Neutron pocket meter with excellent gamma rejection, He-3 tube with 2.5 bar, can be taken on board of an airplane	1-9	\$1,738.00
39.			10-49	\$1,706.00
40.			50-99	\$1,670.00
41.			100-299	\$1,582.00
42.	4250683	RadEye AD100, 100 cm <sup>2</sup> alpha/beta discriminating scintillation detector, including hard shell transport case	1-9	\$2,451.00
43.			10-49	\$2,328.00
44.			50-99	\$2,205.00
45.			100-299	\$2,083.00
46.	4250685	RadEye B20, Alpha, Beta, Gamma Surveymeter, measuring range up to 10 kcps, Beta and Gamma dose rate up to 2 mSv/h; 200 mRem/h; linearity +/- 10 %, including hard shell transport case	1-9	\$959.00
47.			10-49	\$811.00
48.			50-99	\$863.00
49.			100-299	\$815.00
50.	425068510	RadEye B20-ER, Alpha, Beta, Gamma Surveymeter, extended measuring range up to 500 kcps, Beta and Gamma dose rate up to 100 mSv/h; 10 Rem/h, linearity +/- 10 %, including hard shell transport case	1-9	\$1,172.00
51.			10-49	\$1,114.00
52.			50-99	\$1,056.00
53.			100-299	\$985.00

**Purchase Agreement #08-096  
EXHIBIT A-1**

**2008 Price List for the USA  
RadEye**

**ThermoFisher  
SCIENTIFIC**

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Line	Part Number	Description	Quantity	Price
54.	4250686	RadEye G20 gamma survey meter with energy compensation according to exposure rate (R/h), measuring range up to 200 mR/h, including hard shell transport case	1-9	\$991.00
55.			10-49	\$941.00
56.			50-99	\$892.00
57.			100-299	\$842.00
58.	4250587	RadEye G20-10, Gamma Survey Meter, from 17 keV, measuring range up to 2 mSv/h; 200 mRem/h, including hard shell transport case	1-9	\$991.00
59.			10-49	\$941.00
60.			50-99	\$892.00
61.			100-299	\$842.00
62.	425068610	RadEye G20-ER gamma survey meter with energy compensation according to exposure rate (R/h), extended measuring range up to 10 R/h, including hard shell transport case	1-9	\$1,204.00
63.			10-49	\$1,144.00
64.			50-99	\$1,084.00
65.			100-299	\$1,024.00
66.	425058710	RadEye G20-ER10, Gamma Survey Meter, from 17 keV, extended measuring range up to 100 mSv/h; 10 Rem/h, including hard shell transport case	1-9	\$1,204.00
67.			10-49	\$1,144.00
68.			50-99	\$1,084.00
69.			100-299	\$1,024.00
70.	4250580	RadEye Area Monitor:(RadEye sold separately); Enclosure w/ transparent door; Car Adapter; AC/DC Adapter w/ 2 m cable & Bulgin connector; Red Light on enclosure top; RS 232 interface 9 pin D-Sub connector (watertight); Bulgin connector for ext. Alarm unit		\$1,044.00
71.	425068010	Additional External Alarm Unit consisting of: 5 m cable with Bulgin connector fitting to connector at 4250580; Small box with latching relay and acknowledge button; 5 m cable between box and horn+strobe; Red strobe + horn with wall mount holder		\$629.00
72.	425067037	Earphone for RadEye series		\$26.00
73.	425067044	Safety lanyard and transparent plastic bag for RadEye PRD, N, NL, G and G-10 versions		\$14.00
74.	425067048	Holster for RadEye PRD, N, NL, G and G-10 versions. Sized to insert instrument with rubber shock protection.		\$27.00
75.	SM149142235	Holster for up to 2 RadEye B-20 energy filters		\$17.00
76.	425068519	Holster for RadEye G-20 and B-20 versions. Sized to insert instrument with rubber shock protection.		\$19.00
77.	425067059	Flat mounting kit, including plates for screw- and adhesive mounting; fits to docking station 425067065 or desktop holder 425067060		\$30.00
78.	425067060	Desktop holder for RadEye (data cable not included)		\$37.00
79.	425067061	Goose neck screw-mounting kit, fits to docking station 425067065 or desktop holder 425067060		\$39.00

**Purchase Agreement #08-096  
EXHIBIT A-1**

**2008 Price List for the USA  
RadEye**



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Line	Part Number	Description	Quantity	Price
80.	425067062	Pivot arm screw-mounting kit, fits to docking station 425067066 or desktop holder 425067060		\$43.00
81.	425067063	Knuckle joint screw-mounting kit, fits to docking station 425067066 or desktop holder 425067060		\$32.00
82.	425067064	Goose neck mounting kit with suction cup for instantaneous attachment to the windshield, fits to docking station 425067066 or desktop holder 425067060		\$48.00
83.	425067065	Docking station ("car adaptor") with charging circuitry (8-30 V DC, cigarette lighter plug), alarm relay and RS 232 interface. 2 aa. AAA NiMH rechargeable batteries included		\$320.00
84.	425067066	AC/DC converter for AC-supply of docking station 425067065 (100 - 240 V AC; 15 V DC, 600 mA), US, UK, EU connector		\$59.00
85.	425067069	Inductive charger (11.5 - 15 V DC) with coiled cable and cigarette lighter plug; requires special battery compartment lid 425067034		\$205.00
86.	425067034	Battery compartment lid with charging circuitry		\$95.00
87.	425067071	Test-Adapter RadEye PRD, 36 g Lu2O3, incl. HV-software		\$416.00
88.	425067072	Test-Adapter RadEye G, G-10, 400 kBq Ba-133		\$1,092.00
89.	425068571	Test-Adapter RadEye B20, 9 g Lu2O3		\$213.00
90.	4254948	Test-Adapter RadEye G20 and portable NBR-Detectors, 50 g Lu2O3		\$352.00
91.	425087075	Short handle		\$16.00
92.	425067076	Aluminum extension, length 1.2 m		\$59.00
93.	425067077	Telescopic extension up to 4 m		\$117.00
94.	425067078	RadEye Adapter with connector to the handle or extension		\$208.00
95.	425068581	Alpha Rejection filter for RadEye B20		\$144.00
96.	425068582	Gamma Filter for RadEye B20, H*(10) (deep dose equivalent) compensation		\$185.00
97.	425068583	Gamma Filter for RadEye B20, H*07 (shallow dose equivalent) compensation		\$181.00
98.	42506901001	Sample changer for RadEye B20		\$160.00
99.	425069011	First Responder laboratory kit for RadEye B20 and B20-ER, including sample changer 42506901001, various dishes, gloves, spatula and filters		\$522.00
100.	4254025	Data cable USB for FH 40 G or RadEye desktop holder 425067060		\$216.00
101.	4254029	Data cable RS 232 for FH 40 G and RadEye desktop holder		\$216.00
102.	SM168535225	RS 232 Adapter cable, 9 pin, 5 m, fits to docking station 425067066 and area monitor 425067080		\$23.00
103.	SM168535251	RS 232 to USB adapter for data cable 4254029, docking station 425067066 and area monitor 425067080		\$41.00
104.	425069951	User Software "RadEye.Exe"		\$156.00
105.	425069952	Calibration Software "Cal-RadEye.Exe"		\$209.00
106.		Extended Depot Service Warranties		
107.	RADEYEPRD-DS3	3 Year Extended Depot Service Warranty for the RadEye-PRD		\$393.00

Purchase Agreement #08-096  
EXHIBIT A-1

2008 Price List for the USA

RadEye



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Line	Part Number	Description	Quantity	Price
108.	RADEYEN-DS3	3 Year Extended Depot Service Warranty for the RadEye-N		\$341.00
109.	RADEYEG-DS3	3 Year Extended Depot Service Warranty for the RadEye-G		\$152.00
110.		ViewPoint Plug-ins		
111.	SYS1/70853/049	RadEye plug-in for ViewPoint, price per unit		\$635.00
112.	SYS1/70853/048	RadEye plug-in for ViewPoint, price per 10 unit bundle		\$3,339.00