

# POLIMASTER



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Polimaster is a global leader in radiation detection and monitoring solutions, offering a comprehensive suite of instruments designed to detect, identify, and measure ionizing radiation across various environments. Their product range includes handheld monitors, personal electronic dosimeters, portable isotope identifiers, portal monitors, and mobile detection systems, all engineered to meet the rigorous demands of security, emergency response, and industrial applications.



As the need for reliable radiation detection grows in sectors such as homeland security, nuclear energy, and environmental monitoring, Polimaster provides advanced tools that combine precision, durability, and user-friendly interfaces. Their handheld monitors and portable isotope identifiers enable rapid on-site assessment of radiological threats, while personal dosimeters ensure continuous monitoring of individual exposure levels. Portal monitors and mobile detection systems offer scalable solutions for screening people, vehicles, and cargo at critical checkpoints.

With a commitment to innovation and quality, Polimaster's instruments are trusted by professionals worldwide to safeguard against radiological hazards and ensure public safety.

Enhance your radiation detection capabilities with Polimaster's state-of-the-art solutions, designed to provide accurate, real-time information when it matters most.

# HANDHELD MONITORS





# PM1401K-3M Multipurpose Hand-Held Radiation Monitor/Identifier

PM1401K-3M model is a gamma-only radiation monitor without a neutron detector which is designed for quick and reliable measurement of gamma dose rate, detection of alpha, beta, and gamma sources, measurement of alpha and beta radiation flux density, acquisition of gamma spectra, identification of radioisotopes, and measurement of food/soil contamination with  $^{137}\text{Cs}$

## Features

- Storage of up to 10000 events and 1000 spectra
- Audible, visual and external vibration alarm
- Categorization of identified radionuclides
- Shock and water resistant IP65 case
- Adjustable radionuclide libraries
- USB communication with PC
- Built-in GPS module

## Applications

- Customs and border control
- HAZMAT and CBRNe teams
- Emergency services
- Police and security
- Industrial facilities
- First responders





# PM1401K-3P Multipurpose Hand-Held Radiation Monitor/Identifier

Gamma-neutron model suitable for various radiation control tasks.

The **PM1401K-3 series** of radiation monitors comprises a wide range of all-in-one devices for radiation detection, dose rate, contamination measurements, spectrometry, and radionuclide identification.

The **PM1401K-3P model** is the **gamma-neutron model** suitable for various radiation control tasks, including measurement of ambient dose equivalent rate, detection of alpha, beta, gamma, and neutron sources, measurement of alpha and beta radiation flux density, acquisition of gamma spectra, identification of radioisotopes, and measurement of food/soil contamination with  $^{137}\text{Cs}$ .

## Features

- Storage of up to 10000 events and 1000 spectra
- Audible, visual, and external vibration alarm
- Categorization of identified radionuclides
- Shock and water-resistant IP65 case
- Adjustable radionuclide libraries
- USB communication with PC
- Built-in GPS module

## Operation principle

The PM1401K-3P continuously measures ambient dose equivalent rate  $\dot{H}^*(10)$  of photon radiation in the wide energy range, detects alpha, beta, gamma, and neutron radiation, measures alpha and beta radiation flux density, operates as a gamma radiation spectrometer and radioisotope identifier, and measures food/soil contamination with  $^{137}\text{Cs}$  radionuclide.



## PoliPack® G-S Backpack Radiation Detector



Spectroscopic Gamma-only Backpack Radiation Detector.

The **PoliPack® G-S** is a **gamma-only** Backpack-Based Radiation Detection System (BRD) equipped with spectroscopic gamma detectors for identifying radionuclides. It is carried in a compact backpack and controlled remotely via the wired control unit or a smartphone with the free Polismart® iOS and Android App.

The **PoliPack® BRDs** are rugged, lightweight, and fast-deploying devices that provide prompt and reliable detection, location, and identification of multiple and masked isotopes. The device is ideal for undercover radiation surveys in crowded areas, addressing the problems of orphaned and maliciously introduced sources and ensuring security before and during mass events. Radionuclides libraries are uploaded in the BRD and can be customized by users.



## PoliPack® GN Backpack Radiation Detector



Gamma-Neutron Backpack Radiation Detector.

The **PoliPack® GN** is a **gamma-neutron** Backpack-Based Radiation Detection System (BRD) equipped with a highly sensitive portable radiation monitor carried in a compact backpack and controlled remotely via the wired control unit or a smartphone with the free Polismart® iOS and Android App.

The **PoliPack® BRDs** are rugged, lightweight, and fast deployable devices that provide prompt and reliable detection, location, and identification of multiple and masked isotopes. The device is ideal for undercover radiation surveys in crowded areas, addressing the problems of orphaned and maliciously introduced sources and ensuring security before and during mass events.





## PoliPack® G Backpack Radiation Detector



Gamma-only Backpack Radiation Detector.

The **PoliPack® G** is a **gamma-only** Backpack-Based Radiation Detection System (BRD) equipped with a highly sensitive portable radiation monitor carried in a compact backpack and controlled remotely via the wired control unit or a smartphone with the free Polismart® iOS and Android App.

The **PoliPack® BRDs** are rugged, lightweight, and fast-deploying devices that provide prompt and reliable detection, location, and identification of multiple and masked isotopes. The device is ideal for undercover radiation surveys in crowded areas, addressing the problems of orphaned and maliciously introduced sources and ensuring security before and during mass events.



## PoliPack® GN-S Backpack Radiation Detector



Spectroscopic Gamma-Neutron Backpack Radiation Detector.

The **PoliPack® GN-S** is a **gamma-neutron** Backpack-Based Radiation Detection System (BRD) equipped with **spectroscopic** gamma detectors for identifying radionuclides. It is carried in a compact backpack and controlled remotely via the wired control unit or a smartphone with the free Polismart® iOS and Android App.

The **PoliPack® BRDs** are rugged, lightweight, and fast deployable devices that provide prompt and reliable detection, location, and identification of multiple and masked isotopes. The device is ideal for undercover radiation surveys in crowded areas, addressing the problems of orphaned and maliciously introduced sources and ensuring security before and during mass events. Radionuclides libraries are uploaded in the BRD and can be customized by users.



# PERSONAL ELECTRONIC DOSIMETERS



## PM1703GNA-II MBT Personal Radiation Detector/Dosimeter



Gamma-neutron Personal Radiation Detector/Dosimeter.

The **PM1703GNA-II MBT** is a **gamma-neutron** modification equipped with a **Bluetooth** module and a **Geiger-Mueller counter** for extended measurement of the **personal dose rate up to 200 mSv/h** and **personal dose up to 10 Sv**.

The **PM1703®-II series** of personal radiation detectors are extremely sensitive and robust devices that detect and locate even trace amounts of radioactive materials.

Equipped with a clip for multiple wearing options and easy to operate even for non-specialists, the PRDs became the perfect fit as Radiation Pagers for public security agencies, including border control, rescue teams, police, and anti-terrorist units, and first responders that need to quickly search for radioactive materials before and during public mass events.

### Features

- ANSI N42.32-2016 and IEC 62401:2017 compliance
- NORM-suppression algorithm for differentiating color-coded alarms triggered by natural or man-made radiation materials
- Dedicated 0-9 scale mode with unitless dose rate indication allowing for ease of use and minimal training
- Personal dose accumulation up to 10 Sv
- Extended dose rate measurement ranges up to 200 mSv/h
- Operation in extreme temperatures from -40 °C to 50 °C
- Long-life alkaline or rechargeable battery for 800 hours
- Shockproof hermetic case IP65
- Audible, visual, and vibration alarms
- Free Polismart® iOS and Android app for advanced operation
- USB and Bluetooth communication



## PM1703GNA-II/BT Personal Radiation Detector



Gamma-neutron Personal Radiation Detector.

The **PM1703GNA-II** is a **gamma-neutron** modification equipped with a high-sensitive scintillator for measurement of the **personal dose rate up to 300  $\mu$ Sv/h**.

The **PM1703®-II series** of personal radiation detectors are extremely sensitive and robust devices that detect and locate even trace amounts of radioactive materials.

Equipped with a clip for multiple wearing options and easy to operate even for non-specialists, the PRDs became the perfect fit as Radiation Paggers for public security agencies, including border control, rescue teams, police, and anti-terrorist units, and first responders that need to quickly search for radioactive materials before and during public mass events.

### Features

- ANSI N42.32-2016 and IEC 62401:2017 compliance
- NORM-suppression algorithm for differentiating color-coded alarms triggered by natural or man-made radiation materials
- Dedicated 0-9 scale mode with unitless dose rate indication allowing for ease of use and minimal training
- Operation in extreme temperatures from -40 °C to 50 °C
- Long-life alkaline or rechargeable battery for 800 hours
- Shockproof hermetic case IP65
- Audible, visual, and vibration alarms
- Free Polismart® iOS and Android app for advanced operation
- USB and Bluetooth (PM1703GNA-II BT) communication



## PM1703MO-II BT Personal Radiation Detector/Dosimeter



Gamma-only Personal Radiation Detector/Dosimeter.

The **PM1703MO-II BT** is a **gamma-only** modification equipped with a **Bluetooth** module and a **Geiger-Mueller counter** for extended measurement of the **personal dose rate up to 200 mSv/h** and **personal dose up to 10 Sv**.

The **PM1703®-II series** of personal radiation detectors (PRD) are extremely sensitive and robust devices that detect and locate even trace amounts of radioactive materials.

Equipped with a clip for multiple wearing options and easy to operate even for non-specialists, the PRDs became the perfect fit as Radiation Pagers for public security agencies, including border control, rescue teams, police, and anti-terrorist units, and first responders that need to quickly search for radioactive materials before and during public mass events.

### Features

- ANSI N42.32-2016 and IEC 62401:2017 compliance
- NORM-suppression algorithm for differentiating color-coded alarms triggered by natural or man-made radiation materials
- Dedicated 0-9 scale mode with unitless dose rate indication allowing for ease of use and minimal training
- Personal dose accumulation up to 10 Sv
- Extended dose rate measurement ranges up to 200 mSv/h
- Operation in extreme temperatures from -40 °C to 50 °C
- Long-life alkaline or rechargeable battery for 1000 hours
- Shockproof hermetic case IP65
- Audible, visual, and vibration alarms
- Free Polismart® iOS and Android app for advanced operation
- USB and Bluetooth communication



## PM1703MA-II/BT Personal Radiation Detector



Gamma-only Personal Radiation Detector.

The **PM1703MA-II** is a **gamma-only** Personal Radiation Detector (PRD) equipped with a high-sensitive scintillator for measurement of the **personal dose rate up to 300  $\mu\text{Sv/h}$** .

The **PM1703®-II series** of PRDs are extremely sensitive and robust devices that detect and locate even trace amounts of radioactive materials.

Equipped with a clip for multiple wearing options and easy to operate even for non-specialists, the PRDs became the perfect fit as Radiation Pagers for public security agencies, including border control, rescue teams, police, and anti-terrorist units, and first responders that need to quickly search for radioactive materials before and during public mass events.

### Features

- ANSI N42.32-2016 and IEC 62401:2017 compliance
- NORM-suppression algorithm for differentiating color-coded alarms triggered by natural or man-made radiation materials
- Dedicated 0-9 scale mode with unitless dose rate indication allowing for ease of use and minimal training
- Operation in extreme temperatures from  $-40\text{ }^{\circ}\text{C}$  to  $50\text{ }^{\circ}\text{C}$
- Long-life alkaline or rechargeable battery for 1000 hours
- Shockproof hermetic case IP65
- Audible, visual, and vibration alarms
- Free Polismart® iOS and Android app for advanced operation
- USB and Bluetooth (PM1703MA-II BT) communication





## PM1610B X-Ray and Gamma Radiation Personal Dosimeter



Extended range X-ray (continuous/pulsed) and gamma radiation personal dosimeter with replaceable battery.

The **PM1610B** model has an extended dose measurement range of up to 20 Sv and improved accuracy of the dose rate measurement. Instead of a rechargeable battery, this model is **powered by an AAA (LR03) battery** which is easy to replace, affordable, and safe to handle.

The **PM1610 series** of electronic personal dosimeters (**EPDs**) are intended for measurement of the personal dose equivalent  $H_p(10)$  and personal dose equivalent rate  $\dot{H}_p(10)$ . The dosimeters are suitable for multiple applications providing the measurement of X-ray (continuous and pulsed) and gamma radiation in the wide energy range.

The **PM1610** dosimeters have unique features for operation in workplaces requiring the use of personal protective equipment or in a harsh environment, including a shockproof rubberized case, a high contrast display with a fluorescent backlight, and two big buttons for easy use even while wearing protective gloves.

- Easily replaceable long-life AAA battery: at least 480 hours
- Extended energy range: from 20 keV to 10 MeV
- Wide dose and dose rate measurement ranges
- Measurement of pulsed photon radiation
- Simple navigation with two large buttons
- Audible, visual, and vibration alarms
- USB communication with PC
- Shockproof hermetic case
- Small and lightweight





# PM1610 X-Ray and Gamma Radiation Personal Dosimeter



X-ray (continuous/pulsed) and gamma radiation personal dosimeter.

The **PM1610 series** of electronic personal dosimeters (**EPDs**) are intended for measurement of the personal dose equivalent  $H_p(10)$  and personal dose equivalent rate  $\dot{H}_p(10)$ . The dosimeters are suitable for multiple applications providing the measurement of X-ray (continuous and pulsed) and gamma radiation in the wide energy range.

The **PM1610** dosimeters have unique features for operation in workplaces requiring the use of personal protective equipment or in a harsh environment, including a shockproof rubberized case, a high contrast display with a fluorescent backlight, and two big buttons for easy use even while wearing protective gloves.

## Features

- Long-life rechargeable battery: at least 650 hours
- Extended energy range: from 20 keV to 10 MeV
- Wide dose and dose rate measurement ranges
- Measurement of pulsed photon radiation
- Simple navigation with two large buttons
- Audible, visual, and vibration alarms
- USB communication with PC
- Shockproof hermetic case
- Small and lightweight



## PM1605BT Personal Radiation Monitor/Dosimeter



Ambient dosimeter for use in extreme environments.

The **PM1605BT** electronic dosimeter is equipped with a Geiger-Mueller counter for extended measurement of the **ambient dose equivalent** and **ambient dose equivalent rate**. Instruments can search, detect, and locate radioactive sources, alert the user with audible, visual, and vibration alarms, and transmit stored data to a PC or smartphone.

The dosimeter is designed to withstand **extreme environmental conditions** such as limited visibility, raised noise, high temperatures, exposure to seawater, shock, and falls. Its control panel with two big buttons allows using protective gloves while operating the instrument.

The instruments are recommended for personal radiation protection of first responders, HAZMAT teams, civil defense, firefighters, and the other divisions that deal with radiological emergencies.

### Features

- IP68 case for operation in extreme environmental conditions
- Highly visible LEDs on the front and top panels for alarm indication
- Removable clip for secure fastening to a belt or a pocket
- Large buttons suitable for use with protective gloves
- Operating temperature from -30 °C to 65 °C
- Ambient dose equivalent rate up to 10 Sv/h
- Ambient dose equivalent up to 100 Sv
- Bluetooth and USB communication
- Battery lifetime of at least 9 months
- Large and easy-to-read LCD



# PoliSimeter™ ERB Electronic Personal Dosimeter



X-ray (continuous/pulsed) and gamma radiation personal dosimeter with an **extended range** of dose measurement and a replaceable **battery**.

**PoliSimeter™ series** of electronic personal dosimeters (EPDs) is the **next generation** of the well-known **PM1610 series** by Polimaster, which was a trusted solution on the market for nearly 15 years, with over 20,000 dosimeters sold. Building on the legacy of the PM1610, the PoliSimeter offers enhanced capabilities for the extended measurement of **personal dose Hp(10)** and **dose rate  $\dot{H}_p(10)$**  of both continuous and pulsed X-ray and gamma radiation. The PoliSimeter is designed to meet the latest industry requirements and features a USB-C port for convenient connectivity and data transfer.

**PoliSimeter ERB model** has an **extended range** of dose measurement of **up to 20 Sv** for use in high-radiation environments, providing critical safety and monitoring functionality. Instead of a rechargeable battery, this model is powered by an **AAA battery**, which is easy to replace, affordable and safe to handle.

## Features

- Wide dose and dose rate measurement ranges
- Easily replaceable long-life AAA battery: 500 hours
- Measurement of pulsed photon radiation
- Simple navigation with two large buttons
- Audible, visual, and vibration alarms
- USB-C communication with PC
- Shockproof hermetic case
- Small and lightweight



# PoliSimeter™ ER Electronic Personal Dosimeter



X-ray (continuous/pulsed) and gamma radiation personal dosimeter with an **extended range** of dose measurement.

**PoliSimeter™ series** of electronic personal dosimeters (EPDs) is the **next generation** of the well-known **PM1610 series** by Polimaster, which was a trusted solution on the market for nearly 15 years, with over 20,000 dosimeters sold. Building on the legacy of the PM1610, the PoliSimeter offers enhanced capabilities for the extended measurement of **personal dose Hp(10)** and **dose rate  $\dot{H}_p(10)$**  of both continuous and pulsed X-ray and gamma radiation. The PoliSimeter is designed to meet the latest industry requirements and features a USB-C port for convenient connectivity and data transfer.

**PoliSimeter ER** model has an **extended range** of dose measurement of **up to 20 Sv** for use in high-radiation environments, providing critical safety and monitoring functionality.

## Features

- Wide dose and dose rate measurement ranges
- Long-life rechargeable battery: 500 hours
- Measurement of pulsed photon radiation
- Simple navigation with two large buttons
- Audible, visual, and vibration alarms
- USB-C communication with PC
- Shockproof hermetic case
- Small and lightweight



## PoliSimeter™ Electronic Personal Dosimeter



X-ray (continuous/pulsed) and gamma radiation personal dosimeter.

**PoliSimeter™ series** of electronic personal dosimeters (EPDs) is the **next generation** of the well-known **PM1610 series** by Polimaster, which was a trusted solution on the market for nearly 15 years, with over 20,000 dosimeters sold. Building on the legacy of the PM1610, the PoliSimeter offers enhanced capabilities for the extended measurement of **personal dose Hp(10)** and **dose rate  $\dot{H}_p(10)$**  of both continuous and pulsed X-ray and gamma radiation. The PoliSimeter is designed to meet the latest industry requirements and features a USB-C port for convenient connectivity and data transfer.

### Features

- Wide dose and dose rate measurement ranges
- Long-life rechargeable battery: 500 hours
- Measurement of pulsed photon radiation
- Simple navigation with two large buttons
- Audible, visual, and vibration alarms
- USB-C communication with PC
- Shockproof hermetic case
- Small and lightweight



## RadFlash® Electronic Personal Dosimeter



With RadFlash, the instant your radiation exposure increases, you know it. Continuous monitoring and custom alerts provide immediate, precise feedback, empowering you to react in-the-moment to changes in your exposure environment.

The dosimeter is capable of solving a wide range of personal dose monitoring tasks, including measurement of personal dose equivalent  $H_p(10)$  and personal dose equivalent rate  $\dot{H}_p(10)$  of X-ray (continuous and pulsed) and gamma radiation.

Only the best instant monitoring and alerts provide the safety professionals deserve. The RadFlash electronic personal dosimeter gives you immediate feedback, high precision, and unmatched flexibility. It's the perfect tool for minimizing risk and maximizing confidence.

### Features

- Independent alarm thresholds for both dose and dose rate
- Automatic calculation of the safe stay time in the Polismart® app
- Compatible with real-time dosimetry systems
- Miniature, lightweight design
- Intuitive single-control button
- Bluetooth integration
- Wireless charging

# PORTABLE ISOTOPE IDENTIFIERS





# PM1401K-3M Multipurpose Hand-Held Radiation Monitor/Identifier

PM1401K-3M model is a gamma-only radiation monitor without a neutron detector which is designed for quick and reliable measurement of gamma dose rate, detection of alpha, beta, and gamma sources, measurement of alpha and beta radiation flux density, acquisition of gamma spectra, identification of radioisotopes, and measurement of food/soil contamination with  $^{137}\text{Cs}$

## Features

- Storage of up to 10000 events and 1000 spectra
- Audible, visual and external vibration alarm
- Categorization of identified radionuclides
- Shock and water resistant IP65 case
- Adjustable radionuclide libraries
- USB communication with PC
- Built-in GPS module

## Applications

- Customs and border control
- HAZMAT and CBRNe teams
- Emergency services
- Police and security
- Industrial facilities
- First responders







# PM1401K-3P Multipurpose Hand-Held Radiation Monitor/Identifier

Gamma-neutron model suitable for various radiation control tasks.

The **PM1401K-3 series** of radiation monitors comprises a wide range of all-in-one devices for radiation detection, dose rate, contamination measurements, spectrometry, and radionuclide identification.

The **PM1401K-3P model** is the **gamma-neutron model** suitable for various radiation control tasks, including measurement of ambient dose equivalent rate, detection of alpha, beta, gamma, and neutron sources, measurement of alpha and beta radiation flux density, acquisition of gamma spectra, identification of radioisotopes, and measurement of food/soil contamination with  $^{137}\text{Cs}$ .

## Features

- Storage of up to 10000 events and 1000 spectra
- Audible, visual, and external vibration alarm
- Categorization of identified radionuclides
- Shock and water-resistant IP65 case
- Adjustable radionuclide libraries
- USB communication with PC
- Built-in GPS module

## Operation principle

The PM1401K-3P continuously measures ambient dose equivalent rate  $\dot{H}^*(10)$  of photon radiation in the wide energy range, detects alpha, beta, gamma, and neutron radiation, measures alpha and beta radiation flux density, operates as a gamma radiation spectrometer and radioisotope identifier, and measures food/soil contamination with  $^{137}\text{Cs}$  radionuclide.



# PORTAL MONITORS



## Poligate Light G1 RPM



Lightweight one-sided model equipped with one gamma detector.

The **PoliGate™ Light G1** is a one-sided **gamma-only** Radiation Portal Monitor (RPM) equipped with one detector and is a **high-sensitive fixed system** designed for permanent installation and providing continuous radiation detection and monitoring of vehicles, people, or packages.

The **PoliGate™ Light series** is a simplified series of Polimaster RPMs that is available in a **more compact and lightweight design** and its detection blocks can be mounted on a frame or wall.

### Features

- Lightweight design
- Control zone up to 1.5 m x 2 m (W x H)
- Wide gamma energy range from 20 keV to 3 MeV
- No stop of an object is required for the inspection
- Lead shielding for natural background rejection
- Ingress protection IP55
- Local and remote light and audible alarm annunciators
- Back-up battery providing at least 8 hours of operation
- Presence detection system (occupancy sensors)
- Adjustable sensitivity parameters for specific applications
- Optional video surveillance system



## PoliGate™ Vehicle G4 RPM



Double-sided gamma model equipped with four gamma detectors.

The **PoliGate™ Vehicle G4** is a double-sided **gamma-only** Radiation Portal Monitor (RPM) equipped with four 11L-gamma detectors and is a **high-sensitive fixed system** designed for permanent installation and providing continuous radiation detection and monitoring of moving objects.

The **PoliGate™ Vehicle series** is an essential tool for safeguarding against the potential threat of nuclear materials entering secure areas and can be used for screening **trains, trucks, vehicles, cargo containers, luggage, and people**.

### Features

- IEC 62244:2019 compliance
- Control zone up to 6 x 4.5 (W x H)
- Wide gamma energy range from 20 keV to 3 MeV
- No stop of an object is required for the inspection
- Lead shielding for natural background rejection
- Ingress protection IP65
- Local and remote light and audible alarm annunciators
- Back-up battery providing at least 8 hours of operation
- Presence detection system (occupancy sensors)
- Adjustable sensitivity parameters for specific applications
- Optional video surveillance system



## PoliGate™ Pedestrian G1 RPM



One-sided gamma model equipped with one (11L) gamma detector.

The **PoliGate™ Pedestrian G1** is a one-sided **gamma-only** Radiation Portal Monitor (RPM) equipped with one 11L-gamma detector and one neutron detector and is a **high-sensitive fixed system** designed for permanent installation and monitoring of people or packages for the presence of radioactive materials.

The **PoliGate™ Pedestrian series** is an essential component of any facility that requires strict security measures, including government buildings, research facilities, and nuclear power plants. The compact and ergonomic design of the RPM makes it a convenient solution for use in various applications for screening **people, luggage, and cargo**.

### Features

- IEC 62244:2019 compliance
- Control zone up to 1.5 x 2 (W x H)
- Wide gamma energy range from 20 keV to 3 MeV
- No stop of an object is required for the inspection
- Lead shielding for natural background rejection
- Ingress protection IP65
- Local and remote light and audible alarm annunciators
- Back-up battery providing at least 8 hours of operation
- Presence detection system (occupancy sensors)
- Adjustable sensitivity parameters for specific applications
- Optional video surveillance system



## PoliGate™ Pedestrian GN2 RPM



Double-sided gamma-neutron model equipped with two gamma (6.6L each) and two neutron detectors.

The **PoliGate™ Pedestrian GN2** is a double-sided **gamma-neutron** Radiation Portal Monitor (RPM) equipped with two 6.6L-gamma and one neutron detector and is a **high-sensitive fixed system** designed for permanent installation and monitoring of people or packages for the presence of radioactive materials.

The **PoliGate™ Pedestrian series** is an essential component of any facility that requires strict security measures, including government buildings, research facilities, and nuclear power plants. The compact and ergonomic design of the RPM makes it a convenient solution for use in various applications for screening **people, luggage, and cargo**.

### Features

- IEC 62244:2019 compliance
- Control zone up to 1.5 x 2 (W x H)
- Wide gamma energy range from 20 keV to 3 MeV
- No stop of an object is required for the inspection
- Lead shielding for natural background rejection
- Ingress protection IP65
- Local and remote light and audible alarm annunciators
- Back-up battery providing at least 8 hours of operation
- Presence detection system (occupancy sensors)
- Adjustable sensitivity parameters for specific applications
- Optional video surveillance system



## Poligate Light G2 RPM



Lightweight double-sided model equipped with two gamma detectors.

The **PoliGate™ Light G2** is a double-sided **gamma-only** Radiation Portal Monitor (RPM) equipped with two detectors and is a high-sensitive fixed system designed for permanent installation and providing continuous radiation detection and monitoring of vehicles, cargo containers, people, or packages.

The **PoliGate™ Light series** is a simplified series of Polimaster RPMs that is available in a **more compact and lightweight design** and its detection blocks can be mounted on a frame or wall.

### Features

- Lightweight design
- Control zone up to 6 m x 2 m (W x H)
- Wide gamma energy range from 20 keV to 3 MeV
- No stop of an object is required for the inspection
- Lead shielding for natural background rejection
- Ingress protection IP55
- Local and remote light and audible alarm annunciators
- Back-up battery providing at least 8 hours of operation
- Presence detection system (occupancy sensors)
- Adjustable sensitivity parameters for specific applications
- Optional video surveillance system



## Poligate Light G4 RPM



Lightweight double-sided model equipped with four gamma detectors.

The **PoliGate™ Light G4** is a double-sided **gamma-only** Radiation Portal Monitor (RPM) equipped with four detectors and is a high-sensitive fixed system designed for permanent installation and providing continuous radiation detection and monitoring of vehicles, cargo containers, people, or packages.

The **PoliGate™ Light series** is a simplified series of Polimaster RPMs that is available in a **more compact and lightweight design** and its detection blocks can be mounted on a frame or wall.

### Features

- Lightweight design
- Control zone up to 6 m x 4.5 m (W x H)
- Wide gamma energy range from 20 keV to 3 MeV
- No stop of an object is required for the inspection
- Lead shielding for natural background rejection
- Ingress protection IP55
- Local and remote light and audible alarm annunciators
- Back-up battery providing at least 8 hours of operation
- Presence detection system (occupancy sensors)
- Adjustable sensitivity parameters for specific applications
- Optional video surveillance system





## Poligate Pedestrian GN1 RPM



One-sided gamma-neutron model equipped with one gamma (6.6L) and one neutron detector.

The **PoliGate™ Pedestrian GN1** is a one-sided **gamma-neutron** Radiation Portal Monitor (RPM) equipped with one 6.6L-gamma and one neutron detector and is a **high-sensitive fixed system** designed for permanent installation and monitoring of people or packages for the presence of radioactive materials.

The **PoliGate™ Pedestrian series** is an essential component of any facility that requires strict security measures, including government buildings, research facilities, and nuclear power plants. The compact and ergonomic design of the RPM makes it a convenient solution for use in various applications for screening **people, luggage, and cargo**.

### Features

- IEC 62244:2019 compliance
- Control zone up to 1.5 x 2 (W x H)
- Wide gamma energy range from 20 keV to 3 MeV
- No stop of an object is required for the inspection
- Lead shielding for natural background rejection
- Ingress protection IP65
- Local and remote light and audible alarm annunciators
- Back-up battery providing at least 8 hours of operation
- Presence detection system (occupancy sensors)
- Adjustable sensitivity parameters for specific applications
- Optional video surveillance system



## Poligate Deployable RPM



Gamma-only model transported in plastic protective cases and designed for fast deployment.

The **PoliGate™ Deployable** is a **gamma-only** Radiation Portal Monitor (RPM) highly sensitive **deployable radiation monitor** designed to detect radioactive and nuclear materials transported through a controlled area.

This fast deployable RPM is designed to provide high mobility and flexibility, allowing it to be used in various settings to **screen individuals, vehicles, or cargo at the scene of an incident or in temporary screening situations** such as at major public mass events.

### Features

- No stop of an object is required for the inspection
- Lead shielding for natural background rejection
- Wide gamma energy range from 30 keV to 3 MeV
- Local and remote light and audible alarm annunciators
- Back-up battery providing at least 8 hours of operation
- Presence detection system (occupancy sensors)
- Adjustable sensitivity parameters for specific applications
- Optional video surveillance system
- Optional Ethernet / Wi-Fi connection



## Poligate Pedestrian G2 RPM



Double-sided gamma model equipped with two (11L each) gamma detectors.

The **PoliGate™ Pedestrian G2** is a double-sided **gamma-only** Radiation Portal Monitor (RPM) equipped with two 11L-gamma detectors and is a **high-sensitive fixed system** designed for permanent installation and monitoring of people or packages for the presence of radioactive materials.

The **PoliGate™ Pedestrian series** is an essential component of any facility that requires strict security measures, including government buildings, research facilities, and nuclear power plants. The compact and ergonomic design of the RPM makes it a convenient solution for use in various applications for screening **people, luggage, and cargo**.

### Features

- IEC 62244:2019 compliance
- Control zone up to 1.5 x 2 (W x H)
- Wide gamma energy range from 20 keV to 3 MeV
- No stop of an object is required for the inspection
- Lead shielding for natural background rejection
- Ingress protection IP65
- Local and remote light and audible alarm annunciators
- Back-up battery providing at least 8 hours of operation
- Presence detection system (occupancy sensors)
- Adjustable sensitivity parameters for specific applications
- Optional video surveillance system



## Poligate Vehicle G4N4 RPM



Double-sided gamma-neutron model equipped with four gamma and four neutron detectors.

The **PoliGate™ Vehicle G4N4** is a double-sided **gamma-neutron** Radiation Portal Monitor (RPM) equipped with four 11L-gamma and four neutron detectors and is a **high-sensitive fixed system** designed for permanent installation and providing continuous radiation detection and monitoring of moving objects.

The **PoliGate™ Vehicle series** is an essential tool for safeguarding against the potential threat of nuclear materials entering secure areas and can be used for screening **trains, trucks, vehicles, cargo containers, luggage, and people**.

### Features

- IEC 62244:2019 compliance
- Control zone up to 6 x 4.5 (W x H)
- Wide gamma energy range from 20 keV to 3 MeV
- No stop of an object is required for the inspection
- Lead shielding for natural background rejection
- Ingress protection IP65
- Local and remote light and audible alarm annunciators
- Back-up battery providing at least 8 hours of operation
- Presence detection system (occupancy sensors)
- Adjustable sensitivity parameters for specific applications
- Optional video surveillance system



## Poligate Vehicle G2 RPM



Double-sided gamma model equipped with two gamma detectors.

The **PoliGate™ Vehicle G2** is a double-sided **gamma-only** Radiation Portal Monitor (RPM) equipped with two 11L-gamma detectors and is a **high-sensitive fixed system** designed for permanent installation and providing continuous radiation detection and monitoring of moving objects.

The **PoliGate™ Vehicle series** is an essential tool for safeguarding against the potential threat of nuclear materials entering secure areas and can be used for screening **trucks, vehicles, cargo containers, luggage, and people**.

### Features

- IEC 62244:2019 compliance
- Control zone up to 6 x 2 (W x H)
- Wide gamma energy range from 20 keV to 3 MeV
- No stop of an object is required for the inspection
- Lead shielding for natural background rejection
- Ingress protection IP65
- Local and remote light and audible alarm annunciators
- Back-up battery providing at least 8 hours of operation
- Presence detection system (occupancy sensors)
- Adjustable sensitivity parameters for specific applications
- Optional video surveillance system



# RADIATION MOBILE DETECTION SYSTEMS



## PoliGate™ Mobile MDS



Vehicle-based radiation portal monitors for detection on the go.

The **PoliGate™ Mobile MDS** is a complex solution designed for the **automatic scanning of fixed or mobile objects** to detect illicit trafficking of radioactive substances and materials. The vehicle-integrated system is highly customizable and available in numerous modifications to cater to the specific requirements of the customers. The vehicle model used for the MDS can differ depending on the needs of the user.

When it comes to securing borders, emergency response, and any situation where rapid response is vital, the PoliGate™ Mobile is a game-changer. Its mobile design allows for **quick deployment at strategic locations**, enabling an efficient inspection (detection, localization, measurement, and identification) of vehicles, cargo, and pedestrians for potential radioactive threats in any place.



## PoliPack® G-S Backpack Radiation Detector



Spectroscopic Gamma-only Backpack Radiation Detector.

The **PoliPack® G-S** is a **gamma-only** Backpack-Based Radiation Detection System (BRD) equipped with spectroscopic gamma detectors for identifying radionuclides. It is carried in a compact backpack and controlled remotely via the wired control unit or a smartphone with the free Polismart® iOS and Android App.

The **PoliPack® BRDs** are rugged, lightweight, and fast-deploying devices that provide prompt and reliable detection, location, and identification of multiple and masked isotopes. The device is ideal for undercover radiation surveys in crowded areas, addressing the problems of orphaned and maliciously introduced sources and ensuring security before and during mass events. Radionuclides libraries are uploaded in the BRD and can be customized by users.





## PoliPack® GN Backpack Radiation Detector



Gamma-Neutron Backpack Radiation Detector.

The **PoliPack® GN** is a **gamma-neutron** Backpack-Based Radiation Detection System (BRD) equipped with a highly sensitive portable radiation monitor carried in a compact backpack and controlled remotely via the wired control unit or a smartphone with the free Polismart® iOS and Android App.

The **PoliPack® BRDs** are rugged, lightweight, and fast deployable devices that provide prompt and reliable detection, location, and identification of multiple and masked isotopes. The device is ideal for undercover radiation surveys in crowded areas, addressing the problems of orphaned and maliciously introduced sources and ensuring security before and during mass events.



## PoliPack® G Backpack Radiation Detector



Gamma-only Backpack Radiation Detector.

The **PoliPack® G** is a **gamma-only** Backpack-Based Radiation Detection System (BRD) equipped with a highly sensitive portable radiation monitor carried in a compact backpack and controlled remotely via the wired control unit or a smartphone with the free Polismart® iOS and Android App.

The **PoliPack® BRDs** are rugged, lightweight, and fast-deploying devices that provide prompt and reliable detection, location, and identification of multiple and masked isotopes. The device is ideal for undercover radiation surveys in crowded areas, addressing the problems of orphaned and maliciously introduced sources and ensuring security before and during mass events.



## PoliPack® GN-S Backpack Radiation Detector



Spectroscopic Gamma-Neutron Backpack Radiation Detector.

The **PoliPack® GN-S** is a **gamma-neutron** Backpack-Based Radiation Detection System (BRD) equipped with **spectroscopic** gamma detectors for identifying radionuclides. It is carried in a compact backpack and controlled remotely via the wired control unit or a smartphone with the free Polismart® iOS and Android App.

The **PoliPack® BRDs** are rugged, lightweight, and fast deployable devices that provide prompt and reliable detection, location, and identification of multiple and masked isotopes. The device is ideal for undercover radiation surveys in crowded areas, addressing the problems of orphaned and maliciously introduced sources and ensuring security before and during mass events. Radionuclides libraries are uploaded in the BRD and can be customized by users.

