

RADIATION MOBILE DETECTION SYSTEMS



Table of contents

Else Nuclear	3
SATURN 5702	4
Polimaster	4
PoliGate™ Mobile MDS	6
PoliPack® G-S Backpack Radiation Detector	7
PoliPack® GN Backpack Radiation Detector	8
PoliPack® G Backpack Radiation Detector	9
PoliPack® GN-S Backpack Radiation Detector	10



Partner **Else Nuclear**



ELSE NUCLEAR S.r.l. is an Italian OEM company specializing in advanced radiation-detection and environmental-monitoring systems for nuclear safety, industry and research.

Product offering



← [Back to partner](#)



Radiation Detection > Environmental Monitoring

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 **Polimaster**



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.

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



← [Back to partner](#)



Radiation Detection > 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.



← [Back to partner](#)



Radiation Detection > Handheld Monitors

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.



← [Back to partner](#)



Radiation Detection > Handheld Monitors

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.



← [Back to partner](#)



Radiation Detection > Handheld Monitors

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.



← [Back to partner](#)



Radiation Detection > Handheld Monitors

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.

