



GENERAL SERVICES ADMINISTRATION
Federal Supply Service

AUTHORIZED FEDERAL SUPPLY SERVICE
SCHEDULE PRICELIST

**GEOPHYSICAL ENVIRONMENTAL
ANALYSIS EQUIPMENT AND
SERVICES**

FSC GROUP: 66, Part II, Section Q
FSC Class 6665 – Hazard Detection Equipment

Contract Number: GS-07F-0248T
Period Covered by Contract:
February 27, 2012 to February 26, 2017

Modification No. PO-021
Effective Date: 12/04/2013

SIN 66-621 Radioactivity Detectors
SIN 66-503 Extended Warranty

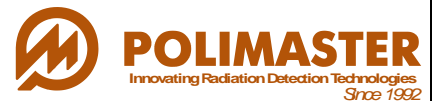
For more information on ordering from Federal
Supply Schedules click on the FSS
Schedules button at fss.gsa.gov.

**Service Disabled Veteran Owned Small
Business**
**General Services Administration
Federal Supply Service**

On-line access to contract ordering information, terms and
conditions, up-to-date pricing, and the option to create an
electronic delivery order are available through GSA
Advantage!, a menu-driven database system. The
INTERNET address GSA Advantage! is:
GSAAdvantage.gov.



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www.techhawksecurityproducts.com





CUSTOMER INFORMATION

1a. Table of awarded special item number(s) with appropriate cross-reference to item descriptions and awarded price(s).

SINs 66-621 and 66-503 Radiation/Nuclear Material Detection Equipment And Extended Warranty	For prices and item descriptions, see para. 1b. below
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1b. Identification of the lowest priced model number and lowest unit price for that model for each special item number awarded in the contract. This price is the Government price based on a unit of one, exclusive of any quantity/dollar volume, prompt payment, or any other concession affecting price. Those contracts that have unit prices based on the geographic location of the customer, should show the range

Mfr Name	Mfr Part No.	Dlr Part No.	Item Descriptions	GSA Price
SIN 66-621				
Polimaster Inc.	PM1401K3	PM1401K3	The PM1401K is a unique light-weight multipurpose hand held radionuclide identifier designed for easy detection and location of alpha, beta, gamma and neutron radiation sources, precise measurement of the alpha and beta surface contamination levels and gamma dose rate, and reliable identification of the radioisotopes. For example, the PM1401K3 is able to distinguish between naturally occurring radiation materials (NORM), medical isotopes, industrial sources of radiation (which are potentially dangerous to the general population) and sources of radiation that are inherently dangerous, such as weapons-grade nuclear materials.	\$8,750.63
Polimaster Inc.	PM1410	PM1410	Universal multifunctional portable device (the class of Radionuclide Identification Devices) designed to search, detect, localize and identify radioactive and nuclear materials, and for quick and accurate measurements of dose rate and count rate (ensuring radiation safety while localizing and identifying radioactive sources). The PM1410 has three built-in detectors: highly sensitive NaI spectroscopic detector of gamma radiation, G-M tube for registering high dose rate, and neutron detector (optional).	\$14,935.08
Polimaster Inc.	PM1703MO-1	PM1703MO-1	The new energy-compensated PM1703MO-1 combines the functions of a radiation detector (CsI based detector) and radiation dose measurement and accumulation meter (GM tube based dosimeter). This unit is small in size and offers the highest performance of an instrument of this type currently available on the market. It meets ANSI N42.32 and ANSI N42.33 standards and specifications and can be used in health physics as well as security applications. Additionally the PM1703MO-1 utilizes Polimaster's Polidenty software to identify isotopes and provide networking capability.	\$1,281.25
Polimaster Inc.	PM1703GN	PM1703GN	Search monitor – the first in the world unique gamma-neutron pager of the new generation. The instrument can be used not only as an efficient instrument to search for and locate gamma and neutron radiation sources but also as an alarming rate meter to respond to changes in the background radiation	\$2,659.50



Mfr Name	Mfr Part No.	Dlr Part No.	Item Descriptions	GSA Price
			environment in a controlled area.	
Polimaster Inc.	PM1704GN	PM1704GN	This is a new class of small (pocket-sized) pager-style gamma and neutron spectroscopic personal radiation detector that combines the functionality of a radiation detector with primary radionuclide identification. The distinctive feature of this class of devices is the autonomous primary radionuclide identification of radioactive sources that does not require a connection to a remote unit (smartphone/PC/laptop/PDA, etc.), even in the presence of shields, containers or other forms of physical protection of radiation sources that have a weakening and scattering influence. Identification results appear on a bright, easily read color LCD display. The results show not only designations of identified radionuclides, but also classes to which they relate in accordance with the recommendations of the International Atomic Energy Agency (IAEA) - naturally occurring radiation materials (NORM), medical isotopes, industrial sources or special nuclear materials (SNM). The PM1704GN also has a built-in Dictaphone to record comments on the measured spectra. It has a USB interface for communication with a Smartphone, PC, laptop, PDA, etc. User software is automatically downloaded from the non-volatile memory of the device when it is connected. The PM1704GN has a scintillation Li ₆ I(Eu) detector for the search and detection of neutron radiation sources.	\$3,615.21
Polimaster Inc.	PM1704M	PM1704M	This is a new class of small (pocket-sized) pager-style gamma and neutron spectroscopic personal radiation detector that combines the functionality of a radiation detector with primary radionuclide identification. The distinctive feature of this class of devices is the autonomous primary radionuclide identification of radioactive sources that does not require a connection to a remote unit (smartphone/PC/laptop/PDA, etc.), even in the presence of shields, containers or other forms of physical protection of radiation sources that have a weakening and scattering influence. Identification results appear on a bright, easily read color LCD display. The results show not only designations of identified radionuclides, but also classes to which they relate in accordance with the recommendations of the International Atomic Energy Agency (IAEA) - naturally occurring radiation materials (NORM), medical isotopes, industrial sources or special nuclear materials (SNM). The PM1704M also has a built-in Dictaphone to record comments on the measured spectra. It has a USB interface for communication with a Smartphone, PC, laptop, PDA, etc. User software is automatically downloaded from the non-volatile memory of the device when it is connected.	\$3,252.70



Mfr Name	Mfr Part No.	Dlr Part No.	Item Descriptions	GSA Price
Polimaster Inc.	PM1704	PM1704	This is a new class of small (pocket-sized) pager-style gamma and neutron spectroscopic personal radiation detector that combines the functionality of a radiation detector with primary radionuclide identification. The distinctive feature of this class of devices is the autonomous primary radionuclide identification of radioactive sources that does not require a connection to a remote unit (smartphone/PC/laptop/PDA, etc.), even in the presence of shields, containers or other forms of physical protection of radiation sources that have a weakening and scattering influence. Identification results appear on a bright, easily read color LCD display. The results show not only designations of identified radionuclides, but also classes to which they relate in accordance with the recommendations of the International Atomic Energy Agency (IAEA) - naturally occurring radiation materials (NORM), medical isotopes, industrial sources or special nuclear materials (SNM). The PM1704 also has a built-in Dictaphone to record comments on the measured spectra. It has a USB interface for communication with a Smartphone, PC, laptop, PDA, etc. User software is automatically downloaded from the non-volatile memory of the device when it is connected.	\$2,962.52
SIN 66-503				
Polimaster Inc.	SCPM1401K31	SCPM1401K31	1 year extended warranty for PM1401K3	\$1,126.91
Polimaster Inc.	SCPM1401K32	SCPM1401K32	2 year extended warranty for PM1401K3	\$1,300.28
Polimaster Inc.	SCPM1401K33	SCPM1401K33	3 year extended warranty for PM1401K3	\$1,473.65
Polimaster Inc.	SCPM14101	SCPM14101	1 year extended warranty for PM1410	\$1,941.56
Polimaster Inc.	SCPM14102	SCPM14102	2 year extended warranty for PM1410	\$2,240.26
Polimaster Inc.	SCPM14103	SCPM14103	3 year extended warranty for PM1410	\$2,538.96
Polimaster Inc.	SC1703MO-11	SC1703MO1	1 year extended warranty for PM1703MO-1	\$167.51
Polimaster Inc.	SC1703MO-12	SC1703MO2	2 year extended warranty for PM1703MO-1	\$226.12
Polimaster Inc.	SC1703MO-13	SC1703MO3	3 year extended warranty for PM1703MO-1	\$270.77
Polimaster Inc.	SC1703GN1	SC1703GN1	1 year extended warranty for PM1703GN	\$345.75
Polimaster Inc.	SC1703GN2	SC1703GN2	2 year extended warranty for PM1703GN	\$398.90
Polimaster Inc.	SC1703GN3	SC1703GN3	3 year extended warranty for PM1703GN	\$452.10
Polimaster Inc.	SC1704GN1	SC1704GN1	1 year extended warranty for PM1704GN	\$469.98



Mfr Name	Mfr Part No.	Dlr Part No.	Item Descriptions	GSA Price
Polimaster Inc.	SC1704GN2	SC1704GN2	2 year extended warranty for PM1704GN	\$542.28
Polimaster Inc.	SC1704GN3	SC1704GN3	3 year extended warranty for PM1704GN	\$614.59
Polimaster Inc.	SC17041	SC17041	1 year extended warranty for PM1704	\$385.39
Polimaster Inc.	SC17042	SC17042	2 year extended warranty for PM1704	\$444.33
Polimaster Inc.	SC17043	SC17043	3 year extended warranty for PM1704	\$503.27
Polimaster Inc.	SC1704M1	SC1704M1	1 year extended warranty for PM1704M	\$422.57
Polimaster Inc.	SC1704M2	SC1704M2	2 year extended warranty for PM1704M	\$487.86
Polimaster Inc.	SC1704M3	SC1704M3	3 year extended warranty for PM1704M	\$552.15

NOTE: 1 – Lowest price radiation detector offered under SIN 426-4R in this GSA Pricelist. 2 – Lowest price extended warranty offered under SIN 426-4R in this GSA Pricelist

- 1c. **“Not applicable”**
2. Maximum order: **\$150,000**
3. Minimum order: **\$100**
4. Geographic coverage (delivery area): **Contractor will provide domestic delivery only.**
5. Point(s) of production (city, county, and State or foreign country):
Polimaster, Inc.
2200 Clarendon Blvd., 1204
Arlington, VA 22201
6. Discount from list prices or statement of net price: **10%**
7. Quantity discounts: **None**
8. Prompt payment terms: **None**
- 9a. **Government purchase cards are accepted at or below the micro-purchase threshold.**
- 9b. **Government purchase cards are accepted above the micro-purchase threshold.**
10. Foreign items: **None**
- 11a. Time of delivery: **60 Days After Receipt of Order for up to 200 items. For orders of more than 200 items a delivery schedule will be negotiated with the customer.**
- 11b. Expedited Delivery: **Items available for expedited delivery are noted in this price list (**).**
- 11c. **Overnight and 2-day delivery are available. The schedule customer may contact TECHAWK for rates for overnight and 2-day delivery.**
- 11d. Urgent Requirements. **Not applicable**
12. F.O.B. point: **Destination**
- 13a. Ordering address:
TECHAWK
1000 26th Street South
Arlington, VA 22202-2102



- 13b. Ordering procedures: For supplies and services, the ordering procedures, information on Blanket Purchase Agreements (BPA's) are found in Federal Acquisition Regulation (FAR) 8.405-3.
- 14. Payment address:
TECHAWK
1000 26th Street South
Arlington, VA 22202-2102
- 15. Warranty provision: **All products sold under SIN 426-4R are warranted for 2 years from the date of purchase.**
- 16. Export packing charges: **Not applicable.**
- 17. Terms and conditions of Government purchase card acceptance (any thresholds above the micro-purchase level).
- 18. Terms and conditions of rental, maintenance, and repair: **Not applicable**
- 19. Terms and conditions of installation: **Not applicable**
- 20. Terms and conditions of repair parts indicating date of parts price lists and any discounts from list prices: **Not applicable**
- 20a. Terms and conditions for any other services: **Service of Warranty**

Polimaster Inc. ("Polimaster") warrants to the purchaser (the "Purchaser") that the Product, including component parts, to be free from material defects in material and workmanship, under normal use and service for a period of two years from the date of purchase provided, however, that the foregoing warranties are expressly contingent (and shall otherwise be void) upon use of the Products in accordance with specifications and without misuse, abuse, or abnormal use, accident, damage, alteration, or modification thereto or improper or unauthorized repairs or improper maintenance. Non-substantial variations of performance from the documentation do not establish a warranty right.

EXCEPT FOR THE FOREGOING EXPRESS WARRANTIES STATED HEREIN, AND FOR ANY WARRANTY, CONDITION, REPRESENTATION OR TERM TO THE EXTENT TO WHICH THE SAME CANNOT OR MAY NOT BE EXCLUDED OR LIMITED BY LAW APPLICABLE TO PURCHASER IN HIS/HER/ITS JURISDICTION, THE PRODUCTS AND SERVICES HEREUNDER ARE PROVIDED "AS IS AND WITH ALL FAULTS" AND, TO THE MAXIMUM EXTENT PERMITTED BY LAW, POLIMASTER DISCLAIMS ALL OTHER WARRANTIES, OF ANY KIND, EITHER EXPRESS, OR IMPLIED, INCLUDING, WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, INTEGRATION, SATISFACTORY QUALITY, NONINFRINGEMENT OR ANY WARRANTIES ARISING FROM COURSE OF DEALING OR COURSE OF PERFORMANCE. PURCHASER ASSUMES ALL RISKS AND RESPONSIBILITIES FOR SELECTION OF THE PRODUCT TO ACHIEVE HIS/HER/ITS INTENDED RESULTS, AND FOR THE INSTALLATION OF, USE OF, AND RESULTS OBTAINED FROM THE PRODUCT. POLIMASTER DOES NOT WARRANT THAT THE PRODUCTS AND SERVICES HEREUNDER WILL MEET PURCHASER'S OR USERS' REQUIREMENTS OR WILL OPERATE IN THE COMBINATIONS WHICH MAY BE SELECTED BY PURCHASER OR USER OR THAT THE SERVICES HEREUNDER OR THE OPERATION OF THE PRODUCTS WILL BE SECURE, ERROR-FREE, OR UNINTERRUPTED, AND POLIMASTER HEREBY DISCLAIMS ANY AND ALL LIABILITY ON ACCOUNT THEREOF TO THE MAXIMUM EXTENT PERMISSIBLE UNDER APPLICABLE LAW. POLIMASTER DISCLAIMS ANY AND ALL LIABILITY FOR THE LOSS OF DATA DURING ANY COMMUNICATIONS AND ANY LIABILITY ARISING FROM OR RELATED TO ANY FAILURE BY POLIMASTER TO TRANSMIT ACCURATE OR COMPLETE INFORMATION TO PURCHASER.

EXCLUSIVE REMEDY. Other than termination of this Agreement due to Polimaster's breach, as Purchaser's exclusive remedy for any defect or nonconformity in the Product, Purchaser shall obtain from Polimaster repair or replacement of the Products containing such defect or nonconformity ("Affected Products"). In furtherance of such undertaking, if Purchaser reasonably believes that any Product contains a defect or nonconformity for which Polimaster is responsible, Purchaser shall inform Polimaster of the nature of such defect or nonconformity in reasonable detail and shall request authorization from Polimaster to return the Affected Products to Polimaster for repair or replacement. All Products so returned shall be shipped prepaid or otherwise delivered to Polimaster's facility or authorized service center. If Polimaster fails to repair or



replace the Affected Products within a reasonable time after Purchaser has so returned them to Polimaster, Purchaser shall be entitled to repayment or credit of the original price of the defective or nonconforming Product as its exclusive further remedy.

EXCLUSIONS OF DAMAGES AND LIABILITY. PURCHASER ASSUMES THE ENTIRE COST OF ANY DAMAGE RESULTING FROM THE USE OF THE PRODUCT AND THE INFORMATION CONTAINED IN, GATHERED OR COMPILED BY THE PRODUCT, AND THE INTERACTION (OR FAILURE TO INTERACT PROPERLY) WITH ANY OTHER HARDWARE OR SOFTWARE WHETHER PROVIDED BY POLIMASTER OR A THIRD PARTY. TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, IN NO EVENT WILL POLIMASTER OR ITS SUPPLIERS OR LICENSORS BE LIABLE FOR ANY DAMAGES WHATSOEVER (INCLUDING, WITHOUT LIMITATION, ANY SPECIAL, INCIDENTAL, CONSEQUENTIAL OR INDIRECT DAMAGES, DAMAGES FOR LOSS OF BUSINESS PROFITS, BUSINESS INTERRUPTION, LOSS OF BUSINESS INFORMATION, LOSS OF DATA, LOSS OF GOODWILL, WORK STOPPAGE, HARDWARE OR SOFTWARE DISRUPTION, IMPAIRMENT OR FAILURE, REPAIR COSTS, TIME VALUE OR OTHER PECUNIARY LOSS) ARISING OUT OF THE USE OR INABILITY TO USE THE PRODUCT, OR THE INCOMPATIBILITY OF THE PRODUCT WITH ANY OTHER PRODUCT, HARDWARE, SOFTWARE OR USAGE, EVEN IF SUCH PARTIES HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Limitation on Liability. Notwithstanding any provision to the contrary herein and with the exception of the claims of intellectual property rights infringements and the payments obligations hereunder, the liability of Polimaster for any claim whatsoever related to the Products or this Agreement, including any cause of action sounding in contract, tort, or strict liability, shall not exceed the greater of Ten Thousand (\$10,000.00) Dollars or the total amount of payments theretofore paid by Purchaser during the previous six month period to Polimaster in connection with the Products relating to such liability. THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY TO THE EXTENT THAT APPLICABLE LAW PROHIBITS SUCH LIMITATION. FURTHERMORE, BECAUSE SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF LIABILITY FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES, THE ABOVE LIMITATION, IF APPLICABLE, MAY NOT APPLY TO PURCHASER.

Applicability. The limitations and exclusions contained herein shall apply notwithstanding any failure of essential purpose of any limited remedy.

To contact Polimaster, Inc. with a warranty claim, got to Polimaster's website, <http://www.polimaster.us>, click on Hotline from the Support option. Fill out and submit the Hotline form. You will be notified within 48 hours of the disposition of your claim and shipping instructions will be given.

21. List of service and distribution points:

Polimaster, Inc.
2200 Clarendon Blvd. Suite 1204
Arlington, VA 22201

22. List of participating dealers: **Not applicable**

23. Preventive maintenance: **Not applicable**

24a. **Not applicable**

24b. **Not applicable**

25. Data Universal Number System (DUNS) number: **098236107**

26. **Contractor has registered with the Central Contractor Registration Database.**

CAGE Code: 1WPL4

Contractor's Taxpayer Identification Number (TIN) 54-1986016

Type of Contractor – B-Service Connected Disabled Veteran Owned Small Business



PM1401K3 – Radiation Detector / Identifier

The PM1401K is a unique light-weight multipurpose hand held radionuclide identifier designed for easy detection and location of alpha, beta, gamma and neutron radiation sources, precise measurement of the alpha and beta surface contamination levels and gamma dose rate, and reliable identification of the radioisotopes. For example, the PM1401K3 is able to distinguish between naturally occurring radiation materials (NORM), medical isotopes, industrial sources of radiation (which are potentially dangerous to the general population) and sources of radiation that are inherently dangerous, such as weapons-grade nuclear materials.

The PM1401K3 performs the following functions:

- Isotope identification of single radionuclides and their mixtures;
- Detect, search and locate the alpha, beta, gamma and neutron radiation sources including nuclear weapons grade materials;
- Measures alpha and beta surface contamination levels;
- Accurate measurement of the dose rate;
- Alerts the user of the presence of radiation sources through both audible and vibrating alarms;
- Records and stores up to 500 events and 100 gamma spectra in its non-volatile memory;
- Transmits all of the recorded data via IR or radio (Bluetooth) channels to a PC or PDA.

SPECIFICATIONS – PM1410K3

Detector	CsI(Tl)
Sensitivity, no less than	
On ²⁴¹ Am	200 (s ⁻¹) / (μSv/h) 2.0 (s ⁻¹) / (μR/h)
On ¹³⁷ Cs	200 (s ⁻¹) / (μSv/h)

	2.0 (s ⁻¹ / (μR/h)
Energy range of gamma radiation	0.06 - 3.0 MeV
Energy range in Search Mode	0.03 - 3.0 MeV
Coefficient n setting range, (the number of mean square deviations of background)	1.0 - 9.9
The number of accumulation channels of the scintillation spectra	1024
The number of spectra, stored in non- volatile memory	up to 100
Detection of gamma radiation sources at a distance of 0.2m (0.7 ft), velocity of 0.5 m/s (1.64 ft/s) and level of radiation background of no more than 0,25 μSv/h (25 μR/h) when the activity of the sources is	
¹³³ Ba	55.0 kBq
¹³⁷ Cs	100.0 kBq
⁶⁰ Co	50.0 kBq
Detection of the sampling sources at a distance of 0,2m (0.7 ft), velocity of 0.5m/s (1.64 ft/s) and level of radiation background no more than 0,25 μSv/h (25 μR/h) when the weight of the sources is	
Pu	0.3 g
U	10 g
Neutron search channel	
Detector	Slow neutron counter
Energy range	0.025 eV - 14 MeV
Coefficient n setting range, (the number of mean square deviations of background)	1.0 - 9.9
Detection of the ²⁵²Cf alternative source with neutron flux 1,5x10⁴ s⁻¹ at a distance of 1 m (3.28 ft), velocity of 0.5 m/s (1.64 ft/s) and the level of radiation background of no more than 0.25 μSv/h (25 μR/h),	250 g

equivalent of plutonium

Measuring gamma-channel

Detector GM-counter
 Dose equivalent rate measurement range (DER) 0.1 μ Sv/h - 100 mSv/h
 Energy range 0.015 - 15 MeV
 Energy response relative to 0.662 MeV (¹³⁷Cs) in the photon radiation measuring mode, (%) no more:

-within the energy range from 0.015 up to 0.045 MeV $\pm 40\%$

-within the energy range from 0.045 up to 15.0 MeV $\pm 30\%$

The allowable limits of the main relative error of DER measurement (where H is the DER value in mSv/h) $\pm (15 + 0.0015/H) \%$

Measuring alpha and beta channel

Detector GM-counter
 Alpha-flux density measurement range from 15 $\text{min}^{-1}\text{cm}^{-2}$ to 10⁵ $\text{min}^{-1}\text{cm}^{-2}$
 The minimal detectable flux density from 2 $\text{min}^{-2}\text{cm}^{-1}$

The limits of allowable main relative error of measurement of the α - flux density on ²³⁹Pu (where φ - the measured density of α -flux in $\text{min}^{-1}\text{cm}^{-2}$ A coefficient equal 450 $\text{min}^{-1}\text{cm}^{-2}$) $\pm (20 + A/\varphi)\%$

β -flux density measurement range from 6 $\text{min}^{-1}\text{cm}^{-2}$ to 10⁵ $\text{min}^{-1}\text{cm}^{-2}$

The limits of allowable main relative error of measurement of β -particles within the range on ⁹⁰Sr+⁹⁰Y (where φ - the measured density of β -flux in $\text{min}^{-1}\text{cm}^{-2}$ A, coefficient equal 60 $\text{min}^{-1}\text{cm}^{-2}$) $\pm (20 + A/\varphi)\%$

General specifications

Identification of radionuclides:

Special nuclear materials ²³³U, ²³⁵U, ²³⁷Np, Pu
 Medical radionuclides ¹⁸F, ⁶⁷Ga, ⁵¹Cr, ⁷⁵Se, ⁸⁹Sr, ⁹⁹Mo, ^{99m}Tc, ¹⁰³Pd, ¹¹¹In, ¹²³I, ¹³¹I, ¹⁵³Sm, ²⁰¹Tl, ¹³³Xe
 Naturally occurring radioactive materials ⁴⁰K, ²²⁶Ra, ²³²Th and daughters,

Industrial radionuclides

Alarming devices

Data transfer communication channels

Battery lifetime

Battery

Operating conditions

temperature range, °C (°F)

relative humidity at 35 °C (95 °F)

Protection degree

Weight

Dimensions

²³⁸U and daughters

⁵⁷Co, ⁶⁰Co, ¹³³Ba, ¹³⁷Cs, ¹⁹²Ir,

²²⁶Ra, ²⁴¹Am

visual (LCD), audible built-in, and external vibration

IRDA (IR-channel), Bluetooth (radio-channel)

600 h

AA

-30°C to 50°C (-22°F to 122°F)

up to 95% at 35°C (95°F)

IP65

650 g (22.9 oz)

242 x 58 x 57 mm (9½" x 2¼" x 2¼")



PM1410 – Radiation Detector / Identifier

Universal multifunctional portable device (the class of Radionuclide Identification Devices) designed to search, detect, localize and identify radioactive and nuclear materials, and for quick and accurate measurements of dose rate and count rate (ensuring radiation safety while localizing and identifying radioactive sources). The PM1410 has three built-in detectors: highly sensitive NaI spectroscopic detector of gamma radiation, G-M tube for registering high dose rate, and neutron detector (optional).

The instrument can connect external alpha and beta detection units– it allows the operator to search alpha and beta sources and measure alpha and beta flux density from contaminated surfaces.

The device has a built-in GPS module and can be integrated into Polimaster's Nuclear Protection Network (NPNET™) allowing both wireless and wired radiological data transfer and geographic coordinates to the Remote Expert Center.

The device has a built-in highly sensitive NaI(Tl) spectroscopic scintillation detector which allows:

- Performance of a quick search, detection, and localization of the source and measurement (dose rate and count rate) of radiation;
- Accumulate, process, store and display scintillation spectra;
- Performance of rapid identification of radionuclide composition of the detected gamma sources on the built-in color TFT display.

Features:

- Built-in highly sensitive CsI(Tl) spectroscopic scintillation NaI(Tl) detector to search, detect, locate the source and measure dose rate and count rate of radiation; accumulate, process, store and display scintillation spectra; identify the radionuclide composition of the detected sources
- Built-in G-M tube to expand the dose rate measurement range to 10 Sv/h
- Neutron detector (optional) *
- External interchangeable detection unit for alpha and beta radiation with wireless (Bluetooth*) or wired (RS485) data transfer
- Quick and reliable identification of radioactive sources even in the presence of shields, containers or other forms of physical protection of radiation sources that have a weakening and scattering influence.
- Built-in GPS module
- Wireless integration with radiation portal monitors PM5000A with data transfer into a common base and generation of a unified report.
- Capability to integrate into the Polimaster Nuclear Protection Network (Polimaster NPNET™)
- Wireless data transfer via Wi-Fi, Bluetooth* and GSM/GPRS (built-in module).
- USB interface to connect a camera and connect the device to a PC
- RS485 interface to connect external detection units
- Audible and visual alarms
- Bright, color, easily read TFT display 640x480
- Simple and easy to use
- User-friendly and intuitively understandable interface

SPECIFICATIONS – PM1410

Detector	NaI(Tl)
Sensitivity, no less than	
On ²⁴¹ Am	✘
On ¹³⁷ Cs	800 s ⁻¹ /(μSv/h) 8,0 s ⁻¹ /(μR/h)
Energy range of gamma radiation	0.025 - 3.0 MeV
Energy range in Search Mode	0.025 - 3.0 MeV
Coefficient n setting range, (the number of mean square deviations of background)	1.0 – 9.9
The number of accumulation channels of the scintillation spectra	1024
The number of spectra, stored in non-volatile memory	up to 1000

Detection of gamma radiation sources at a distance of 0.2m (0.7 ft), velocity of 0.5 m/s (1.64 ft/s) and level of radiation background of no more than 0,25 µSv/h (25 µR/h) when the activity of the sources is

¹³³ Ba	55.0 kBq
¹³⁷ Cs	100.0 kBq
⁶⁰ Co	50.0 kBq

Detection of the sampling sources at a distance of 0,2m (0.7 ft), velocity of 0.5m/s (1.64 ft/s) and level of radiation background no more than 0,25 µSv/h (25 µR/h) when the weight of the sources is

Pu	✘
U	✘

Neutron search channel

Detector	Slow neutron counter
Energy range	from thermal (0,025x10 ⁻⁶ MeV) to 14 MeV
Coefficient n setting range, (the number of mean square deviations of background)	1.0 - 9.9

Detection of the ²⁵²Cf alternative source with neutron flux 1,5x10⁴ s⁻¹ at a distance of 1 m (3.28 ft), velocity of 0.5 m/s (1.64 ft/s) and the level of radiation background of no more than 0.25 µSv/h (25 µR/h), equivalent of plutonium

Measuring gamma-channel

Detector	GM-counter
Dose equivalent rate measurement range (DER)	0,1 µSv/h - 10 Sv/h
Energy range	0.015 - 15 MeV
Energy response relative to 0.662 MeV (¹³⁷Cs) in the photon radiation measuring mode, (%) no more:	

-within the energy range from 0.015 up to 0.045 MeV ±40%

-within the energy range from 0.045 up to 15.0 MeV ±30%

The allowable limits of the main relative error of ± (15 + 0,0015/H) %

DER

measurement (where H is the DER value in mSv/h)

Measuring alpha and beta channel

Detector

Alpha-flux density measurement range

The minimal detectable flux density

The limits of allowable main relative error of measurement

of the α - flux density on ^{239}Pu

(where ϕ - the measured density of α -flux in $\text{min}^{-1}\text{cm}^{-2}$ A

coefficient equal $450 \text{ min}^{-1}\text{cm}^{-2}$)

β -flux density measurement range

The limits of allowable main relative error of measurement of β -particles

within the range on $^{90}\text{Sr}+^{90}\text{Y}$

(where ϕ - the measured density of β -flux in $\text{min}^{-1}\text{cm}^{-2}$ A,

coefficient equal $60 \text{ min}^{-1}\text{cm}^{-2}$)

General specifications

Identification of radionuclides:

Special nuclear materials

Medical radionuclides

Naturally occurring radioactive materials

Industrial radionuclides

Alarming devices

Data transfer communication channels

Battery lifetime

Battery

Operating conditions

temperature range, °C (°F)

relative humidity at 35 °C (95 °F)

Protection degree

Weight

Dimensions

Proportional counter

from $1 \text{ min}^{-1}\text{cm}^{-2}$ to $5 \times 10^5 \text{ min}^{-1}\text{cm}^{-2}$

from $2 \text{ min}^{-2}\text{cm}^{-1}$

$\pm (20 + A/\phi)\%$

from 10 to $10^6 \text{ min}^{-1}\text{cm}^{-2}$

$\pm (20 + A/\phi)\%$

^{233}U , ^{235}U , ^{237}Np , Pu

^{67}Ga , ^{51}Cr , ^{75}Se , ^{89}Sr , ^{99}Mo , $^{99\text{m}}\text{Tc}$, ^{103}Pd ,
 ^{111}In , ^{123}I , ^{125}I , ^{131}I , ^{131}Cs , ^{153}Sm , ^{201}Tl , ^{133}Xe

^{40}K , ^{226}Ra , ^{232}Th and daughters,

^{238}U and daughters

^{57}Co , ^{60}Co , $^{90}\text{Sr}/^{90}\text{Y}$, ^{133}Ba , ^{137}Cs , ^{192}Ir , ^{226}Ra ,
 ^{252}Cf

visual, audial

USB, GSM/GPRS, Bluetooth*, Wi-Fi, GPS

12 hours

Accumulator battery

-30°C to 50°C (-22°F to 122°F)

up to 95%

✘

2.7 kg

120x240x178 mm



PM1703MO-1 Portable Radiation Detector

The new energy-compensated PM1703MO-1 combines the functions of radiation detection (CsI based detector) and radiation dose measurement and accumulation (GM tube based dosimeter). This unit is the smallest in size and at the same time offers the highest performance of an instrument of this type currently available on the market. It meets ANSI N42.32 and ANSI N42.33 standards specifications and can be equally well used in health physics as well as security applications.

In addition to the basic features of well-known precursor Models PM1703M (gamma only) and Model PM1703GN (gamma / neutron), the PM1703MO-1 additionally features identification and networking capability.

These features include:

- **Bluetooth Connectivity** – The instrument may be equipped with Bluetooth transmitter and connect with any Bluetooth enabled computing device, including PDAs, laptops and desk-top computers. It offers the ability to transmit the gross counts for display on the computer screen.
- **Isotope Identification Software** – A suite of isotope identification software applications that can be installed on any computer or Smartphone and allow immediate identification and category classification of the alarming isotope(s). Identification of multiple isotopes is also possible.
- **Networking Software** – Network software that will allow any Internet enabled computing device to transmit the data via Internet or other communication system to a Unified Command Center (UCC). Through the UCC, users can obtain on-line information about isotope dose rates, isotopes detected and identified, GPS locations of the source (using external GPS options), live mapping of an area and monitoring of radiation levels by each user and by UCC - for the whole area of surveillance.

Decision Support System – A new decision tree logic application allows managers to set up protocols that are fed back to the end users using Q&A and simple logic. Examples include the ability to set up protocol around naturally occurring radiation or medical isotopes. The DSS system allows the UCC users to develop an artificial intelligence module to assist in mitigation of false alarms.

SPECIFICATIONS

PM1703MO-1 - Personal Radiation Detector	
Detector	CsI(Tl) scintillator GM-counter
Energy range	0.033 – 3.0 MeV
Time of measurement	0.25 s
Sensitivity (at Cs-137)	1 cps/(mR/h) (100 cps/(μ Sv/h))
Detection of sources	meets most relevant parts of ANSI 42.32; ANSI 42.33; ITRAP requirements
Measurement gamma Indication range	range, 10 mR/h – 1000 R/h (0.1 μ Sv/h – 10 Sv/h) 1 mR/h – 1300 R/h (0.01 μ Sv/h – 13 Sv/h)
Accuracy of dose rate measurement	\pm 20 %
Measurement time	0.25 s
Alarm types	audio tone, visual and/or vibration
Power requirements	one AA size battery
Battery lifetime	up to 1000 hours
PC communications	IR interface
Data collection	1000 data points
Environmental: temperature humidity	range -22 to +122 °F (-30 to +50 °C) up to 95% at +95 °F (+35 °C)
Water Tightness	IP65
Drop Test	30" (0,7 m) onto concrete surface
Dimensions	3.4" x 2.8" x 1.2"
Weight, including battery	6.6 oz. (200 g.)



PM1703GN – PERSONAL RADIATION DETECTOR

Polimaster's PM1703GN series of Personal Radiation Detectors is a unique family of gamma neutron pagers capable of detecting the slightest amounts of radioactive and nuclear materials. These instruments are recommended for customs officers, border patrol agents, first responders, and law enforcement officers whose duties include counteracting the illicit trafficking of radioactive and nuclear materials as well as counteracting the efforts to use these materials for terrorism.

The instruments are each equipped with a CsI(Tl) and a LiI(Eu) scintillation detector to alert the user that radiation levels have exceeded the threshold value. The PM1703GN series of instruments perform the following functions:

- ***Detect gamma and neutron radiation sources, even when they are shielded***
- ***Search for and locate gamma or neutron radiation sources***
- ***Alert the user to the presence of a radiation source through audible and vibrating alarms***
- ***Record and store data for up to 1000 events in the instruments' non-volatile memory***
- ***Transmit all recorded data via an infrared channel for data processing and analysis***

Once the instrument is turned on, it automatically begins taking measurements and storing the background radiation information. The instruments can detect even the slightest increase that exceeds the radiation background level. The instruments' advanced processing algorithm enables the user to update the background levels and modify the alarm thresholds to avoid false alarms.

The PM1703GN is designed to ensure adequate adaptation to the changing background level (during mobile operations) allowing the instrument to locate a radioactive source in a changing environment. For example, the instrument can detect radiation sources when the background levels decrease due to radiation shielding or when the background radiation intensity increases. The PM1703GN will successfully locate the source in a changing environment.

The PM1703GN allows for easy and comfortable operation with its ergonomic, small and light-weight design. Additionally, the PM1703GN's hermetically sealed and shockproof case and the LCD screen's fluorescent backlight allow for easy operation and precision even in the harshest, most unfavorable environments or under extreme weather conditions.

SPECIFICATIONS

PM1703GN - Personal Radiation Detector	
Detector type	
- gamma	CsI (TI)
- neutron	LiI (Eu)
Energy range	
- for gamma	0.033 – 3.0 MeV
- for neutron	from thermal to 14.0 MeV
Time of measurement	0.25 s
Range of n coefficient (number of mean square deviation of ambient background σ) Step	from 1 to 9.9 0.1
Accuracy of exposure rate measurement over the range of 10 to 4000 μR/h on ¹³⁷Cs in collimated radiation	\pm 30%
Count time:	
- in background updating mode	36 s
- in the search mode	2 s
- Special nuclear materials	
Additional functions	PC communication mode (IR)
Power supply	One AA battery
Battery life time (not more than 5 min/24 hours), not less	1000 h
Battery discharge warning	indication on LCD
Drop test on concrete floor	2.3 ft (0.7 m)
Protection degree of case	IP67
Operating conditions:	
- temperature range	-22°F to 122°F (-30°C to 50°C) (-22°F to 5°F (-30°C to -15°C) only audible and vibration alarm is available)
- relative humidity at 95°F (35°C)	up to 98 %
- pressure	from 10.2 to 15.5 psi (from 70 to 106.6 kPa)
Weight (with battery), max	8.1 oz (230 g)
Dimensions	3.43" x 2.83" x 1.57"



PM1704GN – Radiation Detector – Identifier

This is a new class of small (pocket-sized) pager-style gamma and neutron spectroscopic personal radiation detector that combines the functionality of a radiation detector with primary radionuclide identification. The distinctive feature of this class of devices is the autonomous primary radionuclide identification of radioactive sources that does not require a connection to a remote unit (smartphone/PC/laptop/PDA, etc.), even in the presence of shields, containers or other forms of physical protection of radiation sources that have a weakening and scattering influence. Identification results appear on a bright, easily read color LCD display. The results show not only designations of identified radionuclides, but also classes to which they relate in accordance with the recommendations of the International Atomic Energy Agency (IAEA) - naturally occurring radiation materials (NORM), medical isotopes, industrial sources or special nuclear materials (SNM). The PM1704GN also has a built-in Dictaphone to record comments on the measured spectra. It has a USB interface for communication with a Smartphone, PC, laptop, PDA, etc. User software is automatically downloaded from the non-volatile memory of the device when it is connected. The PM1704GN has a scintillation $\text{Li}_6\text{I}(\text{Eu})$ detector for the search and detection of neutron radiation sources.

Specifications - PM1704GN

Weight: 280 grams/9.9 ounces

Size: 130x60x46 mm/5 1/9"x2 1/3"x1 8/9"

Communications: USB port (meets ANSI 42.42. Response time and range)

Detector Type: Gamma: CsI(Tl) Neutron: $\text{Li}_6\text{I}(\text{Eu})$

Operating System:

Response Time: 0.25 second

Data Communications



Radionuclide Identification:

Special Nuclear Materials (SNM)	^{233}U , ^{235}U , ^{237}Np , ^{239}Pu , ^{252}Cf
Medical Radionuclides	^{18}F , ^{67}Ga , ^{51}Cr , ^{75}Se , ^{89}Sr , ^{99}Mo , $^{99\text{m}}\text{Tc}$, ^{103}Pd , ^{111}In , ^{123}I , ^{131}I , ^{153}Sm , ^{201}Tl , ^{133}Xe
Naturally Occurring Radioactive Materials (NORM)	^{40}K , ^{226}Ra , ^{232}Th and daughters, ^{238}U and daughters
Industrial Radionuclides	^{57}Co , ^{60}Co , ^{133}Ba , ^{137}Cs , ^{192}Ir , ^{226}Ra , ^{241}Am
Standards Compliance	ITRAP (IAEA) requirements, ANSI N42.32 ANSI N42.33 ANSI N42.42 ANSI N 42.48
Alarm Type	Visual, audible, vibration
Data Recording	Up to 100 spectra
Environmental Protection	IP65
Drop Test on Concrete Floor	1.5 m
Power Supply	one AA standard or rechargeable battery
Battery Life Time	Up to 300 hours
Operating Temperature	-20°C to 50°C (-4°F to 122°F)



PM1704 – Radiation Detector – Identifier

PM1704 (basic model), with a built-in scintillation CsI(Tl) detector, which searches for gamma radiation sources, accumulates gamma-spectra and identifies radioactive sources.

This is a new class of small (pocket-sized) pager-style gamma and neutron spectroscopic personal radiation detector that combines the functionality of a radiation detector with primary radionuclide identification. The distinctive feature of this class of devices is the autonomous primary radionuclide identification of radioactive sources that does not require a connection to a remote unit (smartphone/PC/laptop/PDA, etc.), even in the presence of shields, containers or other forms of physical protection of radiation sources that have a weakening and scattering influence. Identification results appear on a bright, easily read color LCD display. The results show not only designations of identified radionuclides, but also classes to which they relate in accordance with the recommendations of the International Atomic Energy Agency (IAEA) - naturally occurring radiation materials (NORM), medical isotopes, industrial sources. The PM1704 also has a built-in Dictaphone to record comments on the measured spectra. It has a USB interface for communication with a Smartphone, PC, laptop, PDA, etc. User software is automatically downloaded from the non-volatile memory of the device when it is connected.

SPECIFICATIONS

Detector

gamma

CsI(Tl)

neutron

✘

Sensitivity	
for ¹³⁷ Cs, no less	100 cps/(μ Sv/h)
for ²⁴¹ Am, no less	250 cps/(μ Sv/h)
Energy range	
gamma	0.033 - 3.0 MeV
neutron	✘
Dose Rate	
gamma	0.01 – 130 μ Sv/h (1 μ R/h – 13 mR/h)
neutron	✘
Dose	✘
Accuracy	\pm 30%
Response time	0.25 s
Radionuclide identification	
Special nuclear materials (SNM)	²³³ U, ²³⁵ U, ²³⁷ Np, ²³⁹ Pu (function available only upon customer request)
Medical radionuclides	¹⁸ F, ⁶⁷ Ga, ⁵¹ Cr, ⁷⁵ Se, ⁸⁹ Sr, ⁹⁹ Mo, ^{99m} Tc, ¹⁰³ Pd, ¹¹¹ In, ¹²³ I, ¹³¹ I, ¹⁵³ Sm, ²⁰¹ Tl, ¹³³ Xe
Naturally occurring radioactive materials (NORM)	⁴⁰ K, ²²⁶ Ra, ²³² Th and daughters, ²³⁸ U and daughters
Industrial radionuclides	⁵⁷ Co, ⁶⁰ Co, ¹³³ Ba, ¹³⁷ Cs, ¹⁹² Ir, ²²⁶ Ra, ²⁴¹ Am
Standards compliance	ITRAP (IAEA) requirements, ANSI N42.32 (most relevant parts), ANSI N42.33 (most relevant parts), ANSI N42.42
Alarm type	Visual, audible, vibration
Data recording	Up to 100 spectra
Environmental protection	IP65
Drop test on concrete floor	1.5 m
Power supply	one AA standard or rechargeable battery
Battery life time	Up to 300 hours
Operating temperature	-20°C to 50°C (-4°F to 122°F)
Size (without holster)	130x60x46 mm (5 1/9"x2 1/3"x1 8/9")
Weight	
(without holster)	310 g
(with holster)	✘



1000 26th St. South Arlington, Virginia 22202
Tel: 703-593-0194 Fax: 703-684-1407
E-mail techawk@comcast.net

Low battery warning
Overload indication
gamma
neutron
PC Communication

LCD

Visual and audial



USB



PM1704M – Radiation Detector – Identifier-Dosimeter

PM1704M additionally to the basic model has a built-in G-M tube, which expands the dose rate measurement range to 10 Sv/h (1000 R/h).

This is a new class of small (pocket-sized) pager-style gamma and neutron spectroscopic personal radiation detector that combines the functionality of a radiation detector with primary radionuclide identification. The distinctive feature of this class of devices is the autonomous primary radionuclide identification of radioactive sources that does not require a connection to a remote unit (smartphone/PC/laptop/PDA, etc.), even in the presence of shields, containers or other forms of physical protection of radiation sources that have a weakening and scattering influence. Identification results appear on a bright, easily read color LCD display. The results show not only designations of identified radionuclides, but also classes to which they relate in accordance with the recommendations of the International Atomic Energy Agency (IAEA) - naturally occurring radiation materials (NORM), medical isotopes, industrial sources. The PM1704M also has a built-in Dictaphone to record comments on the measured spectra. It has a USB interface for communication with a Smartphone, PC, laptop, PDA, etc. User software is automatically downloaded from the non-volatile memory of the device when it is connected.

Main features:

- Fast and reliable identification of isotopes, with results displayed on the device itself
- Built-in highly sensitive CsI(Tl) spectroscopic detector (all modifications)
- G-M tube that expands the range of dose rate measurement (PM1704M)
- Simplicity and ease of use

- Bright, color LCD that allows easy reading even in bright sunlight
- Built-in dictaphone
- USB interface
- Audible, vibration and visual alarms
- Lightweight and compact
- Storage of up to 100 gamma spectra in non-volatile memory
- Shockproof hermetic case (IP65)

PM1704M

Detector

gamma Csl(Tl) and G-M tube
 neutron ✖

Sensitivity

for ¹³⁷Cs, no less 100 cps /(μ Sv/h)
 for ²⁴¹Am, no less 250 cps /(μ Sv/h)

Energy range

gamma 0.033 - 3.0 MeV
 neutron ✖

Dose Rate

gamma 0.01 μ Sv/h – 13 Sv/h
 (1 μ R/h – 1300 R/h)
 neutron ✖

Dose

✖

Accuracy

\pm 30%

Response time

0.25 s

Radionuclide identification

Special nuclear materials (SNM) ²³³U, ²³⁵U, ²³⁷Np, ²³⁹Pu
 (function available only upon customer request)

Medical radionuclides ¹⁸F, ⁶⁷Ga, ⁵¹Cr, ⁷⁵Se, ⁸⁹Sr, ⁹⁹Mo, ^{99m}Tc, ¹⁰³Pd, ¹¹¹In, ¹²³I, ¹³¹I, ¹⁵³Sm, ²⁰¹Tl, ¹³³Xe

Naturally occurring radioactive materials (NORM) ⁴⁰K, ²²⁶Ra, ²³²Th and daughters, ²³⁸U and daughters

Industrial radionuclides ⁵⁷Co, ⁶⁰Co, ¹³³Ba, ¹³⁷Cs, ¹⁹²Ir, ²²⁶Ra, ²⁴¹Am

Standards compliance

ITRAP (IAEA) requirements,
 ANSI N42.32 (most relevant parts),
 ANSI N42.33 (most relevant parts),



Alarm type	ANSI N42.42, IEC 60846 (most relevant parts), IEC 62401 (most relevant parts)
Data recording	Visual, audible, vibration
Environmental protection	Up to 100 spectra
Drop test on concrete floor	IP65
Power supply	1.5 m
Battery life time	one AA standard or rechargeable battery
Operating temperature	Up to 300 hours
Size (without holster)	-20°C to 50°C (-4°F to 122°F)
Weight	130x60x46 mm (5 1/9"x2 1/3"x1 8/9")
(without holster)	330 g
(with holster)	✘
Low battery warning	LCD
Overload indication	
gamma	Visual and audible
neutron	✘
PC Communication	USB



PRICES

Mfr Name	Mfr Part No.	Dlr Part No.	Item Descriptions	GSA Price
SIN 66-621				
Polimaster Inc.	PM1401K3	PM1401K3	The PM1401K is a unique light-weight multipurpose hand held radionuclide identifier designed for easy detection and location of alpha, beta, gamma and neutron radiation sources, precise measurement of the alpha and beta surface contamination levels and gamma dose rate, and reliable identification of the radioisotopes. For example, the PM1401K3 is able to distinguish between naturally occurring radiation materials (NORM), medical isotopes, industrial sources of radiation (which are potentially dangerous to the general population) and sources of radiation that are inherently dangerous, such as weapons-grade nuclear materials.	\$8,750.63
Polimaster Inc.	PM1410	PM1410	Universal multifunctional portable device (the class of Radionuclide Identification Devices) designed to search, detect, localize and identify radioactive and nuclear materials, and for quick and accurate measurements of dose rate and count rate (ensuring radiation safety while localizing and identifying radioactive sources). The PM1410 has three built-in detectors: highly sensitive NaI spectroscopic detector of gamma radiation, G-M tube for registering high dose rate, and neutron detector (optional).	\$14,935.08
Polimaster Inc.	PM1703MO-1	PM1703MO-1	The new energy-compensated PM1703MO-1 combines the functions of a radiation detector (CsI based detector) and radiation dose measurement and accumulation meter (GM tube based dosimeter). This unit is small in size and offers the highest performance of an instrument of this type currently available on the market. It meets ANSI N42.32 and ANSI N42.33 standards and specifications and can be used in health physics as well as security applications. Additionally the PM1703MO-1 utilizes Polimaster's Polidenty software to identify isotopes and provide networking capability.	\$1,281.25
Polimaster Inc.	PM1703GN	PM1703GN	Search monitor – the first in the world unique gamma-neutron pager of the new generation. The instrument can be used not only as an efficient instrument to search for and locate gamma and neutron radiation sources but also as an alarming rate meter to respond to changes in the background radiation environment in a controlled area.	\$2,659.50
Polimaster Inc.	PM1704GN	PM1704GN	This is a new class of small (pocket-sized) pager-style gamma and neutron spectroscopic personal radiation detector that combines the functionality of a radiation detector with primary radionuclide identification. The distinctive feature of this class of devices is the autonomous primary radionuclide identification of radioactive sources that does not require a connection to a remote unit (smartphone/PC/laptop/PDA, etc.), even in the presence of shields, containers or other forms of physical protection of radiation sources that have a weakening and scattering influence. Identification results appear on a bright, easily read color LCD display. The results show not only designations of identified radionuclides,	\$3,615.21



Mfr Name	Mfr Part No.	Dlr Part No.	Item Descriptions	GSA Price
			<p>but also classes to which they relate in accordance with the recommendations of the International Atomic Energy Agency (IAEA) - naturally occurring radiation materials (NORM), medical isotopes, industrial sources or special nuclear materials (SNM). The PM1704GN also has a built-in Dictaphone to record comments on the measured spectra. It has a USB interface for communication with a Smartphone, PC, laptop, PDA, etc. User software is automatically downloaded from the non-volatile memory of the device when it is connected. The PM1704GN has a scintillation Li₆I(Eu) detector for the search and detection of neutron radiation sources.</p>	
Polimaster Inc.	PM1704M	PM1704M	<p>This is a new class of small (pocket-sized) pager-style gamma and neutron spectroscopic personal radiation detector that combines the functionality of a radiation detector with primary radionuclide identification. The distinctive feature of this class of devices is the autonomous primary radionuclide identification of radioactive sources that does not require a connection to a remote unit (smartphone/PC/laptop/PDA, etc.), even in the presence of shields, containers or other forms of physical protection of radiation sources that have a weakening and scattering influence. Identification results appear on a bright, easily read color LCD display. The results show not only designations of identified radionuclides, but also classes to which they relate in accordance with the recommendations of the International Atomic Energy Agency (IAEA) - naturally occurring radiation materials (NORM), medical isotopes, industrial sources or special nuclear materials (SNM). The PM1704M also has a built-in Dictaphone to record comments on the measured spectra. It has a USB interface for communication with a Smartphone, PC, laptop, PDA, etc. User software is automatically downloaded from the non-volatile memory of the device when it is connected.</p>	\$3,252.70
Polimaster Inc.	PM1704	PM1704	<p>This is a new class of small (pocket-sized) pager-style gamma and neutron spectroscopic personal radiation detector that combines the functionality of a radiation detector with primary radionuclide identification. The distinctive feature of this class of devices is the autonomous primary radionuclide identification of radioactive sources that does not require a connection to a remote unit (smartphone/PC/laptop/PDA, etc.), even in the presence of shields, containers or other forms of physical protection of radiation sources that have a weakening and scattering influence. Identification results appear on a bright, easily read color LCD display. The results show not only designations of identified radionuclides, but also classes to which they relate in accordance with the recommendations of the International Atomic Energy Agency (IAEA) - naturally occurring radiation materials (NORM), medical isotopes, industrial sources or special nuclear materials (SNM). The PM1704 also has a built-in Dictaphone to record comments</p>	\$2,962.52



Mfr Name	Mfr Part No.	Dlr Part No.	Item Descriptions	GSA Price
			on the measured spectra. It has a USB interface for communication with a Smartphone, PC, laptop, PDA, etc. User software is automatically downloaded from the non-volatile memory of the device when it is connected.	
SIN 66-503				
Polimaster Inc.	SCPM1401K31	SCPM1401K31	1 year extended warranty for PM1401K3	\$1,126.91
Polimaster Inc.	SCPM1401K32	SCPM1401K32	2 year extended warranty for PM1401K3	\$1,300.28
Polimaster Inc.	SCPM1401K33	SCPM1401K33	3 year extended warranty for PM1401K3	\$1,473.65
Polimaster Inc.	SCPM14101	SCPM14101	1 year extended warranty for PM1410	\$1,941.56
Polimaster Inc.	SCPM14102	SCPM14102	2 year extended warranty for PM1410	\$2,240.26
Polimaster Inc.	SCPM14103	SCPM14103	3 year extended warranty for PM1410	\$2,538.96
Polimaster Inc.	SC1703MO-11	SC1703MO1	1 year extended warranty for PM1703MO-1	\$167.51
Polimaster Inc.	SC1703MO-12	SC1703MO2	2 year extended warranty for PM1703MO-1	\$226.12
Polimaster Inc.	SC1703MO-13	SC1703MO3	3 year extended warranty for PM1703MO-1	\$270.77
Polimaster Inc.	SC1703GN1	SC1703GN1	1 year extended warranty for PM1703GN	\$345.75
Polimaster Inc.	SC1703GN2	SC1703GN2	2 year extended warranty for PM1703GN	\$398.90
Polimaster Inc.	SC1703GN3	SC1703GN3	3 year extended warranty for PM1703GN	\$452.10
Polimaster Inc.	SC1704GN1	SC1704GN1	1 year extended warranty for PM1704GN	\$469.98
Polimaster Inc.	SC1704GN2	SC1704GN2	2 year extended warranty for PM1704GN	\$542.28
Polimaster Inc.	SC1704GN3	SC1704GN3	3 year extended warranty for PM1704GN	\$614.59
Polimaster Inc.	SC17041	SC17041	1 year extended warranty for PM1704	\$385.39
Polimaster Inc.	SC17042	SC17042	2 year extended warranty for PM1704	\$444.33
Polimaster Inc.	SC17043	SC17043	3 year extended warranty for PM1704	\$503.27
Polimaster Inc.	SC1704M1	SC1704M1	1 year extended warranty for PM1704M	\$422.57
Polimaster Inc.	SC1704M2	SC1704M2	2 year extended warranty for PM1704M	\$487.86
Polimaster Inc.	SC1704M3	SC1704M3	3 year extended warranty for PM1704M	\$552.15



BPA NUMBER _____

(CUSTOMER NAME)
BLANKET PURCHASE AGREEMENT

Pursuant to GSA Federal Supply Schedule Contract Number(s) _____, Blanket Purchase Agreements, the Contractor agrees to the following terms of a Blanket Purchase Agreement (BPA) **EXCLUSIVELY WITH (Ordering Agency)**:

(1) The following contract items can be ordered under this BPA. All orders placed against this BPA are subject to the terms and conditions of the contract, except as noted below:

MODEL NUMBER/PART NUMBER	*SPECIAL BPA DISCOUNT/PRICE
---------------------------------	------------------------------------

_____	_____
_____	_____

(2) Delivery:

DESTINATION	DELIVERY SCHEDULE/DATES
--------------------	--------------------------------

_____	_____
_____	_____

(3) The Government estimates, but does not guarantee, that the volume of purchases through this agreement will be _____.

(4) This BPA does not obligate any funds.

(5) This BPA expires on _____ or at the end of the contract period, whichever is earlier.

(6) The following office(s) is hereby authorized to place orders under this BPA:

OFFICE	POINT OF CONTACT
---------------	-------------------------

_____	_____
_____	_____



- (7) Orders will be placed against this BPA via Electronic Data Interchange (EDI), FAX, or paper.
- (8) Unless otherwise agreed to, all deliveries under this BPA must be accompanied by delivery tickets or sales slips that must contain the following information as a minimum:
- (a) Name of Contractor;
 - (b) Contract Number;
 - (c) BPA Number;
 - (d) Model Number or National Stock Number (NSN);
 - (e) Purchase Order Number;
 - (f) Date of Purchase;
 - (g) Quantity, Unit Price, and Extension of Each Item (unit prices and extensions need not be shown when incompatible with the use of automated systems; provided, that the invoice is itemized to show the information); and
 - (h) Date of Shipment.
- (9) The requirements of a proper invoice are specified in the Federal Supply Schedule contract. Invoices will be submitted to the address specified within the purchase order transmission issued against this BPA.
- (10) The terms and conditions included in this BPA apply to all purchases made pursuant to it. In the event of an inconsistency between the provisions of this BPA and the Contractor's invoice, the provisions of this BPA will take precedence.



BASIC GUIDELINES FOR USING “CONTRACTOR TEAM ARRANGEMENTS”

Federal Supply Schedule Contractors may use “Contractor Team Arrangements” (see FAR 9.6) to provide solutions when responding to a customer agency requirements.

These Team Arrangements can be included under a Blanket Purchase Agreement (BPA). BPAs are permitted under all Federal Supply Schedule contracts.

Orders under a Team Arrangement are subject to terms and conditions or the Federal Supply Schedule Contract.

Participation in a Team Arrangement is limited to Federal Supply Schedule Contractors.

Customers should refer to FAR 9.6 for specific details on Team Arrangements.

Here is a general outline on how it works:

- The customer identifies their requirements.
- Federal Supply Schedule Contractors may individually meet the customers needs, or -
- Federal Supply Schedule Contractors may individually submit a Schedules “Team Solution” to meet the customer’s requirement.
- Customers make a best value selection.