

RADIATION MOBILE DETECTION SYSTEMS



Table of contents

Polimaster	3
PoliGate™ Mobile MDS	4
PoliPack® G-S Backpack Radiation Detector	5
PoliPack® GN Backpack Radiation Detector	6
PoliPack® G Backpack Radiation Detector	7
PoliPack® GN-S Backpack Radiation Detector	8
Else Nuclear	8
SATURN 5702	10
BSI	10
Mobile Radiation Monitor GammaCART	12



Product offering

PoliGate™ Mobile MDS



PoliPack® G-S Backpack Radiation Detector



PoliPack® GN Backpack Radiation Detector



PoliPack® G Backpack Radiation Detector



PoliPack® GN-S Backpack Radiation Detector





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.





Partner **Else Nuclear**



Product offering

SATURN 5702





SATURN 5702

SATURN 5702 is a mobile station equipped with two detectors for gamma and neutron dose rate monitoring. The station includes:

- Ion-chamber-based gamma radiation monitoring unit: ICP-T or ICP-T-PF
- Neutron rem counter for pulsed fields: LUPIN BF3



The detectors and the electronics are housed in a trolley-mounted mechanical structure. The height of the trolley can be customized according to the customer needs, for example to centre the detectors with the beam line height.

Each detector can be removed from the trolley to be employed remotely, up to 20 m. An ALU alarm column is mounted on the top, providing luminous and acoustic warning signals related to the status of the mobile station (good functioning, pre-alarm and alarm). SATURN 5702 stations can also manage external devices through 4 sets of relay contacts.

The detectors are connected via external cables to a standard 19" electronics rack equipped with two dedicated SATURN ratemeter units (rack version). Each ratemeter features a display, 3 function keys with status LEDs, and a connector for TOUCHKEY2 external keyboard.

SATURN 5702 can be connected to a remote host PC running a data management software (5700 sMON) through ETH or RS485/422 connection.



Partner **BSI**



Product offering

**Mobile Radiation
Monitor GammaCART**





Mobile Radiation Monitor GammaCART

Application

Mobile spectrometric system Mobile Radiation Monitor is designed to measure gamma radiation energy distribution, identify gamma emitting radionuclides, as well as calculate specific and surface activity of gamma emitting radionuclides under conditions of their natural occurrence and at nuclear industry premises. In addition, the system can be used for radiation monitoring, e.g., for examination of large areas, searching lost or stolen gamma radiation sources, study of radionuclide precipitation near radiation hazardous sites without preliminary sampling.



COMPLETE SET

- Electric vehicle as a mobile platform
- Gamma radiation spectrometer containing:
 - Gamma radiation detector(s);
 - Multichannel channel analyzer Polynom;
- Thermostabilization system (for NaI(Tl) or LaBr₃(Ce) detectors) containing:
 - Thermostabilizing housing with a built-in heat exchanger
 - Cooling and heating system box;
 - Hoses for circulation of the cooling liquid;
- Navigation system including a external antenna;
- Shockproof toughbook operable in harsh conditions;
- Router with antenna which provides connection between the analyzer, navigation system and toughbook;
- Fixation and positioning system for the detection units;
- Charger for the electric vehicle.